



Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): August 19, 2014

Lab Report ID: 14081392

Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS (TCLP)
SVOCs by GCMS (TCLP)
Herbicides (TCLP)
PCB Analysis
Pesticide Analysis (TCLP)
Mercury Analysis (TCLP)
Metals by ICP (TCLP- RCRA)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Jan Pfelger

Dan Pfalzer Laboratory Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 14081392) consists of 4 soil samples received on 08/19/2014. The samples are from Project Name: ALCO.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	Client ID	Collection Date
AR27915	D-01-A	08/19/2014 09:20
AR27916	D-01-B	08/19/2014 09:25
AR27917	D-02	08/19/2014 09:30
AR27918	D-03	08/19/2014 10:05

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 08/19/2014.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Herbicide Analysis (TCLP)

Analysis for herbicides was performed by EPA 1978 pg.115. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see form for details.

Pesticide Analysis (TCLP)

Analysis for pesticides was performed by method SW-846 8081B. Samples were extracted by USEPA SW-846 Method 3535A Solid Phase Extraction. One-liter water samples were extracted by PACE SOP NE178_04. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Metals Analysis by ICP

Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Respectfully submitted,

Kelly A. miller

Kelly A. Miller

Project Manager

QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate recovery not evaluated against control limits due to sample dilution.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

Inorganic Laboratory Qualifiers

- B Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY





CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

www.pacelabs.com				_ Pr.	
Section A Required Client Information:	Section B Required Project Information:		Section C	- 000 Maga	age: / of /
Company and basistice	Report To: Nother Sh	. Flor	Invoice Information: Attention:	$-\sqrt{900}$ [1852123
Address: 10 Airly Dorice	Copy To: And By	rber	Company Name: Diff	REGULATORY AGENC	
Swite 200	7		Address: SINTOCOLO,		DUND WATER DRINKING WATER
Phone: Fax:	Purchase Order No.: Project Name:		Pace Quote Reference: Battle 3724	UST RCR	A OTHER
Phone: 5/8 2/8/80 Fax: Requested Due Date/TAJ:	7+1C(Pace Project Manager: Kelly Miller Pace Profile #:	Site Location	u l
Standard IA	1368	?.001,001		STATE:	
Section D Matrix C	codes 🗊 🙃			ested Analysis Filtered (Y/N)	
Required Client Information MATRIX / Drinking Wate	CODE COME TO DW C	COLLECTED	Preservatives >		
Water Waste Water	CODE NAME OF STREET OF STR	MPOSITE COMPOSITE LART END/GRAB			
Product Soil/Solid SAMPLE ID Oil	(G=GRAB	OLL EMPLOYEE			(X/X)
(A-Z, 0-9 / ,-) Wipe Air	WP 9		CONTAINERS SSERVED 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Sample IDs MUST BE UNIQUE Tissue Other	AR ST	TEMP	sis T		Chlorine
# # # # # # # # # # # # # # # # # # #	MATRIX SAMPLE T	TIME DAJE TIME S	# OF CONTAIN Unpreserved H ₂ SO ₄ HNO ₃ HCI NaOH Na ₂ S ₂ O ₃ Methanol Other # Analysis Te		Pace Project No / Lab I D
1 D-01-A					Pace Project No./ Lab I.D.
2 D-01-R	SL 6	8/18/9/20	2 x × × ×	AR279 15	secattacked lists
3 D-02	SLG	8/19 9:30	2 x x x x	AR 27916	TC11-8260-8270
4 D-03	546	\$ 19 10:05	2	AR27918	regular PCB
5				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s
7					
8					
9					
10					
11					
12 ADDITIONAL COMMENTS	RELINQUISHED BY	/ ANTFILLATION DATE	TIME ACCEPTED BY / AFFII (ATIC		
	Mark H	5/10	12:54 May MM		SAMPLE CONDITIONS
	Mul-le	10 10	121111111111	8/19/14/2:54	8.4 A N
	NO IS A I	SAMPLER NAME AND SIGNATURE			
OH	IIGINAL		Vertley Sharth		Received on Ice (Y/N) Custody sealed Cooler (Y/N)
		SIGNATURE of SAMPLER:	AAA AAA (MM/DDY	ned 8/19/2014	Received oo Ice (Y/N) Custody Sealed Cool (Y/N) (Y/N) Samples Inta
Pace Analytical Services, Inc.	g Pace's NET 30 day payment terms	and agreeing to late charges of 1.5% per months	gust Regides het paid within 30 days.	" 1 1/2019	F-ALL-Q-020rev 14081May-2007ge 10 of 68



Sample Condition Upon Receipt

<14081392P2>

	Client ⊄	Pace □	Othe			CLIENT NA PROJECT :		cr-Alb	140313922
PACKING MATERIAL: Bubble Wrap	 Bubble Ba Gun 03 □ No □		None □ 37967 □	ESENT: Yes Other	COOLER TE	ICE USED: MPERATUI Temp shou	RE (6°C): _	No □ Blue □ %, Ӌ e freezing to 6°	N/A ⊭ None □
Chain of Custody Present:	v ⊅Yes	□No		1.	COMMITTER	<u>. </u>			
Chain of Custody Filled Out:	Yes	□No		2.		<u></u>			
Chain of Custody Relinquished:	Øres	□No		3.					
Sampler Name / Signature on COC:	√⊋Yes	□No		4.					
Samples Arrived within Hold Time:	Yes	□No	· · · · · · · · · · · · · · · · · · ·	5.					
Short Hold Time Analysis (<72hr):	□Yes	⊠No		6.					
Rush Turn Around Time Requested:	□Yes	Mo		7.		 	····	**	
Sufficient Volume:	`\QYes	□No		8.					
Correct Containers Used:	XÍYes	□No	· · · · · · · · · · · · · · · · · · ·	9.	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
- Pace Containers Used:	†⊠xes	□No			, y				
Containers Intact:	¥Ziyes	□No		10.				**	
iltered volume received for Dissolved test	s: □ _{Yes}	□No	₹N/A	11.		-			
ample Labels match COC: - Includes date/time/ID/Analysis	r≸Yes	□No	/GERNIA	12.		· · · · · · · · · · · · · · · · · · ·			
All containers needing preservation have been checked:	n □Yes	□No	D\$n/A	13.					
All containers needing preservation are in compliance with EPA recommendation:	□Yes	□No	S ÁN/A	Initial when	1		Lot # of a	idded preserva	Air
- Exceptions that are not checked: VOA				completed:			LU(#U) a	H	tive:
eadspace in VOA Vials (>6mm):	□Yes	□No	¥ŠÎN/A	14.					
rip Blank Present:	□Yes	□No	¥QN/A	15.			····		
rip Blank Custody Seals Present: ace Trip Blank Lot #:	□Yes	□No	ØN/A						
		Line-Out Log In (In	(Includes Co cludes notif	pying Shippin ying PM of an	g Documents y discrepacies	and verify s and docu	ing sample menting in	pH):	N 8/19/14 DB 8/19/19

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

<14U81	392P3>
140913923	

Maximum Concentration of Contaminates	of Contaminates	
Contaminant	Regulatory Limit (mg/L)	
Arsenic	5.00	
Barium	100.00	
Benzene	0.50	.,
Cadmium		
Carbon Tetrachloride	0.50	
Chlordane	0.03	
Chlorobenzene	100.00	
Chloroform	- 00.9	
Chromium	2.00 /	
o-Cresol	200.00	
m-Cresol	200.00	<u>ر</u>
p-Cresol	C200.00	多
Cresol	200.00	当門
2,4 - D	10.00	
1,4 - Dichlorobenzene	7.50 ~	
1,2 - Dichloroethane	0.50	
1,1 - Dichloroethylene	0.70	
2,4 - Dinitrotoluene	0.13	
Endrin		•
Heptachlor		
Hexachlorobenzene	0.13	<u>ş</u>
Hexachloro-1, 3-butadiene	0.50	
Hexachloroethane	3.00	
Lead	5.00	
Lindane	0.40	
Mercury	0.20	
Methoxychlor	10.00	
Methyl Ethel Ketone	200.00	
Nitorbenzene	2.00 –	
Pentachlorophenol	100.00	
Pyridine	5.00	
Selenium	1.00	
Silver	5.00	
Tetrachloroethylene	0.70	
Toxaphene	0.50	
Trichloroethylene	0.50 ==	
2,4,5-Trichlorophenol	400.00	
2,4,6 - Trichlorophenol	2.00 ~	
2,4,5 - TP (silvex)	1.00 ~	
Vinyl chloride	0.20	



Constituent	Testing Methodology I	Lab Level	Reg. I evel
Metals			(ma/l)
I. Arsenic	TCLP EPA Method 6010		(11/g/L)
2. Barium	TCLP EPA Method 6010		100.00
3. Cadmium	TCLP EPA Method 6010		1 00
4. Chromium	TCLP EPA Method 6010		5.00
5. Lead	TCLP EPA Method 6010		\$ 00
6. Mercury	TCLP EPA Method 7470		0.50
/. Selenium	TCLP EPA Method 6010		00 1
8. Silver	TCLP EPA Method 6010		5.00
Volatiles			00.0
1. Benzene	TCLP EPA Method 8260		(mg/L)
2. Carbon Tetrachloride	TCLP EPA Method 8260		0.50
3. Chlorobenzene	TCLP EPA Method 8260		0.50
4. Chloroform	TCLP EPA Method 8260		100.00
5. 1,2 Dichloroethane	TCLP EPA Method 8260		6.00
6. 1,1 Dichloroethylene	TCLP EPA Method 8260		0.50
7. Methyl ethyl ketone	TCI P FPA Method 8260		0.70
8. Tetrachloroethylene	TCI P FPA Mathod 9260		200.00
9. Trichloroethylene	TCL DEDA Mater 1 0200		0.70
10. Vinyl Chloride	TCI D EDA Mate a 6200		0.50
Semi Voletilos	1070 POINTER TO THE TOTAL		0.20
Com volames			(mg/L)
I. 0-Cresol	TCLP EPA Method 8270		200 00
2. m-Cresol	TCLP EPA Method 8270		200.00
5. Cresol (Total)	TCLP EPA Method 8270		200.00
4. 1,4-Dichlorobenzene	TCLP EPA Method 8270		2.00.00
5. 2,4-Dinitrotoluene	TCLP EPA Method 8270		05.7
6. Hexachlorobenzene	TCLP EPA Method 8270		0.13
7. Hexachlorobutadiene	TCLP EPA Method 8270		0.13
8. Hexachloroethane	TCLP EPA Method 8270		0.50
9. Nitrobenzene	TCLP EPA Method 8270		3.00
10. Pentrachlorophenol	TCLP EPA Method 8270		2.00
11. Pyridine	TCLP FPA Method 8270		100.00
12. 2,4,5-Trichlorophenol	TCLP EPA Method 8270		5.00
13. 2,4,6-Trichlorophenol	TCLP EPA Method 8270		400.00
Pesticides & Harbicidae	0/70 00000		2.00
1. Chlordane			(mg/L)
2. Endrin	TCLF EPA Method 8081		0.03
3 Hentachlor	TCLF EFA Method 8081		0.02
4 Hentachlor Enovide	ICLF EPA Method 8081		0.008
S Lindang (Common Price)	ICLP EPA Method 8081		0.008
6 Methovochlor	TCLP EPA Method 8081		0.40
Toyanhana (Chlomonana)	1 CLP EPA Method 8081		10.00
8. 2.4 - D	TCLP EPA Method 8081		0.50
9 2 4 5 _ TP (Silvay)	ICLP EPA Method 8151		10.00
r,5 – ti (Silvex)	TCLP EPA Method 8151		1.0
Folychlorinated Biphenyls		00	COA Limit (µg/Kg)
. Aroclor 1016	EPA Method 8082	(Dase	(Dased on dry weight)
2. Aroclor 1221	EPA Method 8082		<pql< td=""></pql<>
3. Aroclor 1232	EPA Method 8082		<pql< td=""></pql<>
4. Aroclor 1242	EPA Method 8082		<pql< td=""></pql<>
5. Aroclor 1248	EPA Method 8082		<pql< td=""></pql<>
6. Aroclor 1254	FPA Mathod 9002		<pql< td=""></pql<>
	THE TAIL BOOK		
7. Aroclor 1260	DDA 14 1 10000		<pql< td=""></pql<>

SAMPLE RECEIPT



SAMPLE RECEIPT REPORT 14081392

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE

PROJECT: ALCO LRF: 14081392

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: 7 DAYS RECEIVED DATE: 08/19/2014 12:54

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,2}SAMPLES PRESERVED PER METHOD GUIDANCE: YES ³ SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID: N. SHAFFER/ BAR-ALB

NUMBER OF COOLERS: 1 CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED

TEMPERATURE(S): ⁵8.4 °C

DISPOSAL: BY LAB (45 DAYS) **COC DISCREPANCY: NO**

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-01-A (AR27915)	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
D-01-B (AR27916)	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
D-02 (AR27917)	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
D-03 (AR27918)	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	

The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.

Reporting Parameters and Lists

EPA 1978 p.115 - Herbicides (TCLP) - (ug/L)

2.4.5-TP.SILVEX 2,4-D

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)

Arsenic Barium

Cadmium Chromium

Lead Selenium EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)

Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)

Mercury

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Page 1 of 2

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

3 Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it ais not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such. Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.





SAMPLE RECEIPT REPORT 14081392

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Continued...

EPA 8081B - Pesticide Analysis (TCLP) - (ug/L)

Chlordane Endrin

gamma-BHC

Heptachlor

Heptachlor Epoxide

Methoxychlor

Toxaphene

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242 Aroclor 1248

Aroclor 1254

Aroclor 1260

Total PCB Amount > RL

EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)

1,1-Dichloroethene

1,2-Dichloroethane

2-Butanone

Benzene

Carbon Tetrachloride

Chlorobenzene

Chloroform

Tetrachloroethene

Trichloroethene

Vinyl Chloride

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)

1,4-Dichlorobenzene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,4-Dinitrotoluene

Hexachlorobenzene

Hexachlorobutadiene

Hexachloroethane

m&p-Methylphenol

Nitrobenzene

o-Methylphenol

Pentachlorophenol

Pyridine

GC/MS Volatiles



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-A

Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

F	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
	IS10-216-28	EPA 8260C - TCLP-ZHE SW-846		RMS	NA	NA NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,1-Dichloroethe	ene	75-35-4	ND	10.0	10.0	U	MS10-216-28
1,2-Dichloroetha	ine	107-06-2	ND	10.0	10.0	U	MS10-216-28
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-216-28
Benzene		71-43-2	ND	10.0	10.0	U	MS10-216-28
Carbon Tetrachlo	oride	56-23-5	ND	10.0	10.0	U	MS10-216-28
Chlorobenzene		108-90-7	ND	10.0	10.0	U	MS10-216-28
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-216-28
Tetrachloroethen	ne	127-18-4	ND	10.0	10.0	U	MS10-216-28
Trichloroethene		79-01-6	ND	10.0	10.0	U	MS10-216-28
Vinyl Chloride		75-01-4	ND	10.0	10.0	U	MS10-216-28
				т.	•,		
Surrogate		CAS No.	% Recovery	Lin (%		\mathbf{Q}^1	File ID
4-Bromofluorobe	onzono	460-00-4	93.7		-128	<u> </u>	MS10-216-28
Dibromofluorom		1868-53-7	105	73.6			MS10-216-28 MS10-216-28
Toluene-d8	ictifaile	2037-26-5	99.1	84.4	-		MS10-216-28
1,2-Dichloroetha	ine	17060-07-0	106		-120		MS10-216-28

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-B

Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-216-29	EPA 8260C - TCLP-ZHE SW-846 13		RMS	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Facto	or Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-216-29
1,2-Dichloro	ethane	107-06-2	ND	10.0	10.0	U	MS10-216-29
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-216-29
Benzene		71-43-2	ND	10.0	10.0	U	MS10-216-29
Carbon Tetra	chloride	56-23-5	ND	10.0	10.0	U	MS10-216-29
Chlorobenzei	ne	108-90-7	ND	10.0	10.0	U	MS10-216-29
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-216-29
Tetrachloroet	thene	127-18-4	ND	10.0	10.0	U	MS10-216-29
Trichloroethe	ene	79-01-6	ND	10.0	10.0	U	MS10-216-29
Vinyl Chloric	de	75-01-4	ND	10.0	10.0	U	MS10-216-29
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
4-Bromofluo	robenzene	460-00-4	93.3	76.0	-128		MS10-216-29
Dibromofluo	romethane	1868-53-7	103	73.6	-132		MS10-216-29
Toluene-d8		2037-26-5	102	84.4	-115		MS10-216-29
1,2-Dichloro	ethane	17060-07-0	107	79.9	-120		MS10-216-29

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-02

Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-216-30	EPA 8260C - TCLP-ZHE SW-846 13		RMS	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
	111510 210 30						
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Facto	r Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-216-30
1,2-Dichloro	ethane	107-06-2	ND	10.0	10.0	U	MS10-216-30
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-216-30
Benzene		71-43-2	ND	10.0	10.0	U	MS10-216-30
Carbon Tetra	chloride	56-23-5	ND	10.0	10.0	U	MS10-216-30
Chlorobenzei	ne	108-90-7	ND	10.0	10.0	U	MS10-216-30
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-216-30
Tetrachloroet	thene	127-18-4	ND	10.0	10.0	U	MS10-216-30
Trichloroethe	ene	79-01-6	ND	10.0	10.0	U	MS10-216-30
Vinyl Chloric	de	75-01-4	ND	10.0	10.0	U	MS10-216-30
				Lin	nits	1	
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
4-Bromofluo	robenzene	460-00-4	98.5	76.0	-128		MS10-216-30
Dibromofluo	romethane	1868-53-7	102	73.6	-132		MS10-216-30
Toluene-d8		2037-26-5	99.3	84.4	-115		MS10-216-30
1,2-Dichloro	ethane	17060-07-0	107	79.9	-120		MS10-216-30

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-03

Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-216-31	EPA 8260C - TCLP-ZHE SW-846 1		RMS	NA NA	NA NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-216-31
1,2-Dichloro	ethane	107-06-2	ND	10.0	10.0	U	MS10-216-31
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-216-31
Benzene		71-43-2	ND	10.0	10.0	U	MS10-216-31
Carbon Tetra	chloride	56-23-5	ND	10.0	10.0	U	MS10-216-31
Chlorobenze	ne	108-90-7	ND	10.0	10.0	U	MS10-216-31
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-216-31
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS10-216-31
Trichloroethe	ene	79-01-6	ND	10.0	10.0	U	MS10-216-31
Vinyl Chlori	de	75-01-4	ND	10.0	10.0	U	MS10-216-31
				т.	•,		
Surrogate		CAS No.	% Recovery	Lin (%		\mathbf{Q}^1	File ID
	1				<u>′</u>	Ų	
4-Bromofluo		460-00-4	96.6		-128		MS10-216-31
Dibromofluo	rometnane	1868-53-7	102	73.6	-		MS10-216-31
Toluene-d8	. 41	2037-26-5	101	84.4			MS10-216-31
1,2-Dichloro	etnane	17060-07-0	104	79.9	-120		MS10-216-31

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC/MS Semivolatiles



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-A

Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-45	SW-846 8270D/TCLP Extraction M		RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C	08/21/2014 15:20	KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,4-Dichlor	obenzene	106-46-7	ND	50.0	1.00	U	MS09-377-45
2,4,5-Trichl	orophenol	95-95-4	ND	50.0	1.00	U	MS09-377-45
2,4,6-Trichl	orophenol	88-06-2	ND	50.0	1.00	U	MS09-377-45
2,4-Dinitrot	oluene	121-14-2	ND	50.0	1.00	U	MS09-377-45
Hexachloro	benzene	118-74-1	ND	50.0	1.00	U	MS09-377-45
Hexachloro	butadiene	87-68-3	ND	50.0	1.00	U	MS09-377-45
Hexachloro	ethane	67-72-1	ND	50.0	1.00	U	MS09-377-45
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-45
Nitrobenzer	ie	98-95-3	ND	50.0	1.00	U	MS09-377-45
o-Methylph	enol	95-48-7	ND	50.0	1.00	U	MS09-377-45
Pentachloro		87-86-5	ND	50.0	1.00	U	MS09-377-45
Pyridine	•	110-86-1	ND	50.0	1.00	U	MS09-377-45
				Lin	nite		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
2,4,6-Tribro	mophenol	118-79-6	112	22.8	-161		MS09-377-45
2-Fluorobip	henyl	321-60-8	81.3	26.3			MS09-377-45
2-Fluorophe		367-12-4	46.1	10.0-			MS09-377-45
Terphenyl-c		1718-51-0	105	33.7			MS09-377-45
Nitrobenzer	ie-d5	4165-60-0	73.0	12.7			MS09-377-45
Phenol-d6		13127-88-3	32.0	10.0-	87.4		MS09-377-45

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-B

Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-46	SW-846 8270D/TCLP Extraction M		RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C	08/21/2014 15:20	KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	tor Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-377-46
2,4,5-Trichle	orophenol	95-95-4	ND	50.0	1.00	U	MS09-377-46
2,4,6-Trichle	orophenol	88-06-2	ND	50.0	1.00	U	MS09-377-46
2,4-Dinitrote	oluene	121-14-2	ND	50.0	1.00	U	MS09-377-46
Hexachlorol	enzene	118-74-1	ND	50.0	1.00	U	MS09-377-46
Hexachlorol	outadiene	87-68-3	ND	50.0	1.00	U	MS09-377-46
Hexachloroe	ethane	67-72-1	ND	50.0	1.00	U	MS09-377-46
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-46
Nitrobenzen	e	98-95-3	ND	50.0	1.00	U	MS09-377-46
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-377-46
Pentachloro	ohenol	87-86-5	ND	50.0	1.00	U	MS09-377-46
Pyridine	•	110-86-1	ND	50.0	1.00	U	MS09-377-46
				т	. • 4		
Surrogate		CAS No.	% Recovery	Lin (%		${\bf Q}^1$	File ID
					<u>′</u>	Ų	
2,4,6-Tribro		118-79-6	108	22.8			MS09-377-46
2-Fluorobipl		321-60-8	75.6	26.3			MS09-377-46
2-Fluorophe		367-12-4	41.1	10.0-			MS09-377-46
Terphenyl-d	14	1718-51-0	109	33.7			MS09-377-46
Nitrobenzen Phenol-d6	e-us	4165-60-0 13127-88-3	65.5 30.0	12.7 10.0-			MS09-377-46 MS09-377-46
	1 141 1 4	value outside the control limits or 'D'		10.0	07.1		171507 577 10

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-02

Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-47	SW-846 8270D/TCLP Extraction M		RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C	08/21/2014 15:20	KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,4-Dichlorob	enzene	106-46-7	ND	50.0	1.00	U	MS09-377-47
2,4,5-Trichlor	ophenol	95-95-4	ND	50.0	1.00	U	MS09-377-47
2,4,6-Trichlor	ophenol	88-06-2	ND	50.0	1.00	U	MS09-377-47
2,4-Dinitrotol	uene	121-14-2	ND	50.0	1.00	U	MS09-377-47
Hexachlorobe	nzene	118-74-1	ND	50.0	1.00	U	MS09-377-47
Hexachlorobu	tadiene	87-68-3	ND	50.0	1.00	U	MS09-377-47
Hexachloroetl	nane	67-72-1	ND	50.0	1.00	U	MS09-377-47
m&p-Methylp	henol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-47
Nitrobenzene		98-95-3	ND	50.0	1.00	U	MS09-377-47
o-Methylphen	ol	95-48-7	ND	50.0	1.00	U	MS09-377-47
Pentachloroph		87-86-5	ND	50.0	1.00	U	MS09-377-47
Pyridine		110-86-1	ND	50.0	1.00	U	MS09-377-47
				т.	•,		
Cumacata		CAS No.	0/ Dagayawy	Lin		\mathbf{Q}^1	File ID
Surrogate			% Recovery	(%	<u> </u>	<u> </u>	
2,4,6-Tribrom		118-79-6	108	22.8			MS09-377-47
2-Fluorobiphe		321-60-8	77.2	26.3			MS09-377-47
2-Fluorophen		367-12-4	43.2		-86.4		MS09-377-47
Terphenyl-d1	4	1718-51-0	104	33.7	-154		MS09-377-47
Nitrobenzene-	·d5	4165-60-0	68.8	12.7	-139		MS09-377-47
Phenol-d6		13127-88-3	31.1	10.0-	-87.4		MS09-377-47

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-03

Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-48	SW-846 8270D/TCLP Extraction M	ethod 131 D8/26/2014 23:08	RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C	08/21/2014 15:20	KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,4-Dichlorol	benzene	106-46-7	ND	50.0	1.00	U	MS09-377-48
2,4,5-Trichlo	rophenol	95-95-4	ND	50.0	1.00	U	MS09-377-48
2,4,6-Trichlo	rophenol	88-06-2	ND	50.0	1.00	U	MS09-377-48
2,4-Dinitroto	luene	121-14-2	ND	50.0	1.00	U	MS09-377-48
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-377-48
Hexachlorob	utadiene	87-68-3	ND	50.0	1.00	U	MS09-377-48
Hexachloroet	thane	67-72-1	ND	50.0	1.00	U	MS09-377-48
m&p-Methyl	phenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-48
Nitrobenzene	-	98-95-3	ND	50.0	1.00	U	MS09-377-48
o-Methylphe	nol	95-48-7	ND	50.0	1.00	U	MS09-377-48
Pentachlorop		87-86-5	ND	50.0	1.00	U	MS09-377-48
Pyridine		110-86-1	ND	50.0	1.00	U	MS09-377-48
		'		Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
2,4,6-Tribron	nophenol	118-79-6	87.0	22.8	-161		MS09-377-48
2-Fluorobiph		321-60-8	52.5	26.3	-121		MS09-377-48
2-Fluoropher	nol	367-12-4	28.5	10.0-	86.4		MS09-377-48
Terphenyl-d1	4	1718-51-0	101	33.7	-154		MS09-377-48
Nitrobenzene		4165-60-0	46.0	12.7	-139		MS09-377-48
Phenol-d6		13127-88-3 value outside the control limits or 'D' or	20.1	10.0-	87.4		MS09-377-48

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC - PCB



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-A

Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20

Sample Matrix: SOIL

Received Date: 08/19/2014 12:54

Percent Solid: 83.8 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-1174-4	8 SW-846 8082A (PCB)	08/21/2014 23:07	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 28032	EPA 3545A	08/20/2014 08:41	MBG	10.3 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0577	1.00	U	GC10F-1174-48
Aroclor 1221	11104-28-2	ND	0.0577	1.00	U	GC10F-1174-48
Aroclor 1232	11141-16-5	ND	0.0577	1.00	U	GC10F-1174-48
Aroclor 1242	53469-21-9	ND	0.0577	1.00	U	GC10F-1174-48
Aroclor 1248	12672-29-6	ND	0.0577	1.00	U	GC10F-1174-48
Aroclor 1254	11097-69-1	0.223	0.0577	1.00	AF	GC10F-1174-48
Aroclor 1260	11096-82-5	ND	0.0577	1.00	U	GC10F-1174-48
Total PCB Amount > RL	1336-36-3	0.223		1.00		GC10F-1174-48
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	\mathbf{Q}^{1}	File ID
Tetrachloro-meta-xylene	877-09-8	90.5	60.0	-140		GC10F-1174-48
Decachlorobiphenyl	2051-24-3	107	60.0	-140		GC10F-1174-48

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-B

Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25

Sample Matrix: SOIL

Received Date: 08/19/2014 12:54

Percent Solid: 78.1 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-1174-4	9 SW-846 8082A (PCB)	08/21/2014 23:19	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 28032	EPA 3545A	08/20/2014 08:42	MBG	10.5 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1221	11104-28-2	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1232	11141-16-5	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1242	53469-21-9	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1248	12672-29-6	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1254	11097-69-1	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1260	11096-82-5	ND	0.0611	1.00	U	GC10F-1174-49
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1174-49
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	\mathbf{Q}^{1}	File ID
Tetrachloro-meta-xylene	877-09-8	95.9	60.0	-140		GC10F-1174-49
Decachlorobiphenyl	2051-24-3	109	60.0	-140		GC10F-1174-49

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-02

Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30

Sample Matrix: SOIL

Received Date: 08/19/2014 12:54

Percent Solid: 90.0 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-1174-5	60 SW-846 8082A (PCB)	08/21/2014 23:32	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 28032	EPA 3545A	08/20/2014 08:44	MBG	10.1 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1221	11104-28-2	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1232	11141-16-5	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1242	53469-21-9	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1248	12672-29-6	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1254	11097-69-1	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1260	11096-82-5	ND	0.0550	1.00	U	GC10F-1174-50
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1174-50
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	97.1	60.0	-140		GC10F-1174-50
Decachlorobiphenyl	2051-24-3	110	60.0	-140		GC10F-1174-50

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

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Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-03

Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05

Sample Matrix: SOIL

Received Date: 08/19/2014 12:54

Percent Solid: 82.0 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-1174-5	51 SW-846 8082A (PCB)	08/21/2014 23:44	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 28032	EPA 3545A	08/20/2014 08:45	MBG	10.2 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1221	11104-28-2	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1232	11141-16-5	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1242	53469-21-9	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1248	12672-29-6	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1254	11097-69-1	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1260	11096-82-5	ND	0.0596	1.00	U	GC10F-1174-51
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1174-51
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	100	60.0	-140		GC10F-1174-51
Decachlorobiphenyl	2051-24-3	111	60.0	-140		GC10F-1174-51

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC - Pesticides





Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-A

Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2047-27	SW-846 8081B, Pesticides/TCLP Ex	xtraction M08/25/2014 20:36	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
Chlordane		57-74-9	ND	2.50	1.00	U	GC19F-2047-27
Endrin		72-20-8	ND	0.0500	1.00	U	GC19F-2047-27
gamma-BHC		58-89-9	ND	0.0500	1.00	U	GC19F-2047-27
Heptachlor		76-44-8	ND	0.0500	1.00	U	GC19F-2047-27
Heptachlor Epo	xide	1024-57-3	ND	0.0500	1.00	U	GC19F-2047-27
Methoxychlor		72-43-5	ND	0.0500	1.00	U	GC19F-2047-27
Toxaphene		8001-35-2	ND	5.00	1.00	U	GC19F-2047-27
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-met	ta-xylene	877-09-8	112	60.0	-140		GC19F-2047-27
Decachlorobiph	nenyl	2051-24-3	88.5	60.0	-140		GC19F-2047-27

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

Pace Analytical Services, Inc.

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Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-B

Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC19F-2047-	28 SW-846 8081B, Pesticides/TCLP E	xtraction M08/25/2014 21:09	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 μm
Prep 1: 28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA
Analyte	CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2047-28
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2047-28
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2047-28
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2047-28
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2047-28
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2047-28
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2047-28
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
Tetrachloro-meta-xylene	877-09-8	126	60.0	-140		GC19F-2047-28
Decachlorobiphenyl	2051-24-3	81.1	60.0	-140		GC19F-2047-28

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

Pace Analytical Services, Inc.

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Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-02

Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC19F-2047-	-29 SW-846 8081B, Pesticides/TCLP	Extraction M08/25/2014 21:41	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1: 28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA
Analyte	CAS No.	Result (ug/L)	PQL	Dilution Facto	or Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2047-29
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2047-29
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2047-29
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2047-29
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2047-29
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2047-29
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2047-29
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	111	60.0)-140		GC19F-2047-29
Decachlorobiphenyl	2051-24-3	89.6	60.0)-140		GC19F-2047-29

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

Pace Analytical Services, Inc.

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Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-03

Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC19F-2047-3	30 SW-846 8081B, Pesticides/TCLP	Extraction M08/25/2014 22:13	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1: 28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA
Analyte	CAS No.	Result (ug/L)	PQL	Dilution Facto	r Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2047-30
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2047-30
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2047-30
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2047-30
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2047-30
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2047-30
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2047-30
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%)		\mathbf{Q}^1	File ID
Tetrachloro-meta-xylene	877-09-8	130	60.0-140			GC19F-2047-30
Decachlorobiphenyl	2051-24-3	88.9	60.0	-140		GC19F-2047-30

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC - Herbicides





Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-A

Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-8	EPA 1978 pg.115 Herbicides/TCI	LP Method 1308/25/2014 01:44	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28055	EPA 3510C	08/21/2014 17:00	MXR	200 mL	5.00 mL	NA
A 1 4		CAGN	D 14 (/I)	DOI	D'I 4' E		E.I. ID

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-237-8
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-237-8

			Limits	,		
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{\scriptscriptstyle \mathrm{I}}$	File ID	
2 4-DB	94-82-6	99.9	60.0-140	C	GC16-237-8	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

Pace Analytical Services, Inc.

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Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-B

Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-9	EPA 1978 pg.115 Herbicides/TCLP Method	1308/25/2014 02:02	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 μm
Prep 1:	28055	EPA 3510C	08/21/2014 17:00	MXR	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-237-9
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-237-9

			Limits	-1
Surrogate	CAS No.	% Recovery	(%)	Q¹ File ID
2 4-DB	94-82-6	101	60.0-140	GC16-237-9

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

Pace Analytical Services, Inc.

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Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-02

Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-10	EPA 1978 pg.115 Herbicides/TCLP Method	1308/25/2014 02:21	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28055	EPA 3510C	08/21/2014 17:00	MXR	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-237-10
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-237-10

			Limits	1		
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID	
2 4-DB	94-82-6	96.6	60.0-140		GC16-237-10	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

Pace Analytical Services, Inc.

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Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-03

Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Percent Solid: N/A

	Batch ID	Method Date	e Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-11	EPA 1978 pg.115 Herbicides/TCLP Method 1308/25/2014	02:39 JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 μ m
Prep 1:	28055	EPA 3510C 08/21/2014	17:00 MXR	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-237-11
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-237-11

			Limits			
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID	
2 4-DB	94-82-6	94.5	60.0-140		GC16-237-11	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Mercury





Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-A

Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-23	SW-846 7470/TCLP 1311	08/26/2014 14:36	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1660-23

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

Pace Analytical Services, Inc.

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Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-B

Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-24	SW-846 7470/TCLP 1311	08/26/2014 14:38	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1660-24

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

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2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

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Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-02

Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-25	SW-846 7470/TCLP 1311	08/26/2014 14:40	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1660-25

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

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Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-03

Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-26	SW-846 7470/TCLP 1311	08/26/2014 14:42	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1660-26

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Metals - ICP





Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-A

Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-66	EPA 6010C/TCLP 1311	08/26/2014 15:11	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	tor Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1258-66
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1258-66
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1258-66
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1258-66
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1258-66
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1258-66
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1258-66

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-B

Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-67	EPA 6010C/TCLP 1311	08/26/2014 15:13	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1258-67
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1258-67
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1258-67
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1258-67
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1258-67
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1258-67
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1258-67

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-02

Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30 Sample Matrix: SOIL(TCLP) **Received Date:** 08/19/2014 12:54

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-68	EPA 6010C/TCLP 1311	08/26/2014 15:15	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1258-68
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1258-68
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1258-68
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1258-68
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1258-68
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1258-68
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1258-68

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14081392

Pace Analytical Services, Inc.

ICP2-1258-69 ICP2-1258-69

ICP2-1258-69

ICP2-1258-69

ICP2-1258-69

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Cadmium

Chromium

Selenium

Lead

Silver

Client Sample ID: D-03

Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54

1.00

1.00

1.00

1.00

1.00

U

U

U

U

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-69	EPA 6010C/TCLP 1311	08/26/2014 15:18	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	tor Flags	File ID
Analyte Arsenic		CAS No. 7440-38-2	Result (mg/L) ND	PQL 0.500	Dilution Fact	tor Flags	File ID ICP2-1258-69

0.100

0.500

0.500

0.250

0.500

ND

ND

ND

ND

ND

7440-43-9

7440-47-3

7439-92-1

7782-49-2

7440-22-4

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)



Quality Control Results Matrix Špike Sample (MS)

Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-A MS

Lab Sample ID: 14081392-01M (AR27915M)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A Percent Solid: N/A

		Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
A	nalysis 1:	GC19F-2047-26	SW-846 8081B, Pesticides/TCLP Extraction	M08/25/2014 20:04	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 μm
Pı	rep 1:	28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2047-26
Endrin	72-20-8	0.834	0.0500	1.00		GC19F-2047-26
gamma-BHC	58-89-9	0.932	0.0500	1.00		GC19F-2047-26
Heptachlor	76-44-8	0.893	0.0500	1.00		GC19F-2047-26
Heptachlor Epoxide	1024-57-3	0.942	0.0500	1.00		GC19F-2047-26
Methoxychlor	72-43-5	0.925	0.0500	1.00		GC19F-2047-26
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2047-26

		Sample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	(ug/L)	% Rec.	$\mathbf{Q}^{'}$	(%)	
Endrin	72-20-8		1.00	0.834	83.4		70.0-130	
gamma-BHC	58-89-9		1.00	0.932	93.2		70.0-130	
Heptachlor	76-44-8		1.00	0.893	89.3		70.0-130	
Heptachlor Epoxide	1024-57-3		1.00	0.942	94.2		70.0-130	
Methoxychlor	72-43-5		1.00	0.925	92.5		70.0-130	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits		
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID	
Tetrachloro-meta-xylene	877-09-8	86.2	60.0-140	GC19F-2047-26	
Decachlorobiphenyl	2051-24-3	91.0	60.0-140	GC19F-2047-26	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Lab)





Quality Control Results Method Blank

Job Number: 14081392

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR27121B)

Lab Sample ID: VBLK-09

	Batch ID	Method	Date	Analyst	Init Wt./Vol. F	inal Vol.	Column	
Analysis 1:	MS10-216-22	EPA 8260C - TCLP-ZHE SW-846	1311 08/26/2014 19:01	RMS	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm	
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID	
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-216-22	
1,2-Dichloro	ethane	107-06-2	ND	10.0	10.0	U	MS10-216-22	
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-216-22	
Benzene		71-43-2	ND	10.0	10.0	U	MS10-216-22	
Carbon Tetra	chloride	56-23-5	ND	10.0	10.0 U		MS10-216-22	
Chlorobenzer	ne	108-90-7	ND	10.0	10.0 U		MS10-216-22	
Chloroform		67-66-3	ND	10.0	10.0 U		MS10-216-22	
Tetrachloroet	thene	127-18-4	ND	10.0	10.0 U		MS10-216-22	
Trichloroethe	ene	79-01-6	ND	10.0	10.0 U		MS10-216-22	
Vinyl Chlorid	de	75-01-4	ND	10.0	10.0	U	MS10-216-22	
		CACN	0/ D	Lin		01	E4 15	
Surrogate		CAS No.	% Recovery	(%	0)	Q ¹	File ID	
4-Bromofluo	robenzene	460-00-4	93.9	76.0	-128		MS10-216-22	
Dibromofluo	romethane	1868-53-7	98.7	73.6	-132	32 MS10-2		
Toluene-d8		2037-26-5	101	84.4	-115	MS10-216-22		
1,2-Dichloroethane		17060-07-0	102	79.9	-120		MS10-216-22	

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR28101L)

Lab Sample ID: LCS-08

ı								
		Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
ı	Analysis 1:	MS10-216-20	EPA 8260C - TCLP-ZHE SW-846 1311	08/26/2014 18:02	RMS	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm

		Added	LCS	LCS	Limits	S
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	Q' (%)	
1,1-Dichloroethene	75-35-4	40.0	41.1	103	70.0-13	0
1,2-Dichloroethane	107-06-2	40.0	40.1	100	70.0-13	0
2-Butanone	78-93-3	40.0	38.4	96.1	70.0-13	0
Benzene	71-43-2	40.0	41.0	102	70.0-13	0
Carbon Tetrachloride	56-23-5	40.0	41.2	103	70.0-130	0
Chlorobenzene	108-90-7	40.0	40.5	101	70.0-130	0
Chloroform	67-66-3	40.0	39.9	99.7	70.0-130	0
Tetrachloroethene	127-18-4	40.0	38.9	97.1	70.0-13	0
Trichloroethene	79-01-6	40.0	41.2	103	70.0-13	0
Vinyl Chloride	75-01-4	40.0	37.3	93.3	70.0-130	0

¹Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
4-Bromofluorobenzene	460-00-4	103	76.0-128	MS10-216-20
Dibromofluoromethane	1868-53-7	99.3	73.6-132	MS10-216-20
Toluene-d8	2037-26-5	103	84.4-115	MS10-216-20
1,2-Dichloroethane	17060-07-0	99.5	79.9-120	MS10-216-20

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Method Blank

Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR27121B)

Lab Sample ID: SBLK-05

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-38	SW-846 8270D/TCLP Extraction M		RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C	08/21/2014 15:20	KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQ L	Dilution Fact	or Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-377-38
2,4,5-Trichlo	rophenol	95-95-4	ND	50.0	1.00	U	MS09-377-38
2,4,6-Trichlo	rophenol	88-06-2	ND	50.0	1.00	U	MS09-377-38
2,4-Dinitroto	luene	121-14-2	ND	50.0	1.00	U	MS09-377-38
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-377-38
Hexachlorob	utadiene	87-68-3	ND	50.0	1.00 U		MS09-377-38
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-377-38
m&p-Methyl	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-38
Nitrobenzene	-	98-95-3	ND	50.0	1.00 U		MS09-377-38
o-Methylphe	nol	95-48-7	ND	50.0	1.00	U	MS09-377-38
Pentachlorop	henol	87-86-5	ND	50.0	1.00	U	MS09-377-38
Pyridine		110-86-1	ND	50.0	1.00	U	MS09-377-38
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
2,4,6-Tribror	nophenol	118-79-6	88.4	22.8	-161		MS09-377-38
2-Fluorobiphenyl		321-60-8	77.6	26.3			MS09-377-38
2-Fluorophenol		367-12-4	45.9	10.0-			MS09-377-38
Terphenyl-d		1718-51-0	98.6	33.7			MS09-377-38
Nitrobenzene-d5		4165-60-0	72.2	12.7			MS09-377-38
Phenol-d6		13127-88-3	31.6		87.4		MS09-377-38

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR27121L)

Lab Sample ID: LCS-05

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-39	SW-846 8270D/TCLP Extraction Method 131 D8/26	/2014 20:37	RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C 08/21	/2014 15:20	KEN	200 mL	1.00 mL	NA

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	$\mathbf{Q}^{'}$	(%)	
1,4-Dichlorobenzene	106-46-7	500	296	59.2		27.0-123	
2,4,5-Trichlorophenol	95-95-4	500	390	78.0		30.0-128	
2,4,6-Trichlorophenol	88-06-2	500	377	75.3		37.0-144	
2,4-Dinitrotoluene	121-14-2	500	402	80.3		37.0-121	
Hexachlorobenzene	118-74-1	500	404	80.8		42.0-117	
Hexachlorobutadiene	87-68-3	500	274	54.8		31.0-110	
Hexachloroethane	67-72-1	500	277	55.4		24.0-124	
m&p-Methylphenol	108-39-4/106-44-5	1000	552	55.2		22.0-139	
Nitrobenzene	98-95-3	500	308	61.6		34.0-119	
o-Methylphenol	95-48-7	500	294	58.9		26.0-128	
Pentachlorophenol	87-86-5	500	428	85.7		4.00-113	
Pyridine	110-86-1	500	198	39.5		1.00-105	

¹ Qualifier column where **' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
2,4,6-Tribromophenol	118-79-6	100	22.8-161	MS09-377-39
2-Fluorobiphenyl	321-60-8	75.1	26.3-121	MS09-377-39
2-Fluorophenol	367-12-4	42.9	10.0-86.4	MS09-377-39
Terphenyl-d14	1718-51-0	97.0	33.7-154	MS09-377-39
Nitrobenzene-d5	4165-60-0	70.1	12.7-139	MS09-377-39
Phenol-d6	13127-88-3	30.4	10.0-87.4	MS09-377-39

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14081392

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308

Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR27915B)

Lab Sample ID: PBLK-68

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-1174-4	46 SW-846 8082A (PCB)	08/21/2014 22:41	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 28032	EPA 3545A	08/20/2014 08:39	MBG	10.7 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC10F-1174-46
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1174-46
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	\mathbf{Q}^{1}	File ID
Tetrachloro-meta-xylene	877-09-8	88.5	60.0	-140		GC10F-1174-46
Decachlorobiphenyl	2051-24-3	101	60.0	-140		GC10F-1174-46

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR27915L)

Lab Sample ID: LCS-68

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Ana	lysis 1: GC10F-1174-47	SW-846 8082A (PCB)	08/21/2014 22:54	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep	1: 28032	EPA 3545A	08/20/2014 08:40	MBG	10.3 g	25.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	% Rec.	Q' (%)	
Aroclor 1242	53469-21-9	1.21	1.08	89.3	70.0-130	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits		
Surrogate	CAS No.	% Recovery	(%)	Q¹ File	e ID
Tetrachloro-meta-xylene	877-09-8	87.7	60.0-140	GC10F	F-1174-47
Decachlorobiphenyl	2051-24-3	103	60.0-140	GC10F	F-1174-47

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR27915B)

Lab Sample ID: TBLK-81

Ba	atch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC	19F-2047-24	SW-846 8081B, Pesticides/TCLP Ex	xtraction M08/25/2014 18:59	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1: 280	066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
Chlordane		57-74-9	ND	2.50	1.00	U	GC19F-2047-24
Endrin		72-20-8	ND	0.0500	1.00	U	GC19F-2047-24
gamma-BHC		58-89-9	ND	0.0500	1.00	U	GC19F-2047-24
Heptachlor		76-44-8	ND	0.0500	1.00	U	GC19F-2047-24
Heptachlor Epoxic	de	1024-57-3	ND	0.0500	1.00	U	GC19F-2047-24
Methoxychlor		72-43-5	ND	0.0500	1.00	U	GC19F-2047-24
Toxaphene		8001-35-2	ND	5.00	1.00	U	GC19F-2047-24
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	5)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-	xylene	877-09-8	97.3	60.0	-140		GC19F-2047-24
Decachlorobiphen	yĺ	2051-24-3	79.5	60.0	-140		GC19F-2047-24

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR27915L)

Lab Sample ID: LCS-81

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2047-25	SW-846 8081B, Pesticides/TCLP Extraction	M08/25/2014 19:31	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q Limits (%)	
Endrin	72-20-8	1.00	0.748	74.8	70.0-130	
gamma-BHC	58-89-9	1.00	0.888	88.8	70.0-130	
Heptachlor	76-44-8	1.00	0.861	86.1	70.0-130	
Heptachlor Epoxide	1024-57-3	1.00	0.893	89.3	70.0-130	
Methoxychlor	72-43-5	1.00	0.865	86.5	70.0-130	

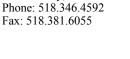
¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Tetrachloro-meta-xylene	877-09-8	100	60.0-140	GC19F-2047-25
Decachlorobiphenyl	2051-24-3	82.8	60.0-140	GC19F-2047-25

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Column

Pace Analytical Services, Inc.

2190 Technology Drive

Schenectady, NY 12308



Quality Control Results Method Blank

Job Number: 14081392

Client: BARTON AND LOGUIDICE

Batch ID

Project: ALCO

Client Sample ID: Method Blank (AR27915B)

Lab Sample ID: HBLK-72

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

Analyst Init Wt./Vol. Final Vol.

Analysis 1:	GC16-237-6	EPA 1978 pg.115 Herbicides/TCI	P Method 1308/25/2014 01:08	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 μm
Prep 1:	28055	EPA 3510C	08/21/2014 17:00	MXR	200 mL	5.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SII	LVEX	93-72-1	ND	5.00	20.0	U	GC16-237-6
2,4-D		94-75-7	ND	5.00	20.0	U	GC16-237-6
				Li	mits		

Date

 Surrogate
 CAS No.
 % Recovery
 (%)
 Q¹
 File ID

 2 4-DB
 94-82-6
 91.8
 60.0-140
 GC16-237-6

Method

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR27915L)

Lab Sample ID: LCS-72

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date Analys	st Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-7	EPA 1978 pg.115 Herbicides/TCLP Method 1308/25/2	2014 01:26 JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28055	EPA 3510C 08/21/2	2014 17:00 MXR	200 mL	5.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q Limits (%)
2,4,5-TP,SILVEX	93-72-1	12.5	11.5	92.3	70.0-130
2,4-D	94-75-7	12.5	11.3	90.1	70.0-130

¹ Qualifier column where 1st denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	â		
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{^{1}}$	File ID	
2 4-DB	94-82-6	93.8	60.0-140		GC16-237-7	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14081392

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR27121B)

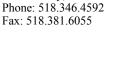
Lab Sample ID: PBW-12

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-16	SW-846 7470/TCLP 1311	08/26/2014 14:22	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1660-16

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Pace Analytical Services, Inc.

2190 Technology Drive

Schenectady, NY 12308



Quality Control Results Lab Control Sample (LCS)

Job Number: 14081392

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR27121L)

Client Sample ID: Lab Control Sample (AR27121L)

Client Sample ID: Lab Control Sample (AR27121L)

Lab Sample ID: LCS-12 Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-17	SW-846 7470/TCLP 1311	08/26/2014 14:23	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	Q' (%)	
Mercury	7439-97-6	0.0300	0.0319	106	80.0-120	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14081392

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR27121B)

Lab Sample ID: PBW-10

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-64	EPA 6010C/TCLP 1311	08/26/2014 15:06	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1258-64
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1258-64
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1258-64
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1258-64
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1258-64
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1258-64
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1258-64

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14081392

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR27121L)

Lab Sample ID: LCS-10

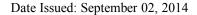
	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-65	EPA 6010C/TCLP 1311	08/26/2014 15:08	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	\mathbf{Q}^1	Limits (%)
Arsenic	7440-38-2	12.5	14.4	115		85.0-115
Barium	7440-39-3	25.0	26.6	106		85.0-115
Cadmium	7440-43-9	5.00	5.48	110		85.0-115
Chromium	7440-47-3	12.5	13.1	105		85.0-115
Lead	7439-92-1	12.5	13.3	106		85.0-115
Selenium	7782-49-2	5.00	5.71	114		85.0-115
Silver	7440-22-4	12.5	13.8	110		85.0-115

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): August 19, 2014

Lab Report ID: 14081747

Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included: PCB Analysis

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Jan Pfelger

Dan Pfalzer Laboratory Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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1

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CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 14081747) consists of 1 soil sample received on 8/19/2014. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	Client ID	Collection Date
AR30038	D-01-A	8/19/2014 09:20

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 8/19/2014.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see form for details.

Respectfully submitted,

Kelly A. miller

Kelly A. Miller

Project Manager

QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

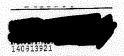
- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate recovery not evaluated against control limits due to sample dilution.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

Inorganic Laboratory Qualifiers

- B Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY

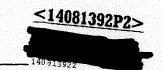




Pace Analytical 140913921 www.pacelabs.com	1408:	ah 17471	n-of-Custody is a	a LEGAL DOCUMENT. All relevant field Section C	ds must be completed	accurately.	Page:	/ of /
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018 - 101001	ect Name: AIC(2		Pace Project Manager: Kelly Mall	er	Site Location	111	
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*Impon	e's NET 30 day payment terms	This election is the section of		ny myoides not paid within 30 days. ember 02, 2014	(MM/DD/YY): 2	19/2014		2-020rev. , 5-May-2007 14081747 - Page 9 (



Sample Condition Upon Receipt



PROJECT: A 1 ()

COURIER: FedEx D UPS D Clien	nt-🖈	Pace Othe CUSTODY SEAL PRI		No j≰ _	INTACT: Yes □	No □	N/A*
	Bubble Ba n 03 □ No □	gsv/ None □ #122087967 □ N/A	Other □ (ICE COOLER TEMPI	USED: Webset ERATURE (6°C): up should be above	The artificial and a second second	None 🗆
BIOLOGICAL 1330L 10 1100 Later 1330L				COMMENTS:			
Chain of Custody Present:	v ØYes	□No	1.				
Chain of Custody Filled Out:	XYes	□No	2.				
Chain of Custody Relinquished:	Ø Yes	□No	3.				
Sampler Name / Signature on COC:	Yes	□No	4.				
Samples Arrived within Hold Time:	∀ Syes	□No	5.				
Short Hold Time Analysis (<72hr):	□Yes	™ No	6.				
Rush Turn Around Time Requested:	□Yes	No	7.				
Sufficient Volume:	'\\\\Yes	□No	8.				
Correct Containers Used:	X 1Yes	□ No	9.				
- Pace Containers Used:	r⊠xes	□No					
Containers Intact:	∀ Zlyes	□No	10.				
Filtered volume received for Dissolved tests:	□Yes	□no ŒN/A	11.				
Sample Labels match COC: - Includes date/time/ID/Analysis	17∄Yes	□no	12.				
All containers needing preservation have been checked:	□Yes	□no S N/A	13.				
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	□Yes	□no ŞANA	Initial when completed:	<u>у А.</u>	Lot # of	added preserva	itive:
Headspace in VOA Vials (>6mm):	□Yes	□no ¼ n/a	14.				
Trip Blank Present:	□Yes	□no XQn/A	15.				
Trip Blank Custody Seals Present: Pace Trip Blank Lot #:	□Yes	□No BN/A					
		Line-Out (Includes Log In (Includes no					JB 8/19/14

*ι*01 01

LOC 3CUR_FORM_052914_Rev01_01

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

Codonie

<u>Contaminant</u>	Regulatory Limit (mg/L)
Arsenic	5.00
Barium	100.00
Benzene	0.50
Cadmium	1.00 -
Carbon Tetrachloride	0.50
Chlordane	0.03
Chlorobenzene	100.00
Chloroform	6.00
Chromium	5.00
o-Cresol	200.00 —
m-Cresol	200.00
p-Cresol	200.00
Cresol	200.00 -
2,4 - D	10.00 -
1,4 - Dichlorobenzene	7.50
1,2 - Dichloroethane	0.50
1,1 - Dichloroethylene	0.70 ~
2,4 - Dinitrotoluene	0.13 🖫
Endrin	0.02 6
Heptachlor	0.01
Hexachlorobenzene	0.13 🛶
Hexachloro-1, 3-butadiene	0.50 -
Hexachloroethane	3.00 ~
Lead	5.00
Lindane	0.40
Mercury	0.20
Methoxychlor	10.00 —
Methyl Ethel Ketone	200.00 —
Nitorbenzene	2.00 —
Pentachlorophenol	100.00 —
Pyridine	5.00
Selenium	1.00 -
Silver	5.00—
Tetrachloroethylene	0.70
Toxaphene	0.50 ~
Trichloroethylene	0.50 -
2,4,5-Trichlorophenol	400.00 —
2,4,6 - Trichlorophenol	2.00 ~
2,4,5 - TP (silvex)	1.00 —
Vinyl chloride	0.20 —





		Lab Level	Reg. Level
Constituent	Testing Methodology	Lab Level	(mg/L)
[etals			5.00
Arsenic Arsenic	TCLP EPA Method 6010		100.00
Barium	TCLP EPA Method 6010		1.00
Cadmium	TCLP EPA Method 6010		5.00
Chromium	TCLP EPA Method 6010		5.00
. Lead	TCLP EPA Method 6010		0.20
. Mercury	TCLP EPA Method 7470		
7. Selenium	TCLP EPA Method 6010		1.00
8. Silver	TCLP EPA Method 6010		5.00
Volatiles			(mg/L)
1. Benzene	TCLP EPA Method 8260		0.50
Carbon Tetrachloride	TCLP EPA Method 8260		0.50
3. Chlorobenzene	TCLP EPA Method 8260		100.00
4. Chloroform	TCLP EPA Method 8260		6.00
5. 1,2 Dichloroethane	TCLP EPA Method 8260		0.50
6. 1,1 Dichloroethylene	TCLP EPA Method 8260		0.70
7. Methyl ethyl ketone	TCLP EPA Method 8260		200.00
8. Tetrachloroethylene	TCLP EPA Method 8260		0.70
9. Trichloroethylene	TCLP EPA Method 8260		0.50
10. Vinyl Chloride	TCLP EPA Method 8260		0.30
	TCLF EFA Method 8200		0.20
Semi Volatiles			(mg/L)
1. o-Cresol	TCLP EPA Method 8270		200.00
2. m-Cresol	TCLP EPA Method 8270		200.00
3. Cresol (Total)	TCLP EPA Method 8270		200.00
4. 1,4-Dichlorobenzene	TCLP EPA Method 8270		7.50
5. 2,4-Dinitrotoluene	TCLP EPA Method 8270		0.13
6. Hexachlorobenzene	TCLP EPA Method 8270		0.13
7. Hexachlorobutadiene	TCLP EPA Method 8270		0.50
8. Hexachloroethane	TCLP EPA Method 8270		3.00
9. Nitrobenzene	TCLP EPA Method 8270		2.00
10. Pentrachlorophenol	TCLP EPA Method 8270		100.00
11. Pyridine	TCLP EPA Method 8270		5.00
12. 2,4,5-Trichlorophenol	TCLP EPA Method 8270		400.00
13. 2,4,6-Trichlorophenol	TCLP EPA Method 8270		2.00
Pesticides & Herbicides			
1. Chlordane	TCLP EPA Method 8081		(mg/L) 0.03
2. Endrin	TCLP EPA Method 8081		The state of the s
3. Heptachlor	TCLP EPA Method 8081		0.02
4. Heptachlor Epoxide	TCLP EPA Method 8081		0.008
5. Lindane (Gamma-BHC)	TCLP EPA Method 8081		0.008
6. Methoxychlor	TCLP EPA Method 8081		0.40
7. Toxaphene (Chlorocamphene)	TCLP EPA Method 8081		10.00
8. 2,4 - D	TCLP EPA Method 8151		0.50
9. 2,4,5 – TP (Silvex)	TCLP EPA Method 8151		10.00
Polychlorinated Biphenyls			1.0
1. Aroclor 1016			COA Limit (µg/Kg) (based on dry weigh
2. Aroclor 1016	EPA Method 8082		<pql< td=""></pql<>
3. Aroclor 1232	EPA Method 8082		<pql< td=""></pql<>
	EPA Method 8082		<pql< td=""></pql<>
1. Aroclor 1242	EPA Method 8082		<pql< td=""></pql<>
5. Aroclor 1248	EPA Method 8082		<pql< td=""></pql<>
Aroclor 1254	EPA Method 8082		
. Aroclor 1260	EPA Method 8082		<pql <pql<="" td=""></pql>





SAMPLE RECEIPT



SAMPLE RECEIPT REPORT 14081747

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

COC DISCREPANCY: NO

CLIENT: BARTON AND LOGUIDICE

PROJECT: ALCO LRF: 14081747

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: *1 DAY* RECEIVED DATE: 8/19/2014 12:54

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,2}SAMPLES PRESERVED PER METHOD GUIDANCE: YES ³ SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID: N. SHAFFER-BAR-ALB NUMBER OF COOLERS: 1 **DISPOSAL:** BY LAB (45 DAYS)

CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED

TEMPERATURE(S): ⁵8.4 °C

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-01-A (AR30038)	*1 DAY* 09-02-14	8/19/2014 09:20	Soil	EPA 8082A	PCB Analysis	

¹ The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.

Reporting Parameters and Lists

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Total PCB Amount > RL

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The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it ais not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such. Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

GC - PCB



Analytical Sample Results

Job Number: 14081747

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-01-A

Lab Sample ID: 14081747-01 (AR30038)

Collection Date: 08/19/2014 09:20

Sample Matrix: SOIL

Received Date: 08/19/2014 12:54

Percent Solid: 80.8 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-1185-4	17 SW-846 8082A (PCB)	09/01/2014 03:48	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 28198	EPA 3545A	08/31/2014 17:09	KFM	10.3 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0602	1.00	U	GC10F-1185-47
Aroclor 1221	11104-28-2	ND	0.0602	1.00	U	GC10F-1185-47
Aroclor 1232	11141-16-5	ND	0.0602	1.00	U	GC10F-1185-47
Aroclor 1242	53469-21-9	ND	0.0602	1.00	U	GC10F-1185-47
Aroclor 1248	12672-29-6	ND	0.0602	1.00	U	GC10F-1185-47
Aroclor 1254	11097-69-1	0.260	0.0602	1.00	AF	GC10F-1185-47
Aroclor 1260	11096-82-5	ND	0.0602	1.00	U	GC10F-1185-47
Total PCB Amount > RL	1336-36-3	0.260		1.00		GC10F-1185-47
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
Tetrachloro-meta-xylene	877-09-8	82.5	60.0	-140		GC10F-1185-47
Decachlorobiphenyl	2051-24-3	83.2	60.0	-140		GC10F-1185-47

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Quality Control Samples (Lab)



Quality Control Results Method Blank

Job Number: 14081747

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR30038B)

Lab Sample ID: PBLK-91

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-1185-4	5 SW-846 8082A (PCB)	09/01/2014 03:23	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 28198	EPA 3545A	08/31/2014 17:07	KFM	10.1 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC10F-1185-45
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1185-45
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	74.7	60.0	-140		GC10F-1185-45
Decachlorobiphenyl	2051-24-3	93.9	60.0	-140		GC10F-1185-45

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 14081747

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR30038L)

Lab Sample ID: LCS-91

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

		Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
	Analysis 1:	GC10F-1185-46	SW-846 8082A (PCB)	09/01/2014 03:36	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
l	Prep 1:	28198	EPA 3545A	08/31/2014 17:09	KFM	10.2 g	25.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	% Rec.	$\mathbf{Q}^{\scriptscriptstyle 1}$ (%)	
Aroclor 1242	53469-21-9	1.22	1.00	82.2	70.0-130	

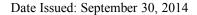
¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	1
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Tetrachloro-meta-xylene	877-09-8	75.0	60.0-140	GC10F-1185-46
Decachlorobiphenyl	2051-24-3	90.0	60.0-140	GC10F-1185-46

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): September 18, 2014

Lab Report ID: 14090613

Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS (TCLP)
SVOCs by GCMS (TCLP)
Herbicides (TCLP)
PCB Analysis
Pesticide Analysis (TCLP)
Mercury Analysis (TCLP)
Metals by ICP (TCLP- RCRA)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfelger

Dan Pfalzer Laboratory Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 14090613) consists of 2 soil samples received on 09/18/2014. The samples are from Project Name: ALCO.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	Collection Date
AR33586	D-04-A	09/18/2014 11:45
AR33587	D-04-B	09/18/2014 11:50

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 09/18/2014.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for Pentachlorophenol and 2,4,6-tribromophenol were below method established limits for the associated Continuing Calibration Verification Sample for samples (LAB ID: AR33586 and AR33587). Low analytical bias may be indicated for these samples.

Herbicide Analysis (TCLP)

Analysis for herbicides was performed by EPA 1978 pg.115. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Pesticide Analysis (TCLP)

Analysis for pesticides was performed by method SW-846 8081B. Samples were extracted by USEPA SW-846 Method 3535A Solid Phase Extraction. One-liter water samples were extracted by PACE SOP NE178_04. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Metals Analysis by ICP

Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Respectfully submitted,

Kelly A. miller

Kelly A. Miller

Project Manager

QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate recovery not evaluated against control limits due to sample dilution.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

Inorganic Laboratory Qualifiers

- B Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- * Value not within control limits.

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SAMPLE CHAIN OF CUSTODY



New York Office 2190 Technology Dr. Schenectady, NY 12308 (518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A	Section B			Section	n C																					
Required Client Information:	Required Proje	ct Informa	tion:		nformation	1:																—	Page:	1	of	1
Company: Barton and Loguidice DPC	Report To: And	dy Barber		Attentio	n:	Acco	unts	Paya	ble			7						RF(GLILA	ATOR	RY A	GEN(CV.			
Address: 10 Airline Drive, Suite 200	Copy To: Nat	han Shafi	fer	Compan	y Name:	Barto	on an	d Log	guidic	e DP	C	1	3400	NPD	ES	No.	GRO						NG WA	ATER		
Albany, NY 12205				Address	s:	290 Elv	wood D	avis Ro	ad, Bo	x 3107		1	1	UST			RCRA						VG VV/	TIER		
Email To: nshaffer@bartonandloguidice.com	Purchase Order No.:		70.	Pace Quo	te Referenc		se NY, 00014					1		00)	SIT		CIT	_		-	TC				,	
Phone: 518-218-1801 Fax: 518-218-1805	Project Name:	ALCO		Pace Proje	ect Manager	: k	Celly I	Miller			-	-												(vii		
Requested Standard Due Date/TAT:	Project Number:	1368.00	1.001	Pace Pro	ofile #:							-	Cilto	red (Y	OCA		V 77	,	77)H	: S	C ∛ 7 7	ΝΙ 7 7 .	T 2TI	HER	
Section D Valid Matrix Codes	ODE	1		1			802										//	H_{j}	//,	//	//	//	//	///		
SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE TISSUE	MATRIX CODE	+	COLL COMPOSITE START ATE TIME	COMPC COMPC END/G	TIME	0		Unpreserved H ₂ SO ₄	33	NaOH	Na ₂ S ₂ O ₃ & & & & & & & & & & & & & & & & & & &		Anal	uested									Resolution/	"Chlorine (Y.M.)	Pace	Project No. Lab I.D.
D-04-A	<u> </u>	C	H	T	11.45		_	٨		-		\bot		XX	11	11			AN	_3	35	86				_
2 D-04-B	SL	0		9/18	11:50	_L	2 >	X						XX					AM	3	35	87	П			_
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4																							П			
5																							П			
6															\prod	\prod		\Box				Ш	lt		-	
7				_									\exists	\prod	\prod	\prod	\top	\forall	\forall							
8													\top	\top	11	11	\prod		+			H				
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11						1	\top	\top	1	$\dagger \dagger$	\dashv		\dashv	$\dagger \dagger$	+	++	++	+	++	+			$\vdash +$			
12						1	+	$\dagger \dagger$	\dashv	$\dagger \dagger$	_	-	\dashv	++	+	+	+	+	+	+			\vdash			
ADDITIONAL COMMENTS	RELINQU	ISHED B	Y / AFFILIAT	ION	DATE		TIME	Ξ	Α	CCEP	TED B	BY / A	FFIL	IATIC	N			DATE		T	IME			IPLE CO	ONDIT	ONE
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Pace Analytical Services, Inc.					S	Septer	nber 3	30, 201	14						-		* [e-F	ile(Al	LLQ)20re	v.4.29		09061 3)22Ju	3 - Pag	ge 10 of 57



Sample Condition Upon Receipt



CLIENT NAME:	B+L	140906132
PROJECT :	ALCO	

					, <u>, , , , , , , , , , , , , , , , , , </u>		and the second of the second o
Client 🗷	Pace	Other 🗆					
	CUSTO	Y SEAL PRESE	NT: Yes 🗆	No 🕱	INTACT: Yes	No 🗀	N/A&
Bubble Bags	×	None 🗆	Other 🗆	ICE	USED: Wet 🕱	Blue 🗆	None □
Gun 03 □	#122087	7967 🗆		COOLER TEMPI	ERATURE (°C):	5.9, 4.5	
No □	N/A ⊅<			Tem	np should be above	freezing to 6°C	
				COMMENTS:			
XYes	□No		1.				
Ż√yes	□No		2.				
∑Yes	□No		3.				
Xiγes	□No		4.				
Ż√es	□No		5.				
□Yes	ĭ ⊠ No		6.				
□Yes	√∕ŽNo		7.				
Yes	□No		8.				
⊠Yes	□No		9.				
Xi√es	□No						
X¥Yes	□No		10.				
ts: _{□Yes}	□No	⊠ N/A	11.				
XYes	□No		12.				
en 🗆 Yes	□No	⊠ N/A	13.				
□Yes	□No	⊠ N/A					
			Initial when		Lot # of a	dded preservati	ve:
			completed:	NA		NA	
□Yes	□No	IXIN/A	14.				
□Yes	□No	⊠ N/A	15.		• •		
□Yes	□No	X N/A					
	Bubble Bags Gun 03 No No No No No	CUSTOD Bubble Bags ★ Sun 03	CUSTODY SEAL PRESE Bubble Bags None Sun 03 #122087967 No N/A No N/	CUSTODY SEAL PRESENT: Yes Bubble Bags None Other Gun 03 #122087967 No N/A No No 2. No 2. No 3. No 4. No 4. No 5. Yes No 6. Yes No 7. No No 9. No No No 10. No No No 11. No No No 12. No No No 12. No No No No 13. No No No No No 14. No No No No No No 14. No No No No No No No No	CUSTODY SEAL PRESENT: Yes No	CUSTODY SEAL PRESENT: Yes	CUSTODY SEAL PRESENT: Yes No INTACT: Yes No Bubble Bags None Other ICE USED: Wet Blue COOLER TEMPERATURE (°C): 5.9, 4.5

Sample Receipt form filled in: <u>パッ</u>や

Line-Out (Includes Copying Shipping Documents and verifying sample pH): Log In (Includes notifying PM of any discrepacies and documenting in LIMS): Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

SAMPLE RECEIPT





SAMPLE RECEIPT REPORT 14090613

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

COC DISCREPANCY: NO

CLIENT: BARTON AND LOGUIDICE

PROJECT: ALCO LRF: 14090613

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: 7 DAYS RECEIVED DATE: 09/18/2014 14:05

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,2}SAMPLES PRESERVED PER METHOD GUIDANCE: YES ³ SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID: N. SHAFFER- B&L NUMBER OF COOLERS: 1 **DISPOSAL:** BY LAB (45 DAYS)

CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED **TEMPERATURE(S):** 5.9, 4.5 °C

COMMENTS:

	4	DATE-TIME			TEST	QC
CLIENT ID (LAB ID)	TAT-DUE Date	SAMPLED	MATRIX	METHOD	DESCRIPTION	REQUEST
D-04-A (AR33586)	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
D-04-B (AR33587)	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	

¹ The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.

Reporting Parameters and Lists

EPA 1978 p.115 - Herbicides (TCLP) - (ug/L)

2,4,5-TP,SILVEX

2,4-D

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)

Arsenic Barium Cadmium Chromium Lead Selenium Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)

Mercury

EPA 8081B - Pesticide Analysis (TCLP) - (ug/L)

Chlordane Endrin gamma-BHC Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Total PCB Amount > RL EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)

1,1-Dichloroethene 1,2-Dichloroethane 2-Butanone Benzene

Carbon Tetrachloride Chlorobenzene Chloroform Tetrachloroethene Trichloroethene Vinyl Chloride

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Page 1 of 2

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

3 Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it

ais not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such. Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.





SAMPLE RECEIPT REPORT 14090613

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Continued...

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)

- 1,4-Dichlorobenzene
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- 2,4-Dinitrotoluene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachloroethane
- m&p-Methylphenol
- Nitrobenzene o-Methylphenol
- Pentachlorophenol
- Pyridine

GC/MS Volatiles



Analytical Sample Results

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-A

Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45 Sample Matrix: SOIL(TCLP) Received Date: 09/18/2014 14:05

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol. Fi	nal Vol.	Column
Analysis 1:	MS10-250-9	EPA 8260C - TCLP-ZHE SW-846 13	311 09/25/2014 10:54	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloro	oethene	75-35-4	ND	10.0	10.0	U	MS10-250-9
1,2-Dichloro	oethane	107-06-2	ND	10.0	10.0	U	MS10-250-9
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-250-9
Benzene		71-43-2	ND	10.0	10.0	U	MS10-250-9
Carbon Tetr	achloride	56-23-5	ND	10.0	10.0	U	MS10-250-9
Chlorobenze	ene	108-90-7	ND	10.0	10.0	U	MS10-250-9
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-250-9
Tetrachloroe	ethene	127-18-4	ND	10.0	10.0	U	MS10-250-9
Trichloroeth	nene	79-01-6	ND	10.0	10.0	U	MS10-250-9
Vinyl Chlor	ide	75-01-4	ND	10.0	10.0	U	MS10-250-9
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		$\mathbf{Q}^{^{1}}$	File ID
4-Bromoflu	orobenzene	460-00-4	91.3	76.0	-128		MS10-250-9
Dibromoflu	oromethane	1868-53-7	100	73.6	-132		MS10-250-9
Toluene-d8		2037-26-5	99.6	84.4	-115		MS10-250-9
1.2-Dichloro	oethane	17060-07-0	101	79.9	-120		MS10-250-9

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Analytical Sample Results

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-B

Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50 Sample Matrix: SOIL(TCLP) Received Date: 09/18/2014 14:05

Percent Solid: N/A

ſ							
	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-250-10	EPA 8260C - TCLP-ZHE SW-846 13	311 09/25/2014 11:21	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-250-10
1,2-Dichloro	ethane	107-06-2	ND	10.0	10.0	U	MS10-250-10
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-250-10
Benzene		71-43-2	ND	10.0	10.0	U	MS10-250-10
Carbon Tetra	chloride	56-23-5	ND	10.0	10.0	U	MS10-250-10
Chlorobenze	ne	108-90-7	ND	10.0	10.0	U	MS10-250-10
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-250-10
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS10-250-10
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-250-10
Vinyl Chlori	de	75-01-4	ND	10.0	10.0	U	MS10-250-10
				Lin		1	
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
4-Bromofluc	robenzene	460-00-4	92.9	76.0	-128		MS10-250-10
Dibromofluo	romethane	1868-53-7	101	73.6	-		MS10-250-10
Toluene-d8		2037-26-5	98.9	84.4	-115		MS10-250-10
1,2-Dichloro	ethane	17060-07-0	102	79.9	-120		MS10-250-10

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC/MS Semivolatiles



Analytical Sample Results

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-A

Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45 Sample Matrix: SOIL(TCLP) Received Date: 09/18/2014 14:05

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-406-10	SW-846 8270D/TCLP Extraction M		RMS	NA	NA	N/A
Prep 1:	28615	EPA 3510C	09/24/2014 15:00	EPC	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	tor Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-406-10
2,4,5-Trichlo	orophenol	95-95-4	ND	50.0	1.00	U	MS09-406-10
2,4,6-Trichlo	prophenol	88-06-2	ND	50.0	1.00	U	MS09-406-10
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS09-406-10
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-406-10
Hexachlorob	utadiene	87-68-3	ND	50.0	1.00	U	MS09-406-10
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-406-10
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-406-10
Nitrobenzen	e	98-95-3	ND	50.0	1.00	U	MS09-406-10
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-406-10
Pentachlorop	henol	87-86-5	ND	50.0	1.00	U	MS09-406-10
Pyridine		110-86-1	ND	50.0	1.00	U	MS09-406-10
				т !	• • • •		
Surrogate		CAS No.	% Recovery	Lin (%		${\bf Q}^1$	File ID
	11				<u> </u>	V	
2,4,6-Tribro		118-79-6	85.6	22.8			MS09-406-10
2-Fluorobiph 2-Fluorophe		321-60-8 367-12-4	61.4 39.9	26.3- 10.0-			MS09-406-10 MS09-406-10
Terphenyl-d		1718-51-0	94.6	33.7			MS09-406-10 MS09-406-10
Nitrobenzen	1 -1 2-d5	4165-60-0	66.5	12.7			MS09-406-10
Phenol-d6		13127-88-3	30.2	10.0-			MS09-406-10

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Analytical Sample Results

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-B

Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50 Sample Matrix: SOIL(TCLP) **Received Date:** 09/18/2014 14:05

Percent Solid: N/A

			_				a .
	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-406-11	SW-846 8270D/TCLP Extraction M		RMS	NA	NA	N/A
Prep 1:	28615	EPA 3510C	09/24/2014 15:00	EPC	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-406-11
2,4,5-Trichlo	rophenol	95-95-4	ND	50.0	1.00	U	MS09-406-11
2,4,6-Trichlo	rophenol	88-06-2	ND	50.0	1.00	U	MS09-406-11
2,4-Dinitroto	luene	121-14-2	ND	50.0	1.00	U	MS09-406-11
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-406-11
Hexachlorob	utadiene	87-68-3	ND	50.0	1.00	U	MS09-406-11
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-406-11
m&p-Methyl	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-406-11
Nitrobenzene	è	98-95-3	ND	50.0	1.00	U	MS09-406-11
o-Methylphe	nol	95-48-7	ND	50.0	1.00	U	MS09-406-11
Pentachlorop		87-86-5	ND	50.0	1.00	U	MS09-406-11
Pyridine		110-86-1	ND	50.0	1.00	U	MS09-406-11
		'		Lin	nite		
Surrogate		CAS No.	% Recovery	(%		${\bf Q}^1$	File ID
2,4,6-Tribron	nophenol	118-79-6	87.1	22.8	-161		MS09-406-11
2-Fluorobiph	enyl	321-60-8	67.2	26.3	-121		MS09-406-11
2-Fluoropher		367-12-4	46.4	10.0-	-86.4		MS09-406-11
Terphenyl-d1		1718-51-0	98.5		-154		MS09-406-11
Nitrobenzene	e-d5	4165-60-0	70.5	12.7			MS09-406-11
Phenol-d6		13127-88-3	32.8		-87.4		MS09-406-11

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC - PCB



Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-A

Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45

Sample Matrix: SOIL

Received Date: 09/18/2014 14:05

Percent Solid: 5.00 - Results are based on dry weight unless otherwise noted.

Batc	h ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC20F	F-2016-8	SW-846 8082A (PCB)	09/29/2014 20:05	KEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μ m
Prep 1: 28697		EPA 3545A	09/29/2014 08:43	MH	10.4 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1221		11104-28-2	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1232		11141-16-5	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1242		53469-21-9	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1248		12672-29-6	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1254		11097-69-1	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1260		11096-82-5	ND	0.965	1.00	U	GC20F-2016-8
Total PCB Amount	> RL	1336-36-3	ND		1.00	U	GC20F-2016-8
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(o)	\mathbf{Q}^1	File ID
Tetrachloro-meta-xy	lene	877-09-8	108	60.0	-140		GC20F-2016-8
Decachlorobiphenyl		2051-24-3	104	60.0	-140		GC20F-2016-8

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

Note: There were several non-target peaks.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-B

Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50

Sample Matrix: SOIL

Received Date: 09/18/2014 14:05

Percent Solid: 15.2 - Results are based on dry weight unless otherwise noted.

Bato	ch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC20	F-2016-9	SW-846 8082A (PCB)	09/29/2014 20:17	KEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 28697	7	EPA 3545A	09/29/2014 08:44	MH	10.2 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1221		11104-28-2	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1232		11141-16-5	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1242		53469-21-9	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1248		12672-29-6	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1254		11097-69-1	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1260		11096-82-5	ND	0.324	1.00	U	GC20F-2016-9
Total PCB Amount	> RL	1336-36-3	ND		1.00	U	GC20F-2016-9
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xy	ylene	877-09-8	92.1	60.0	-140		GC20F-2016-9
Decachlorobiphenyl	ĺ	2051-24-3	97.8	60.0	-140		GC20F-2016-9

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC - Pesticides





Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-A

Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45 Sample Matrix: SOIL(TCLP) Received Date: 09/18/2014 14:05

Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC19B-2191-	11 SW-846 8081B, Pesticides/TCLP F	Extraction M09/27/2014 21:05	MCA	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 μm
Prep 1: 28648	EPA 3535A	09/24/2014 15:00	EPC	200 mL	10.0 mL	NA
Analyte	CAS No.	Result (ug/L)	PQL	Dilution Facto	or Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19B-2191-11
Endrin	72-20-8	ND	0.0500	1.00	U	GC19B-2191-11
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19B-2191-11
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19B-2191-11
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19B-2191-11
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19B-2191-11
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19B-2191-11
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	97.0	60.0	-140		GC19B-2191-11
Decachlorobiphenyl	2051-24-3	103	60.0	-140		GC19B-2191-11

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-B

Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50 Sample Matrix: SOIL(TCLP) **Received Date:** 09/18/2014 14:05

Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC19B-2191-	12 SW-846 8081B, Pesticides/TCLP E	extraction M09/27/2014 21:38	MCA	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 μm
Prep 1: 28648	EPA 3535A	09/24/2014 15:00	EPC	200 mL	10.0 mL	NA
Analyte	CAS No.	Result (ug/L)	PQL	Dilution Facto	or Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19B-2191-12
Endrin	72-20-8	ND	0.0500	1.00	U	GC19B-2191-12
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19B-2191-12
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19B-2191-12
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19B-2191-12
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19B-2191-12
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19B-2191-12
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	83.1	60.0	-140		GC19B-2191-12
Decachlorobiphenyl	2051-24-3	102	60.0	-140		GC19B-2191-12

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC - Herbicides





Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-A

Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45 Sample Matrix: SOIL(TCLP)

Received Date: 09/18/2014 14:05

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-245-7	EPA 1978 pg.115 Herbicides/TCLP	Method 1309/29/2014 02:53	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28675	EPA 3510C	09/28/2014 07:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-245-7
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-245-7

			Limits	1		
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{\scriptscriptstyle \mathrm{T}}$	File ID	
2 4-DB	94-82-6	82.5	60.0-140		GC16-245-7	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

Note: Lab modified method.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-B

Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50 Sample Matrix: SOIL(TCLP) **Received Date:** 09/18/2014 14:05

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-245-9	EPA 1978 pg.115 Herbicides/TCLP Method 1	309/29/2014 03:29	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 μm
Prep 1:	28675	EPA 3510C	09/28/2014 07:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-245-9
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-245-9

			Limits			
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID	
2 4-DB	94-82-6	102	60.0-140		GC16-245-9	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

Note: Lab modified method.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Mercury





Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE Project: ALCO

Client Sample ID: D-04-A

Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45 Sample Matrix: SOIL(TCLP) Received Date: 09/18/2014 14:05

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-24	SW-846 7470/TCLP 1311	09/25/2014 16:22	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1692-24

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-B

Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50 Sample Matrix: SOIL(TCLP) Received Date: 09/18/2014 14:05

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-27	SW-846 7470/TCLP 1311	09/25/2014 16:27	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1692-27

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Metals - ICP





Job Number: 14090613

Pace Analytical Services, Inc.

ICP2-1312-91

ICP2-1312-91

ICP2-1312-91

ICP2-1312-91

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Chromium

Selenium

Lead

Silver

Client Sample ID: D-04-A

Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45 Sample Matrix: SOIL(TCLP) Received Date: 09/18/2014 14:05

1.00

1.00

1.00

1.00

U

U

U

U

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1312-91	EPA 6010C/TCLP 1311	09/25/2014 15:49	LMS	NA	NA	NA
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	tor Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1312-91
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1312-91
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1312-91

0.500

0.500

0.250

0.500

ND

ND

ND

ND

7440-47-3

7439-92-1

7782-49-2

7440-22-4

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14090613

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-B

Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50 Sample Matrix: SOIL(TCLP) Received Date: 09/18/2014 14:05

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1312-98	EPA 6010C/TCLP 1311	09/25/2014 16:06	LMS	NA	NA	NA
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1312-98
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1312-98
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1312-98
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1312-98
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1312-98
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1312-98
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1312-98

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)



Quality Control Results Matrix Spike Sample (MS)

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-A MS

Lab Sample ID: 14090613-01M (AR33586M)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19B-2191-10	SW-846 8081B, Pesticides/TCLP Extract	ion M09/27/2014 20:33	MCA	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28648	EPA 3535A	09/24/2014 15:00	EPC	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19B-2191-10
Endrin	72-20-8	0.979	0.0500	1.00		GC19B-2191-10
gamma-BHC	58-89-9	1.03	0.0500	1.00		GC19B-2191-10
Heptachlor	76-44-8	0.971	0.0500	1.00		GC19B-2191-10
Heptachlor Epoxide	1024-57-3	1.02	0.0500	1.00		GC19B-2191-10
Methoxychlor	72-43-5	0.966	0.0500	1.00		GC19B-2191-10
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19B-2191-10

		Sample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	(ug/L)	% Rec.	$\mathbf{Q}^{'}$	(%)	
Endrin	72-20-8		1.00	0.979	97.9		70.0-130	
gamma-BHC	58-89-9		1.00	1.03	103		70.0-130	
Heptachlor	76-44-8		1.00	0.971	97.1		70.0-130	
Heptachlor Epoxide	1024-57-3		1.00	1.02	102		70.0-130	
Methoxychlor	72-43-5		1.00	0.966	96.6		70.0-130	

¹Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Tetrachloro-meta-xylene	877-09-8	91.4	60.0-140	GC19B-2191-10
Decachlorobiphenyl	2051-24-3	101	60.0-140	GC19B-2191-10

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Matrix Spike Sample (MS)

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-A MS

Lab Sample ID: 14090613-01M (AR33586M)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A **Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-245-8	EPA 1978 pg.115 Herbicides/TCLP Method 130	9/29/2014 03:11	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 μm
Prep 1:	28675	EPA 3510C 0	9/28/2014 07:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	10.4	5.00	20.0		GC16-245-8
2,4-D	94-75-7	10.7	5.00	20.0		GC16-245-8

Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MS (ug/L)	MS % Rec.	\mathbf{Q}^{1}	Limits (%)
2,4,5-TP,SILVEX	93-72-1		12.5	10.4	83.2		70.0-130
2,4-D	94-75-7		12.5	10.7	85.9		70.0-130

¹ Qualifier column where **' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

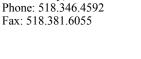
			Limits			
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{^{1}}$	File ID	
2 4-DB	94-82-6	104	60.0-140		GC16-245-8	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

Note: Lab modified method.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Pace Analytical Services, Inc.

2190 Technology Drive

Schenectady, NY 12308



Quality Control Results Matrix Spike Sample (MS)

Job Number: 14090613

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-A MS

Lab Sample ID: 14090613-01M (AR33586M)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-26	SW-846 7470/TCLP 1311	09/25/2014 16:25	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	0.0304	0.0200	1.00		MER1-1692-26

		Sample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	(mg/L)	% Rec.	$\mathbf{Q}^{'}$	(%)	
Mercury	7439-97-6		0.0300	0.0304	101		75.0-125	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Duplicate Sample

Job Number: 14090613

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-04-A DUP

Lab Sample ID: 14090613-01D (AR33586D)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-25	SW-846 7470/TCLP 1311	09/25/2014 16:23	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID	
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1692-25	
						Precision	
		D.,,	nlicato		Samp	le Lim	nits

		Duplicate	Sample	Limits
Analyte	CAS No.	(mg/L)	(mg/L) RPD Q^1	(%)
Mercury	7439-97-6	ND	ND	20

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Matrix Spike Sample (MS)

Job Number: 14090613

Pace Analytical Services, Inc.

Column

ICP2-1312-93

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Silver

Client Sample ID: D-04-A MS

Batch ID

Lab Sample ID: 14090613-01M (AR33586M)

Method

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Analyst Init Wt./Vol. Final Vol.

1.00

Received Date: N/A
Percent Solid: N/A

Analysis 1:	ICP2-1312-93	EPA 6010C/TCLP 1311	09/25/2014 15:54	LMS	NA	NA	NA
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic		7440-38-2	12.9	0.500	1.00		ICP2-1312-93
Barium		7440-39-3	25.4	1.00	1.00		ICP2-1312-93
Cadmium		7440-43-9	5.29	0.100	1.00		ICP2-1312-93
Chromium		7440-47-3	12.6	0.500	1.00		ICP2-1312-93
Lead		7439-92-1	12.8	0.500	1.00		ICP2-1312-93
Selenium		7782-49-2	5.31	0.250	1.00		ICP2-1312-93

0.500

Date

Analyte Spiked	CAS No.	Sample (mg/L)	Added (mg/L)	MS (mg/L)	MS % Rec.	\mathbf{Q}^{1}	Limits (%)
Arsenic	7440-38-2		12.5	12.9	103		75.0-125
Barium	7440-39-3		25.0	25.4	102		75.0-125
Cadmium	7440-43-9		5.00	5.29	106		75.0-125
Chromium	7440-47-3		12.5	12.6	101		75.0-125
Lead	7439-92-1		12.5	12.8	103		75.0-125
Selenium	7782-49-2		5.00	5.31	106		75.0-125
Silver	7440-22-4		12.5	12.8	102		75.0-125

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

12.8

7440-22-4

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Duplicate Sample

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Selenium

Silver

Client Sample ID: D-04-A DUP

Lab Sample ID: 14090613-01D (AR33586D)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	(Column	1
Analysis 1:	ICP2-1312-92	EPA 6010C/TCLP 1311	09/25/2014 15:52	LMS	NA	NA		NA	_
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL		NA	
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Facto	or Flags	File	ID	
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1	312-92	
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1	312-92	
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1	312-92	
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1	312-92	
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1	312-92	
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1	312-92	
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1	312-92	
							Prec	ision	
			Dupl	icate		Sample			Limits
Analyte		CAS No.	(mg			(mg/L)	RPD	$\mathbf{Q}^{^{1}}$	(%)
Arsenic		7440-38-2	ND			ND			20
Barium		7440-39-3	ND			ND			20
Cadmium		7440-43-9	ND			ND			20
Chromium		7440-47-3	ND			ND			20
Lead		7439-92-1	ND			ND			20

ND

ND

7782-49-2

7440-22-4

20

20

ND

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Lab)



Quality Control Results Method Blank

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR33586B-ZHE)

Lab Sample ID: VBLK-04

	Batch ID	Method	Date	Analyst	Init Wt./Vol. Fi	nal Vol.	Column
Analysis 1:	MS10-250-5	EPA 8260C - TCLP-ZHE SW-846 1	311 09/25/2014 09:15	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-250-5
1,2-Dichloro	oethane	107-06-2	ND	10.0	10.0	U	MS10-250-5
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-250-5
Benzene		71-43-2	ND	10.0	10.0	U	MS10-250-5
Carbon Tetr	achloride	56-23-5	ND	10.0	10.0	U	MS10-250-5
Chlorobenze	ene	108-90-7	ND	10.0	10.0	U	MS10-250-5
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-250-5
Tetrachloroe	ethene	127-18-4	ND	10.0	10.0	U	MS10-250-5
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-250-5
Vinyl Chlor	ide	75-01-4	ND	10.0	10.0	U	MS10-250-5
		'		т :	- : 4~		
Surrogate		CAS No.	% Recovery	Lin (%		\mathbf{Q}^1	File ID
4-Bromofluo	orobenzene	460-00-4	95.5	76.0	-128		MS10-250-5
Dibromoflu	oromethane	1868-53-7	103	73.6	-132		MS10-250-5
Toluene-d8		2037-26-5	101		-115		MS10-250-5
1,2-Dichloro	ethane	17060-07-0	102	79.9	-120		MS10-250-5

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR33586L)

Lab Sample ID: LCS-03

		Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
ı	Analysis 1:	MS10-250-4	EPA 8260C - TCLP-ZHE SW-846 1311	09/25/2014 08:42	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	Q' (%)	
1,1-Dichloroethene	75-35-4	40.0	41.5	104	70.0-130	
1,2-Dichloroethane	107-06-2	40.0	40.3	101	70.0-130	
2-Butanone	78-93-3	40.0	38.1	95.4	70.0-130	
Benzene	71-43-2	40.0	39.4	98.6	70.0-130	
Carbon Tetrachloride	56-23-5	40.0	42.0	105	70.0-130	
Chlorobenzene	108-90-7	40.0	41.7	104	70.0-130	
Chloroform	67-66-3	40.0	39.4	98.6	70.0-130	
Tetrachloroethene	127-18-4	40.0	44.4	111	70.0-130	
Trichloroethene	79-01-6	40.0	42.7	107	70.0-130	
Vinyl Chloride	75-01-4	40.0	37.2	92.9	70.0-130	

¹Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

G	GAGN	0/ 5	Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
4-Bromofluorobenzene	460-00-4	104	76.0-128	MS10-250-4
Dibromofluoromethane	1868-53-7	96.9	73.6-132	MS10-250-4
Toluene-d8	2037-26-5	104	84.4-115	MS10-250-4
1,2-Dichloroethane	17060-07-0	95.8	79.9-120	MS10-250-4

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Method Blank

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR33800B)

Lab Sample ID: SBLK-63

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-406-5	SW-846 8270D/TCLP Extraction M		RMS	NA	NA	N/A
Prep 1:	28615	EPA 3510C	09/24/2014 15:00	EPC	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,4-Dichloro	obenzene	106-46-7	ND	50.0	1.00	U	MS09-406-5
2,4,5-Trichle	orophenol	95-95-4	ND	50.0	1.00	U	MS09-406-5
2,4,6-Trichle	orophenol	88-06-2	ND	50.0	1.00	U	MS09-406-5
2,4-Dinitrot	oluene	121-14-2	ND	50.0	1.00	U	MS09-406-5
Hexachlorol	benzene	118-74-1	ND	50.0	1.00	U	MS09-406-5
Hexachlorol	butadiene	87-68-3	ND	50.0	1.00	U	MS09-406-5
Hexachloroe	ethane	67-72-1	ND	50.0	1.00	U	MS09-406-5
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-406-5
Nitrobenzen	_	98-95-3	ND	50.0	1.00	U	MS09-406-5
o-Methylpho	enol	95-48-7	ND	50.0	1.00	U	MS09-406-5
Pentachloro	phenol	87-86-5	ND	50.0	1.00	U	MS09-406-5
Pyridine	-	110-86-1	ND	50.0	1.00	U	MS09-406-5
		,		Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
2,4,6-Tribro	mophenol	118-79-6	68.3	22.8	-161		MS09-406-5
2-Fluorobip	henyl	321-60-8	62.6	26.3	-121		MS09-406-5
2-Fluorophe		367-12-4	42.0	10.0-	-86.4		MS09-406-5
Terphenyl-d	114	1718-51-0	87.4	33.7	-154		MS09-406-5
Nitrobenzen	ie-d5	4165-60-0	74.8	12.7	-139		MS09-406-5
Phenol-d6		13127-88-3	30.4		-87.4		MS09-406-5

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR33800L)

Lab Sample ID: LCS-63

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-406-6	SW-846 8270D/TCLP Extraction Method 131 D9/29	/2014 11:08	RMS	NA	NA	N/A
Prep 1:	28615	EPA 3510C 09/24	/2014 15:00	EPC	200 mL	1.00 mL	NA

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	$\mathbf{Q}^{'}$	(%)	
1,4-Dichlorobenzene	106-46-7	500	274	54.9		27.0-123	
2,4,5-Trichlorophenol	95-95-4	500	358	71.7		30.0-128	
2,4,6-Trichlorophenol	88-06-2	500	328	65.7		37.0-144	
2,4-Dinitrotoluene	121-14-2	500	401	80.1		37.0-121	
Hexachlorobenzene	118-74-1	500	357	71.4		42.0-117	
Hexachlorobutadiene	87-68-3	500	208	41.5		31.0-110	
Hexachloroethane	67-72-1	500	249	49.7		24.0-124	
m&p-Methylphenol	108-39-4/106-44-5	1000	580	58.0		22.0-139	
Nitrobenzene	98-95-3	500	376	75.3		34.0-119	
o-Methylphenol	95-48-7	500	306	61.2		26.0-128	
Pentachlorophenol	87-86-5	500	381	76.2		4.00-113	
Pyridine	110-86-1	500	149	29.8		1.00-105	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
2,4,6-Tribromophenol	118-79-6	87.2	22.8-161	MS09-406-6
2-Fluorobiphenyl	321-60-8	70.5	26.3-121	MS09-406-6
2-Fluorophenol	367-12-4	49.9	10.0-86.4	MS09-406-6
Terphenyl-d14	1718-51-0	98.4	33.7-154	MS09-406-6
Nitrobenzene-d5	4165-60-0	87.4	12.7-139	MS09-406-6
Phenol-d6	13127-88-3	34.9	10.0-87.4	MS09-406-6

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Job Number: 14090613

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR33586B)

Pace Analytical®

Lab Sample ID: PBLK-82

Batch	ı ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC20F-	-2016-6	SW-846 8082A (PCB)	09/29/2014 19:40	KEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 28697		EPA 3545A	09/29/2014 08:42	MH	10.2 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1221		11104-28-2	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1232		11141-16-5	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1242		53469-21-9	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1248		12672-29-6	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1254		11097-69-1	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1260		11096-82-5	ND	0.0500	1.00	U	GC20F-2016-6
Total PCB Amount >	RL	1336-36-3	ND		1.00	U	GC20F-2016-6
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
Tetrachloro-meta-xyle	ene	877-09-8	99.2	60.0	-140		GC20F-2016-6
Decachlorobiphenyl		2051-24-3	122	60.0	-140		GC20F-2016-6

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR33586L)

Lab Sample ID: LCS-82

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2016-7	SW-846 8082A (PCB)	09/29/2014 19:52	KEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1:	28697	EPA 3545A	09/29/2014 08:42	MH	10.3 g	25.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	% Rec.	$\mathbf{Q}^{^{1}}$ (%)	
Aroclor 1242	53469-21-9	1.21	1.15	95.2	70.0-130	

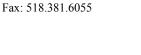
¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q¹ File ID
Tetrachloro-meta-xylene	877-09-8	98.4	60.0-140	GC20F-2016-7
Decachlorobiphenyl	2051-24-3	122	60.0-140	GC20F-2016-7

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Pace Analytical Services, Inc.

2190 Technology Drive

Schenectady, NY 12308

Phone: 518.346.4592



Quality Control Results Method Blank

Job Number: 14090613

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR33586B)

Lab Sample ID: TBLK-86

Batch ID) Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC19B-219	1-8 SW-846 8081B, Pesticides/TCLP I	Extraction M09/27/2014 19:28	MCA	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1: 28648	EPA 3535A	09/24/2014 15:00	EPC	200 mL	10.0 mL	NA
Analyte	CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19B-2191-8
Endrin	72-20-8	ND	0.0500	1.00	U	GC19B-2191-8
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19B-2191-8
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19B-2191-8
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19B-2191-8
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19B-2191-8
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19B-2191-8
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	94.7	60.0	-140		GC19B-2191-8
Decachlorobiphenyl	2051-24-3	102	60.0	-140		GC19B-2191-8

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR33586L)

Lab Sample ID: LCS-86

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19B-2191-9	SW-846 8081B, Pesticides/TCLP Extraction M	09/27/2014 20:01	MCA	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 μm
Prep 1:	28648	EPA 3535A (09/24/2014 15:00	EPC	200 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q Limits (%)	
Endrin	72-20-8	1.00	0.781	78.1	70.0-130	
gamma-BHC	58-89-9	1.00	0.939	93.9	70.0-130	
Heptachlor	76-44-8	1.00	0.794	79.4	70.0-130	
Heptachlor Epoxide	1024-57-3	1.00	0.847	84.7	70.0-130	
Methoxychlor	72-43-5	1.00	0.772	77.2	70.0-130	

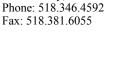
¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Tetrachloro-meta-xylene	877-09-8	82.8	60.0-140	GC19B-2191-9
Decachlorobiphenyl	2051-24-3	74.8	60.0-140	GC19B-2191-9

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Pace Analytical Services, Inc.

2190 Technology Drive

Schenectady, NY 12308



Quality Control Results Method Blank

Job Number: 14090613

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR33586B)

Lab Sample ID: HBLK-80

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-245-5	EPA 1978 pg.115 Herbicides/TCLP Method	1309/29/2014 02:17	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28675	EPA 3510C	09/28/2014 07:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-245-5
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-245-5

			Limits	1		
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{\scriptscriptstyle \mathrm{T}}$	File ID	
2 4-DB	94-82-6	89.3	60.0-140		GC16-245-5	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

Note: Lab modified method.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR33586L)

Lab Sample ID: LCS-80

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-245-6	EPA 1978 pg.115 Herbicides/TCLP Method 1309/29/2014 02:	35 JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28675	EPA 3510C 09/28/2014 07:	00 MH	200 mL	5.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q Limits (%)
2,4,5-TP,SILVEX	93-72-1	12.5	9.64	77.1	70.0-130
2,4-D	94-75-7	12.5	10.0	80.3	70.0-130

¹ Qualifier column where 1st denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits			
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{^{1}}$	File ID	
2 4-DB	94-82-6	89.3	60.0-140		GC16-245-6	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

Note: Lab modified method.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14090613

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR33586B)

Lab Sample ID: PBW-82

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-20	SW-846 7470/TCLP 1311	09/25/2014 16:15	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1692-20

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR33586L)

Lab Sample ID: LCS-82

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-21	SW-846 7470/TCLP 1311	09/25/2014 16:16	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

		Added	LCS	LCS	Limit
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	Q' (%)
Mercury	7439-97-6	0.0300	0.0304	101	80.0-12

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14090613

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR33586B)

Lab Sample ID: PBW-81

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1312-86	EPA 6010C/TCLP 1311	09/25/2014 15:37	LMS	NA	NA	NA
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1312-86
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1312-86
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1312-86
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1312-86
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1312-86
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1312-86
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1312-86

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14090613

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR33586L)

Lab Sample ID: LCS-81

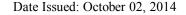
	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1312-87	EPA 6010C/TCLP 1311	09/25/2014 15:40	LMS	NA	NA	NA
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL	NA

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	$\mathbf{Q}^{'}$	(%)	
Arsenic	7440-38-2	12.5	12.9	104		85.0-115	
Barium	7440-39-3	25.0	25.2	101		85.0-115	
Cadmium	7440-43-9	5.00	5.40	108		85.0-115	
Chromium	7440-47-3	12.5	12.8	103		85.0-115	
Lead	7439-92-1	12.5	13.1	105		85.0-115	
Selenium	7782-49-2	5.00	5.37	107		85.0-115	
Silver	7440-22-4	12.5	13.0	104		85.0-115	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): September 23, 2014

Lab Report ID: 14090712

Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS (TCLP)
SVOCs by GCMS (TCLP)
Herbicides (TCLP)
PCB Analysis
Pesticide Analysis (TCLP)
Mercury Analysis (TCLP)
Metals by ICP (TCLP- RCRA)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfelger

Dan Pfalzer Laboratory Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 14090712) consists of 1 soil sample received on 09/23/2014. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	Collection Date
AR34433	D-05	09/23/2014 10:45

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 09/23/2014.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Herbicide Analysis (TCLP)

Analysis for herbicides was performed by EPA 1978 pg.115. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Pesticide Analysis (TCLP)

Analysis for pesticides was performed by method SW-846 8081B. Samples were extracted by USEPA SW-846 Method 3535A Solid Phase Extraction. One-liter water samples were extracted by PACE SOP NE178_04. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Metals Analysis by ICP

Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Respectfully submitted,

Kelly A. miller

Kelly A. Miller

Project Manager

QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate recovery not evaluated against control limits due to sample dilution.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

Inorganic Laboratory Qualifiers

- B Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY



New York Office 2190 Technology Dr. Schenectady, NY 12308 (518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

<1409071ZP1>

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

	Section B Required Proj	ect Info	rmation.		Section	1 C nformatio	n:																			-	P	age:	1	of	1	_
	Report To: An				Attentio			ounts	Pay	able				I							RE(GUI	AT	OR	ΥA	GE	NC'	Y			•	
Address: 10 Airline Drive, Suite 200	Copy To: Na	than S	haffer		Compan	y Name:	Bar	ton a	nd Lo	guidio	e, [OPC		Ī	Г	NPDI	ES	Г	GF										ATER			
Albany, NY 12205					Address				Davis R ′, 13220		x 310)7			_	UST		-	. RC	RA				Times .	TC	THER						
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	Project Name:	ALC	0		Pace Proje	ect Manage	er:	Kelly	Mille	r						Ĺ	OC.	ATIO	NC			T.	OH	ı	Γ :	3C	Γ.,	۷I	רכ 🎵	THER_		
Requested Standard Due Date/TAT:	Project Number:	1368	3.001.001		Pace Pro	ofile #:									Filter	ed (Y	/N)	\angle	//	\mathbb{Z}	7/	7	7	7/	Z	77	77	\mathbb{Z}	///	I/		
Section D Valid Matrix Codes Required Client Information Valid Matrix Codes MATRIX CO		₽ de		COLL	ECTED		Ļ	SS		Pre	serv	atives		7	Requ	este	j /		7/	7	77	7	7,	77	7	Τ	77	7,		7		
SAMPLE ID (A-Z, 0-9 /,-) Sample IDs MUST BE UNIQUE Sample IDs MUST BE UNIQUE SRINGING WATER WATER WATER WATER WE PRODUCT SINGUIS- WIFE WIFE WIFE WIFE WIFE WIFE WIFE WIFE	w S	SAMPLE TYPE G=GRAB C=COMP	COMI STA	POSITE	COMPO END/G	OSITE	SAMPLE TEMP A COLLECTION	# OF CONTAINERS	Unpreserved			NaOH Na ₂ S ₂ O ₃	Methanol	Other	Anaiy /	sis:		7] 	/							/ _/ /		Residen	Chlorine (1970)	Pac	e Project N Lab I.I	
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Sample Condition Upon Receipt



						CLIE	ENT NAME: &	er-ALb	140901122
						PRC	DIECT: AC	ر.	
PACKING #	ient ⊭ – Bubble Ba un 03(X No □		Other OY SEAL PRES None 7967		No le COOLER TI	`ICE EMPI Tem	INTACT: Yes □ USED: Wet & ERATURE (°C): np should be abov		N/AAr None □
Chain of Custody Present:	√ ZÎYes	□No		1.					
Chain of Custody Filled Out:)⊠Yes	□No		2.					
Chain of Custody Relinquished:	√ZiYes	□No		3.					
Sampler Name / Signature on COC:	□Yes	DXNo		4.			·		·
Samples Arrived within Hold Time:	X¥ces	□No		5.					
Short Hold Time Analysis (<72hr):	□Yes	□No		6.					
Rush Turn Around Time Requested:	□Yes	5 /No		7.					
Sufficient Volume:	ĭX¥Yes	□No		8.					
Correct Containers Used:	Yes	□No		9.					
- Pace Containers Used:	X(Yes	□No							
Containers Intact:	X(Yes	□No		10.					
iltered volume received for Dissolved test	S: □ _{Yes}	□No	⊠ N/A	11.		-	·		***
Sample Labels match COC: - Includes date/time/ID/Analysis	Yes	□No		12.					
All containers needing preservation have bee checked:	n □Yes	□no	⊠ N/A	13.					
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	□Yes	□No	⊠ N/A	Initial whe			Lot # 0 	f added prese んり	rvative:
leadspace in VOA Vials (>6mm):	□Yes	□No	X N/A	14.			<u></u>	<u> </u>	
Trip Blank Present:	□Yes	□No	∑ N/A	15.					
rip Blank Custody Seals Present: Pace Trip Blank Lot #:	□Yes	□No	XN/A		•				
Sample Receipt form filled in: <u>ぱァ</u> ?		Log In (I	ncludes not	ifying PM of a	any discrepa	icies a	nd verifying samp and documenting LAB IDs into pH lo	in LIMS):	137 9/23/14 15 9/23/14

SAMPLE RECEIPT





SAMPLE RECEIPT REPORT 14090712

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

COC DISCREPANCY: NO

Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE

PROJECT: ALCO LRF: 14090712

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: 7 DAYS RECEIVED DATE: 09/23/2014 11:04

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,2}SAMPLES PRESERVED PER METHOD GUIDANCE: YES ³ SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID: BAR ALB **DISPOSAL:** BY LAB (45 DAYS) NUMBER OF COOLERS: 1

CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED TEMPERATURE(S): ⁵8.5 °C

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-05 (AR34433)	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	

The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.

Reporting Parameters and Lists

EPA 1978 p.115 - Herbicides (TCLP) - (ug/L)

2,4,5-TP,SILVEX

2.4-D

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)

Arsenic Barium Cadmium Chromium Lead Selenium Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)

Mercury

EPA 8081B - Pesticide Analysis (TCLP) - (ug/L)

Chlordane Endrin gamma-BHC Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260

Total PCB Amount > RL

EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)

1.1-Dichloroethene 1,2-Dichloroethane 2-Butanone

Benzene Carbon Tetrachloride Chlorobenzene Chloroform Tetrachloroethene Trichloroethene Vinyl Chloride

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)

1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane m&p-Methylphenol Nitrobenzene o-Methylphenol Pentachlorophenol

Pyridine

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²The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

³Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it 4 is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

GC/MS Volatiles



Analytical Sample Results

Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-05

Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45 Sample Matrix: SOIL(TCLP) Received Date: 09/23/2014 11:04

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-255-20	EPA 8260C - TCLP-ZHE SW-846 13			NA	NA NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Atharysis 1.	WIS10-233-20	ETA 6200C - TCET-ETIE 5W-040 T	311 0/12/12014 17:33	1311	1471		Колса, Кол-тино, 40 ш, 0.16 шш 12, 1.00 шш
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,1-Dichloroe	thene	75-35-4	ND	10.0	10.0	U	MS10-255-20
1,2-Dichloroe	thane	107-06-2	ND	10.0	10.0	U	MS10-255-20
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-255-20
Benzene		71-43-2	ND	10.0	10.0	U	MS10-255-20
Carbon Tetrac	chloride	56-23-5	ND	10.0	10.0	U	MS10-255-20
Chlorobenzen	e	108-90-7	ND	10.0	10.0	U	MS10-255-20
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-255-20
Tetrachloroetl	nene	127-18-4	ND	10.0	10.0	U	MS10-255-20
Trichloroether	ne	79-01-6	ND	10.0	10.0	U	MS10-255-20
Vinyl Chlorid	e	75-01-4	ND	10.0	10.0	U	MS10-255-20
-							
				Lin		1	
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
4-Bromofluor	obenzene	460-00-4	95.0	76.0	-128		MS10-255-20
Dibromofluor	omethane	1868-53-7	106	73.6	-132		MS10-255-20
Toluene-d8		2037-26-5	98.1	84.4	-115		MS10-255-20
1,2-Dichloroe	thane	17060-07-0	104	79.9	-120		MS10-255-20

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC/MS Semivolatiles



Analytical Sample Results

Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-05

Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45 Sample Matrix: SOIL(TCLP) **Received Date:** 09/23/2014 11:04

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-412-22	SW-846 8270D/TCLP Extraction M		RMS	NA	NA	N/A
Prep 1:	28699	EPA 3510C	09/27/2014 11:20	KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	tor Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-412-22
2,4,5-Trichlo	orophenol	95-95-4	ND	50.0	1.00	U	MS09-412-22
2,4,6-Trichlo	orophenol	88-06-2	ND	50.0	1.00	U	MS09-412-22
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS09-412-22
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-412-22
Hexachlorob	outadiene	87-68-3	ND	50.0	1.00	U	MS09-412-22
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-412-22
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-412-22
Nitrobenzen	e	98-95-3	ND	50.0	1.00	U	MS09-412-22
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-412-22
Pentachlorop	henol	87-86-5	ND	50.0	1.00	U	MS09-412-22
Pyridine		110-86-1	ND	50.0	1.00	U	MS09-412-22
				т.	•.		
C		CACNI	0/ D	Lin		\mathbf{o}^1	E1. ID
Surrogate		CAS No.	% Recovery	(%	<u>′</u>	\mathbf{Q}^{1}	File ID
2,4,6-Tribro		118-79-6	99.1	22.8			MS09-412-22
2-Fluorobipl		321-60-8	75.3	26.3			MS09-412-22
2-Fluorophe		367-12-4	49.6	10.0-			MS09-412-22
Terphenyl-d		1718-51-0	99.9	33.7			MS09-412-22
Nitrobenzen	e-d5	4165-60-0	74.7	12.7			MS09-412-22
Phenol-d6		13127-88-3	35.1	10.0-	87.4		MS09-412-22

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC - PCB



Analytical Sample Results

Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-05

Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45

Sample Matrix: SOIL

Received Date: 09/23/2014 11:04

Percent Solid: 9.50 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC21F-2338-2	5 SW-846 8082A (PCB)	10/01/2014 15:09	JEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 28732	EPA 3545A	09/30/2014 19:05	KFM	10.2 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1221	11104-28-2	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1232	11141-16-5	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1242	53469-21-9	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1248	12672-29-6	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1254	11097-69-1	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1260	11096-82-5	ND	0.515	1.00	U	GC21F-2338-25
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC21F-2338-25
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	86.3	60.0	-140		GC21F-2338-25
Decachlorobiphenyl	2051-24-3	64.3	60.0	-140		GC21F-2338-25

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC - Pesticides





Analytical Sample Results

Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-05

Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45 Sample Matrix: SOIL(TCLP) **Received Date:** 09/23/2014 11:04

Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC19F-2074	4-11 SW-846 8081B, Pesticides/TCLP	Extraction M09/28/2014 22:38	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 μm
Prep 1: 28660	EPA 3535A	09/27/2014 11:20	KEN	200 mL	10.0 mL	NA
Analyte	CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2074-11
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2074-11
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2074-11
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2074-11
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2074-11
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2074-11
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2074-11
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	107	60.0	-140		GC19F-2074-11
Decachlorobiphenyl	2051-24-3	98.3	60.0	-140		GC19F-2074-11

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC - Herbicides





Analytical Sample Results

Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-05

Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45 Sample Matrix: SOIL(TCLP) Received Date: 09/23/2014 11:04

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-246-7	EPA 1978 pg.115 Herbicides/TCLP Method 130	9/30/2014 10:19	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28676	EPA 3510C 0	9/28/2014 10:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-246-7
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-246-7

			Limits	1		
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{\scriptscriptstyle \mathrm{T}}$	File ID	
2 4-DB	94-82-6	94.5	60.0-140		GC16-246-7	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

Note: Lab modified method.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Mercury





Analytical Sample Results

Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO **Client Sample ID:** D-05

Lab Sample ID: 14090712-01 (AR34433)

:D-05

Collection Date: 09/23/2014 10:45 Sample Matrix: SOIL(TCLP) Received Date: 09/23/2014 11:04

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1696-16	SW-846 7470/TCLP 1311	09/29/2014 15:16	CYC	NA	NA	NA
Prep 1:	5010	EPA 7470A	09/29/2014 09:31	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1696-16

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Metals - ICP





Analytical Sample Results

Job Number: 14090712

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-05

Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45 Sample Matrix: SOIL(TCLP) Received Date: 09/23/2014 11:04

Percent Solid: N/A

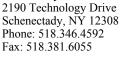
	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1318-38	EPA 6010C/TCLP 1311	09/30/2014 11:44	LMS	NA	NA	NA
Prep 1:	5009	EPA 3005A	09/29/2014 09:16	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1318-38
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1318-38
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1318-38
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1318-38
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1318-38
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1318-38
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1318-38

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)

Pace Analytical Services, Inc. October 02, 2014 14090712 - Page 28 of 47



Pace Analytical Services, Inc.



Quality Control Results Matrix Spike Sample (MS)

Job Number: 14090712

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-05 MS

Lab Sample ID: 14090712-01M (AR34433M)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1696-18	SW-846 7470/TCLP 1311	09/29/2014 15:19	CYC	NA	NA	NA
Prep 1:	5010	EPA 7470A	09/29/2014 09:31	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID	
Mercury	7439-97-6	0.0300	0.0200	1.00		MER1-1696-18	

		Sample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	(mg/L)	% Rec.	$\mathbf{Q}^{^{1}}$	(%)	
Mercury	7439-97-6		0.0300	0.0300	100		75.0-125	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Duplicate Sample

Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-05 DUP

Lab Sample ID: 14090712-01D (AR34433D)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1696-17	SW-846 7470/TCLP 1311	09/29/2014 15:17	CYC	NA	NA	NA
Prep 1:	5010	EPA 7470A	09/29/2014 09:31	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID	
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1696-17	
						Precision	

Analyte	CAS No.	Duplicate (mg/L)	Sample (mg/L) RPD Q	Limits (%)
Mercury	7439-97-6	ND	ND	20

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Matrix Spike Sample (MS)

Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-05 MS

Lab Sample ID: 14090712-01M (AR34433M)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1318-40	EPA 6010C/TCLP 1311	09/30/2014 11:49	LMS	NA	NA	NA
Prep 1:	5009	EPA 3005A	09/29/2014 09:16	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fac	tor Flags	File ID

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	13.0	0.500	1.00		ICP2-1318-40
Barium	7440-39-3	26.4	1.00	1.00		ICP2-1318-40
Cadmium	7440-43-9	5.23	0.100	1.00		ICP2-1318-40
Chromium	7440-47-3	12.4	0.500	1.00		ICP2-1318-40
Lead	7439-92-1	12.5	0.500	1.00		ICP2-1318-40
Selenium	7782-49-2	5.50	0.250	1.00		ICP2-1318-40
Silver	7440-22-4	12.4	0.500	1.00		ICP2-1318-40

Analyte Spiked	CAS No.	Sample (mg/L)	Added (mg/L)	MS (mg/L)	MS % Rec.	$\mathbf{Q}^{^{1}}$	Limits (%)
Arsenic	7440-38-2		12.5	13.0	104		75.0-125
Barium	7440-39-3		25.0	26.4	106		75.0-125
Cadmium	7440-43-9		5.00	5.23	105		75.0-125
Chromium	7440-47-3		12.5	12.4	99.3		75.0-125
Lead	7439-92-1		12.5	12.5	99.9		75.0-125
Selenium	7782-49-2		5.00	5.50	110		75.0-125
Silver	7440-22-4		12.5	12.4	98.9		75.0-125

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Duplicate Sample

Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Lead

Silver

Selenium

Client Sample ID: D-05 DUP

Lab Sample ID: 14090712-01D (AR34433D)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	(Column	1
Analysis 1:	ICP2-1318-39	EPA 6010C/TCLP 1311	09/30/2014 11:46	LMS	NA	NA		NA	
Prep 1:	5009	EPA 3005A	09/29/2014 09:16	CYC	10.0 mL	50.0 mL		NA	
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or Flags	File	ID	
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1	318-39	
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1	318-39	
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1	318-39	
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1	318-39	
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1	318-39	
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1	318-39	
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1	318-39	
							Prec	ision	
			Dupl	licate		Sample			Limits
Analyte		CAS No.	(mg			(mg/L)	RPD	$\mathbf{Q}^{^{1}}$	(%)
Arsenic		7440-38-2	ND			ND			20
Barium		7440-39-3	ND			ND			20
Cadmium		7440-43-9	ND			ND			20
Chromium		7440-47-3	ND			ND			20

ND

ND

ND

7439-92-1

7782-49-2

7440-22-4

20

20

20

ND

ND

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Lab)



Quality Control Results Lab Control Sample (LCS)

Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR33572L)

Lab Sample ID: LCS-94

Collection Date: N/A Sample Matrix: TCLP Received Date: N/A Percent Solid: N/A

		Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
U	Analysis 1:	MS10-255-4	EPA 8260C - TCLP-ZHE SW-846 1311	09/29/2014 10:14	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	\mathbf{Q}^1	Limits (%)
1,1-Dichloroethene	75-35-4	40.0	39.9	99.7		70.0-130
1,2-Dichloroethane	107-06-2	40.0	41.0	102		70.0-130
2-Butanone	78-93-3	40.0	35.7	89.1		70.0-130
Benzene	71-43-2	40.0	41.4	104		70.0-130
Carbon Tetrachloride	56-23-5	40.0	43.5	109		70.0-130
Chlorobenzene	108-90-7	40.0	42.0	105		70.0-130
Chloroform	67-66-3	40.0	41.1	103		70.0-130
Tetrachloroethene	127-18-4	40.0	43.6	109		70.0-130
Trichloroethene	79-01-6	40.0	42.8	107		70.0-130
Vinyl Chloride	75-01-4	40.0	45.2	113		70.0-130

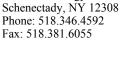
¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits			
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID		
4-Bromofluorobenzene	460-00-4	98.6	76.0-128	MS10-255-4		
Dibromofluoromethane	1868-53-7	102	73.6-132	MS10-255-4		
Toluene-d8	2037-26-5	99.4	84.4-115	MS10-255-4		
1.2-Dichloroethane	17060-07-0	100	79.9-120	MS10-255-4		

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Pace Analytical Services, Inc.

2190 Technology Drive



Quality Control Results Method Blank

Job Number: 14090712

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR34433B-ZHE)

Lab Sample ID: VBLK-94

Collection Date: N/A Sample Matrix: TCLP Received Date: N/A Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol. Fi	nal Vol.	Column
Analysis 1:	MS10-255-7	EPA 8260C - TCLP-ZHE SW-846 1	311 09/29/2014 11:41	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-255-7
1,2-Dichloro	oethane	107-06-2	ND	10.0	10.0	U	MS10-255-7
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-255-7
Benzene		71-43-2	ND	10.0	10.0	U	MS10-255-7
Carbon Tetrachloride		56-23-5	ND	10.0	10.0	U	MS10-255-7
Chlorobenzene		108-90-7	ND	10.0	10.0	U	MS10-255-7
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-255-7
Tetrachloroe	ethene	127-18-4	ND	10.0	10.0	U	MS10-255-7
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-255-7
Vinyl Chlor	ide	75-01-4	ND	10.0	10.0	U	MS10-255-7
				Lin	nite		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
4-Bromofluo	orobenzene	460-00-4	99.8	76.0	-128		MS10-255-7
Dibromofluoromethane		1868-53-7	104	73.6-132		MS10-255-7	
Toluene-d8		2037-26-5	94.7	84.4	-115		MS10-255-7
1,2-Dichloroethane		17060-07-0	103	79.9-120 MS10-255-7		MS10-255-7	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Method Blank

Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR34535B)

Lab Sample ID: SBLK-71

Collection Date: N/A Sample Matrix: TCLP Received Date: N/A Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-412-18	SW-846 8270D/TCLP Extraction M	ethod 131109/30/2014 13:12	RMS	NA	NA	N/A
Prep 1:	28699	EPA 3510C	09/27/2014 11:20	KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-412-18
2,4,5-Trichlo	rophenol	95-95-4	ND	50.0	1.00	U	MS09-412-18
2,4,6-Trichlo	prophenol	88-06-2	ND	50.0	1.00	U	MS09-412-18
2,4-Dinitroto	luene	121-14-2	ND	50.0	1.00	U	MS09-412-18
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-412-18
Hexachlorob	utadiene	87-68-3	ND	50.0	1.00	U	MS09-412-18
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-412-18
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-412-18
Nitrobenzene	-	98-95-3	ND	50.0	1.00	U	MS09-412-18
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-412-18
Pentachlorop		87-86-5	ND	50.0	1.00	U	MS09-412-18
Pyridine		110-86-1	ND	50.0	1.00	U	MS09-412-18
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
2,4,6-Tribroi	mophenol	118-79-6	85.1	22.8	<u> </u>		MS09-412-18
2-Fluorobiphenyl		321-60-8	67.2	26.3	-121		MS09-412-18
2-Fluorophenol		367-12-4	38.8	10.0-	10.0-86.4		MS09-412-18
Terphenyl-d14		1718-51-0	103	33.7	-154		MS09-412-18
Nitrobenzene	e-d5	4165-60-0	66.0	12.7	-139		MS09-412-18
Phenol-d6		13127-88-3	28.4		-87.4		MS09-412-18

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR34535L)

Lab Sample ID: LCS-71

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-412-19	SW-846 8270D/TCLP Extraction Method 131 09	/30/2014 13:27	RMS	NA	NA	N/A
Prep 1:	28699	EPA 3510C 09/	27/2014 11:20	KEN	200 mL	1.00 mL	NA

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	\mathbf{Q}'	(%)	
1,4-Dichlorobenzene	106-46-7	500	215	42.9		27.0-123	
2,4,5-Trichlorophenol	95-95-4	500	301	60.2		30.0-128	
2,4,6-Trichlorophenol	88-06-2	500	283	56.5		37.0-144	
2,4-Dinitrotoluene	121-14-2	500	309	61.8		37.0-121	
Hexachlorobenzene	118-74-1	500	337	67.4		42.0-117	
Hexachlorobutadiene	87-68-3	500	190	37.9		31.0-110	
Hexachloroethane	67-72-1	500	187	37.5		24.0-124	
m&p-Methylphenol	108-39-4/106-44-5	1000	451	45.1		22.0-139	
Nitrobenzene	98-95-3	500	247	49.4		34.0-119	
o-Methylphenol	95-48-7	500	237	47.5		26.0-128	
Pentachlorophenol	87-86-5	500	354	70.9		4.00-113	
Pyridine	110-86-1	500	79.1	15.8		1.00-105	

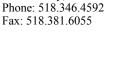
¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
2,4,6-Tribromophenol	118-79-6	75.0	22.8-161	MS09-412-19
2-Fluorobiphenyl	321-60-8	56.6	26.3-121	MS09-412-19
2-Fluorophenol	367-12-4	35.5	10.0-86.4	MS09-412-19
Terphenyl-d14	1718-51-0	83.2	33.7-154	MS09-412-19
Nitrobenzene-d5	4165-60-0	57.5	12.7-139	MS09-412-19
Phenol-d6	13127-88-3	25.9	10.0-87.4	MS09-412-19

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Pace Analytical Services, Inc.

2190 Technology Drive

Schenectady, NY 12308



Quality Control Results Method Blank

Job Number: 14090712

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR34433B)

Lab Sample ID: PBLK-03

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC21F-2338-	23 SW-846 8082A (PCB)	10/01/2014 14:44	JEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 28732	EPA 3545A	09/30/2014 19:04	KFM	10.2 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Facto	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC21F-2338-23
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC21F-2338-23
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	\mathbf{Q}^1	File ID
Tetrachloro-meta-xylene	877-09-8	101	60.0	-140		GC21F-2338-23
Decachlorobiphenyl	2051-24-3	108	60.0	-140		GC21F-2338-23

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR34433L)

Lab Sample ID: LCS-03

	Batch ID Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC21F-2338-24 SW-846 8082A (PCB)	10/01/2014 14:57	JEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28732 EPA 3545A	09/30/2014 19:05	KFM	10.0 g	25.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	% Rec.	$\mathbf{Q}^{\scriptscriptstyle 1}$ (%)	
Aroclor 1242	53469-21-9	1.25	1.23	99.1	70.0-130	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Tetrachloro-meta-xylene	877-09-8	103	60.0-140	GC21F-2338-24
Decachlorobiphenyl	2051-24-3	111	60.0-140	GC21F-2338-24

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14090712

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR34444B)

Lab Sample ID: TBLK-87

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC19F-2074	-7 SW-846 8081B, Pesticides/TCLP I	Extraction M09/28/2014 20:28	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1: 28660	EPA 3535A	09/27/2014 11:20	KEN	200 mL	10.0 mL	NA
Analyte	CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2074-7
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2074-7
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2074-7
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2074-7
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2074-7
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2074-7
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2074-7
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	99.9	60.0	-140		GC19F-2074-7
Decachlorobiphenyl	2051-24-3	94.8	60.0	-140		GC19F-2074-7

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR34444L)

Lab Sample ID: LCS-87

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2074-8	SW-846 8081B, Pesticides/TCLP Extraction M09	/28/2014 21:01	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28660	EPA 3535A 09	/27/2014 11:20	KEN	200 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q Limits (%)	
Endrin	72-20-8	1.00	0.875	87.5	70.0-130	
gamma-BHC	58-89-9	1.00	0.961	96.1	70.0-130	
Heptachlor	76-44-8	1.00	0.852	85.2	70.0-130	
Heptachlor Epoxide	1024-57-3	1.00	0.970	97.0	70.0-130	
Methoxychlor	72-43-5	1.00	0.918	91.8	70.0-130	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q File ID
Tetrachloro-meta-xylene	877-09-8	88.3	60.0-140	GC19F-2074-8
Decachlorobiphenyl	2051-24-3	65.3	60.0-140	GC19F-2074-8

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14090712

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR34433B)

Pace Analytical®

Lab Sample ID: HBLK-81

Collection Date: N/A Sample Matrix: TCLP Received Date: N/A Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-246-5	EPA 1978 pg.115 Herbicides/TCLP Method	309/30/2014 09:43	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 μm
Prep 1:	28676	EPA 3510C	09/28/2014 10:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-246-5
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-246-5

			Limits	-1	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID	
2 4-DB	94-82-6	75.0	60.0-140	GC16-246-5	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

Note: Lab modified method.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR34433L)

Lab Sample ID: LCS-81

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-246-6	EPA 1978 pg.115 Herbicides/TCLP Method 13	09/30/2014 10:01	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28676	EPA 3510C	09/28/2014 10:00	MH	200 mL	5.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q Limits (%)
2,4,5-TP,SILVEX	93-72-1	12.5	10.9	86.9	70.0-130
2,4-D	94-75-7	12.5	11.4	90.9	70.0-130

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits			
Surrogate	CAS No.	% Recovery	(%)	$\mathbf{Q}^{^{\mathrm{I}}}$	File ID	
2 4-DB	94-82-6	103	60.0-140		GC16-246-6	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

Note: Lab modified method.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14090712

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR34433B)

Lab Sample ID: PBW-91

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1696-14	SW-846 7470/TCLP 1311	09/29/2014 15:12	CYC	NA	NA	NA
Prep 1:	5010	EPA 7470A	09/29/2014 09:31	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1696-14

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR34433L)

Lab Sample ID: LCS-91

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analy	ysis 1: MER1-1696-15	SW-846 7470/TCLP 1311	09/29/2014 15:14	CYC	NA	NA	NA
Prep	1: 5010	EPA 7470A	09/29/2014 09:31	CYC	4.00 mL	40.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	Q ¹ (%)	
Mercury	7439-97-6	0.0300	0.0303	101	80.0-120	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14090712

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR34433B)

Lab Sample ID: PBW-90

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1318-29	EPA 6010C/TCLP 1311	09/30/2014 11:21	LMS	NA	NA	NA
Prep 1:	5009	EPA 3005A	09/29/2014 09:16	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1318-29
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1318-29
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1318-29
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1318-29
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1318-29
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1318-29
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1318-29

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14090712

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR34433L)

Lab Sample ID: LCS-90

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1318-30	EPA 6010C/TCLP 1311	09/30/2014 11:23	LMS	NA	NA	NA
Prep 1:	5009	EPA 3005A	09/29/2014 09:16	CYC	10.0 mL	50.0 mL	NA

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	$\mathbf{Q}^{'}$	(%)	
Arsenic	7440-38-2	12.5	13.4	107		85.0-115	
Barium	7440-39-3	25.0	26.9	108		85.0-115	
Cadmium	7440-43-9	5.00	5.51	110		85.0-115	
Chromium	7440-47-3	12.5	13.0	104		85.0-115	
Lead	7439-92-1	12.5	13.1	105		85.0-115	
Selenium	7782-49-2	5.00	5.61	112		85.0-115	
Silver	7440-22-4	12.5	12.7	102		85.0-115	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Pace Analytical e-Report

*Issuance of this report is prior to full data package.

Report prepared for:

BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205

CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): October 17, 2014

Lab Report ID: 14100601

Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included: VOCs by GCMS Mercury Analysis Metals by ICP (Custom)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within the document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Jan Pfelger

Dan Pfalzer Laboratory Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate recovery not evaluated against control limits due to sample dilution.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

Inorganic Laboratory Qualifiers

- B Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY



New York Office 2190 Technology Dr. Schenectady, NY 12308 (518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<14100601P1>

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								/ /					7)	-	-1	VUZ.	ر مل <i>ك</i> /	1	t		_)	· -/	, ,	/ 	+	10	-			7	<u> </u>	× × ×		
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						SAMPLE	R NAME	AND SIG	ANE	TURE																	╘				-	+				\neg
					L			AMPLER AMPLER												DAT	TE Sig	gned									Temp in °C		Received on Ice	Custody ealed Cooler	Samples	Intact



Sample Condition Upon Receipt

<14100601P2>

CLIENT NAME: B 3

_	141006012

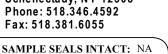
					PR	OJECT: ALC		
, 7 A	ient 🎸	Pace 🗆	Othe	`		_		
TRACKING # P / P	_	CUSTO	DY SEAL PR	ESENT: Yes	No □	INTACT: Yes 🕱	No □	N/A □
PACKING MATERIAL: Bubble Wrap	Bubble Ba	ags 🗆	None	Other 🗆	ICE	USED: Wet	Blue 🗆	None □
THERMOMETER USED: #164-	un 03 🗆	#12208	37967 □	(COOLER TEMP	PERATURE (°C):	10.5	
BIOLOGICAL TISSUE IS FROZEN: Yes	No □	N/A-5X	<u> </u>			mp should be abov		s°C
		,		(COMMENTS:			
Chain of Custody Present:	*Xes	□No		1.				
Chain of Custody Filled Out:	NYes	□No		2.				
Chain of Custody Relinquished:	YgYes	□No		3.				
Sampler Name / Signature on COC:	□Yes	₩No		4.				
Samples Arrived within Hold Time:	⊠Yes	□No		5.				
Short Hold Time Analysis (<72hr):	□Yes	√ZNo		6.				
Rush Turn Around Time Requested:	□Yes	√ No		7.				
Sufficient Volume:	¥ZYes	□No		8.				
Correct Containers Used:	⊠ Yes	□No		9.				
- Pace Containers Used:	` S Yes	□No			·			
Containers Intact:	MYes	□No		10.				
Filtered volume received for Dissolved tests	S: □Yes	□No	∑ N/A	11.				
Sample Labels match COC:	□Yes	⊠No				" D-05" does		client labels
 Includes date/time/ID/Analysis 				"D-06".	. Collection -	times/dates mat	tch CoC.	
All containers needing preservation have been	∩ □Yes	□No	⊠ N/A	13. Soil 54	mples for 8	260 analysis n	ot preserve	d per collection
checked:				method 5	1035 guidan	nce.		1
All containers needing preservation are in	□Yes	□No	™ N/A					
compliance with EPA recommendation:			•	Initial when		Lot # o	f added preser	vative:
- Exceptions that are not checked: VOA				completed: _	AJB		NA	
Headspace in VOA Vials (>6mm):	□Yes	□No	XÍN/A	14.				
rip Blank Present:	□Yes	□No	ØN/A	15.				
Trip Blank Custody Seals Present:	□Yes	□No	⊠N/A					

Sample Receipt form filled in: Alb 10/18/19

Pace Trip Blank Lot #:

Line-Out (Includes Copying Shipping Documents and verifying sample pH): **Log In** (Includes notifying PM of any discrepacies and documenting in LIMS): **Labeling** (Includes Scanning Bottles and entering LAB IDs into pH logbook):

SAMPLE RECEIPT



2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Pace Analytical Services, Inc.

Fax: 518.381.6055



CLIENT: BARTON AND LOGUIDICE

PROJECT: ALCO LRF: 14100601

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: 7 DAYS **RECEIVED DATE:** 10/17/2014 10:10

SAMPLE RECEIPT REPORT

14100601

SHIPPED VIA: DROP OFF ^{1,2}SAMPLES PRESERVED PER METHOD GUIDANCE: NO ³ SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID: R.MCCORMICK/ B&L **DISPOSAL:** BY LAB (45 DAYS) NUMBER OF COOLERS: 1

CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED TEMPERATURE(S): 510.5 °C

COC DISCREPANCY: YES

COMMENTS:

SOIL SAMPLES FOR 8260 ANALYSIS NOT PRESERVED PER COLLECTION MEHTOD 5035 GUIDANCE.

SAMPLE ID ON COC "D-05" DOES NOT MATCH SAMPLE ID ON CLIENT LABELS "D-06"- COLLECTION DATES AND TIMES MATCH COC.

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-05 (AR40048)	7 DAYS 10-28-14	10/17/2014 10:00	Soil	EPA 6010C	Metals by ICP (Custom)	
	7 DAYS 10-28-14	10/17/2014 10:00	Soil	EPA 7471B	Mercury Analysis	
	7 DAYS 10-28-14	10/17/2014 10:00	Soil	EPA 8260C	VOCs by GCMS	

The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.

EPA 8260C - VOCs by GCMS - (ug/kg)

Reporting Parameters and Lists

EPA 6010C - Metals by ICP (Custom) - (mg/kg)	
--	--

Antimony Arsenic Barium Bervllium Cadmium Chromium Lead Nickel Selenium Silver

Thallium Vanadium Zinc

EPA 7471B - Mercury Analysis - (mg/kg)

Mercury

1.1.1.2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1.1.2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane

1.2-Dibromoethane 1.2-Dichlorobenzene 1,2-Dichloroethane

1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichloropropane

1,4-Dichlorobenzene 2,2-Dichloropropane

2-Butanone 2-Chlorotoluene 2-Hexanone

4-Chlorotoluene 4-Isopropyltoluene

4-Methyl-2-pentanone Acetone Benzene

Bromobenzene Bromochloromethane EPA 8260C - VOCs by GCMS - (ug/kg)

Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene

Chloroethane Chloroform Chloromethane cis-1,2-Dichloroethene cis-1,3-Dichloropropene Dibromochloromethane Dibromomethane Dichlorodifluoromethane

Ethylbenzene

Hexachlorobutadiene Isopropylbenzene m&p-Xylene Methylene Chloride

Methyl-tert-butyl-ether (MTBE)

Naphthalene n-Butylbenzene n-Propylbenzene o-Xylene sec-Butylbenzene Styrene

tert-Butvlbenzene Tetrachloroethene Toluene Total Xylenes

trans-1,2-Dichloroethene

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Page 1 of 2

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

3 Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it 4 is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.





SAMPLE RECEIPT REPORT 14100601

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Continued... EPA 8260C - VOCs by GCMS - (ug/kg)

trans-1,3-Dichloropropene Trichloroethene Trichlorofluoromethane Vinyl Acetate Vinyl Chloride

GC/MS Volatiles



Analytical Sample Results

Job Number: 14100601

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE Collection Date: 10/17/2014 10:00

Project: ALCO Sample Matrix: SOIL

Client Sample ID: D-06 Received Date: 10/17/2014 10:10

Lab Sample ID: 14100601-01 (AR40048) Percent Solid: 81.4 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol. F		Column
Analysis 1: MS10-284-10		10/22/2014 14:51		NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Prep 1: 2477	EPA 5035A-H	10/22/2014 13:39	RF	4.90 g	10.0 mL	NA
Analyte	CAS No.	Result (ug/kg)	PQL	Dilution Factor	r Flags	File ID
1,1,1,2-Tetrachloroethane	630-20-6	ND	125	50.0	U	MS10-284-10
1,1,1-Trichloroethane	71-55-6	ND	125	50.0	U	MS10-284-10
1,1,2,2-Tetrachloroethane	79-34-5	ND	125	50.0	U	MS10-284-10
1,1,2-Trichloroethane	79-00-5	ND	125	50.0	U	MS10-284-10
1,1-Dichloroethane	75-34-3	ND	125	50.0	U	MS10-284-10
1,1-Dichloroethene	75-35-4	ND	125	50.0	U	MS10-284-10
1,1-Dichloropropene	563-58-6	ND	125	50.0	U	MS10-284-10
1,2,3-Trichlorobenzene	87-61-6	ND	125	50.0	U	MS10-284-10
1,2,3-Trichloropropane	96-18-4	ND	125	50.0	U	MS10-284-10
1,2,4-Trichlorobenzene	120-82-1	ND	125	50.0	U	MS10-284-10
1,2,4-Trimethylbenzene	95-63-6	651	125	50.0		MS10-284-10
1,2-Dibromo-3-chloroprop	pane 96-12-8	ND	125	50.0	U	MS10-284-10
1,2-Dibromoethane	106-93-4	ND	125	50.0	U	MS10-284-10
1,2-Dichlorobenzene	95-50-1	ND	125	50.0	U	MS10-284-10
1,2-Dichloroethane	107-06-2	ND	125	50.0	U	MS10-284-10
1,2-Dichloropropane	78-87-5	ND	125	50.0	U	MS10-284-10
1,3,5-Trimethylbenzene	108-67-8	213	125	50.0		MS10-284-10
1,3-Dichlorobenzene	541-73-1	ND	125	50.0	U	MS10-284-10
1,3-Dichloropropane	142-28-9	ND	125	50.0	U	MS10-284-10
1,4-Dichlorobenzene	106-46-7	ND	125	50.0	U	MS10-284-10
2,2-Dichloropropane	594-20-7	ND	125	50.0	U	MS10-284-10
2-Butanone	78-93-3	ND	627	50.0	U	MS10-284-10
2-Chlorotoluene	95-49-8	ND	125	50.0	U	MS10-284-10
2-Hexanone	591-78-6	ND	627	50.0	U	MS10-284-10
4-Chlorotoluene	106-43-4	ND	125	50.0	U	MS10-284-10
4-Isopropyltoluene	99-87-6	285	125	50.0		MS10-284-10
4-Methyl-2-pentanone	108-10-1	ND	627	50.0	U	MS10-284-10
Acetone	67-64-1	ND	1250	50.0	U	MS10-284-10
Benzene	71-43-2	ND	125	50.0	U	MS10-284-10
Bromobenzene	108-86-1	ND	125	50.0	U	MS10-284-10
Bromochloromethane	74-97-5	ND	125	50.0	U	MS10-284-10
Bromodichloromethane	75-27-4	ND	125	50.0	U	MS10-284-10
Bromoform	75-25-2	ND	125	50.0	U	MS10-284-10
Bromomethane	74-83-9	ND	125	50.0	U	MS10-284-10
Carbon Disulfide	75-15-0	ND	125	50.0	U	MS10-284-10
Carbon Tetrachloride	56-23-5	ND	125	50.0	U	MS10-284-10
Chlorobenzene	108-90-7	ND	125	50.0	U	MS10-284-10
Chloroethane	75-00-3	ND	125	50.0	U	MS10-284-10
Chloroform	67-66-3	ND	125	50.0	U	MS10-284-10
Chloromethane	74-87-3	ND	125	50.0	U	MS10-284-10
cis-1,2-Dichloroethene	156-59-2	ND	125	50.0	U	MS10-284-10
cis-1,3-Dichloropropene	10061-01-5	ND	125	50.0	U	MS10-284-10
Dibromochloromethane	124-48-1	ND	125	50.0	U	MS10-284-10
Dibromomethane	74-95-3	ND	125	50.0	U	MS10-284-10

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Analytical Sample Results

Job Number: 14100601

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-06

Lab Sample ID: 14100601-01 (AR40048)

Collection Date: 10/17/2014 10:00

Sample Matrix: SOIL

Received Date: 10/17/2014 10:10

Percent Solid: 81.4 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: MS10-284-10	EPA Method 8260C	10/22/2014 14:51	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Prep 1: 2477	EPA 5035A-H	10/22/2014 13:39	RF	4.90 g	10.0 mL	NA
Analyte	CAS No.	Result (ug/kg)	PQL	Dilution Facto	U	File ID
Dichlorodifluoromethane	75-71-8	ND	125	50.0	U	MS10-284-10
Ethylbenzene	100-41-4	174	125	50.0		MS10-284-10
Hexachlorobutadiene	87-68-3	ND	125	50.0	U	MS10-284-10
Isopropylbenzene	98-82-8	796	125	50.0		MS10-284-10
m&p-Xylene	136777-61-2	228	125	50.0		MS10-284-10
Methylene Chloride	75-09-2	ND	125	50.0	U	MS10-284-10
Methyl-tert-butyl-ether (MT	BE) 1634-04-4	ND	125	50.0	U	MS10-284-10
Naphthalene	91-20-3	1040	125	50.0		MS10-284-10
n-Butylbenzene	104-51-8	1690	125	50.0		MS10-284-10
n-Propylbenzene	103-65-1	1400	125	50.0		MS10-284-10
o-Xylene	95-47-6	148	125	50.0		MS10-284-10
sec-Butylbenzene	135-98-8	1420	125	50.0		MS10-284-10
Styrene	100-42-5	ND	125	50.0	U	MS10-284-10
tert-Butylbenzene	98-06-6	ND	125	50.0	U	MS10-284-10
Tetrachloroethene	127-18-4	ND	125	50.0	U	MS10-284-10
Toluene	108-88-3	ND	125	50.0	U	MS10-284-10
Total Xylenes	1330-20-7	376	125	50.0		MS10-284-10
trans-1,2-Dichloroethene	156-60-5	ND	125	50.0	U	MS10-284-10
trans-1,3-Dichloropropene	10061-02-6	ND	125	50.0	U	MS10-284-10
Trichloroethene	79-01-6	ND	125	50.0	U	MS10-284-10
Trichlorofluoromethane	75-69-4	ND	125	50.0	U	MS10-284-10
Vinyl Acetate	108-05-4	ND	125	50.0	U	MS10-284-10
Vinyl Chloride	75-01-4	ND	125	50.0	U	MS10-284-10
Ž			T *	. • 4		
Summagata	CAS No.	0/ Dagayawa	Lin		\mathbf{Q}^1	File ID
Surrogate		% Recovery	(%	<u> </u>	Ų	
Bromofluorobenzene Dibromofluoromethane	460-00-4 1868-53-7	128 99.6	39.5 72.2			MS10-284-10 MS10-284-10
toluene-d8	2037-26-5	99.6 99.5	82.5			MS10-284-10 MS10-284-10
1,2-Dichloroethane-d4	17060-07-0	98.8	87.1			MS10-284-10 MS10-284-10
	value outside the control limits or 'D'			,		

Sample not collected in accordance with Method 5035/5035A. All results below 200 ppb should be considered potentially biased low. Please see Case Narrative.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Mercury





Analytical Sample Results

Job Number: 14100601

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-06

Lab Sample ID: 14100601-01 (AR40048)

Collection Date: 10/17/2014 10:00

Sample Matrix: SOIL

Received Date: 10/17/2014 10:10

Percent Solid: 81.4 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1728-16	SW-846 7471B	10/23/2014 14:55	CYC	NA	NA	NA
Prep 1:	5101	EPA 7471B	10/22/2014 11:24	CYC	0.190 g	40.0 mL	NA

Analyte	CAS No.	Result (mg/kg)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0517	1.00	U	MER1-1728-16

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Metals - ICP



Analytical Sample Results

Job Number: 14100601

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-06

Lab Sample ID: 14100601-01 (AR40048)

Collection Date: 10/17/2014 10:00

Sample Matrix: SOIL

Received Date: 10/17/2014 10:10

Percent Solid: 81.4 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1360-30	SW-846 6010C	10/27/2014 12:14	LMS	NA	NA	NA
Prep 1:	5102	EPA 3050B	10/22/2014 11:25	CYC	0.491 g	50.0 mL	NA
Analyte		CAS No.	Result (mg/kg)	PQL	Dilution Fact	or Flags	File ID
Antimony		7440-36-0	ND	0.626	1.00	U	ICP2-1360-30
Arsenic		7440-38-2	3.53	0.626	1.00		ICP2-1360-30
Barium		7440-39-3	76.7	0.626	1.00		ICP2-1360-30
Beryllium		7440-41-7	0.595	0.501	1.00		ICP2-1360-30
Cadmium		7440-43-9	ND	0.501	1.00	U	ICP2-1360-30
Chromium		7440-47-3	14.7	0.626	1.00		ICP2-1360-30
Lead		7439-92-1	11.3	0.626	1.00		ICP2-1360-30
Nickel		7440-02-0	20.6	0.626	1.00		ICP2-1360-30
Selenium		7782-49-2	ND	1.25	1.00	U	ICP2-1360-30
Silver		7440-22-4	ND	0.876	1.00	U	ICP2-1360-30
Thallium		7440-28-0	ND	1.25	1.00	U	ICP2-1360-30
Vanadium		7440-62-2	19.6	0.626	1.00		ICP2-1360-30
Zinc		7440-66-6	59.0	0.626	1.00		ICP2-1360-30

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

^(\$) NYSDOH does not currently offer certification for this analyte.

Quality Control Samples (Lab)



Quality Control Results Method Blank

Job Number: 14100601

Date

Pace Analytical Services, Inc. 2190 Technology Drive

Column

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Batch ID

Project: ALCO

Client Sample ID: Method Blank (AR38080B)

Method

Lab Sample ID: VBLK-91

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A Percent Solid: N/A

Analyst Init Wt./Vol. Final Vol.

	Method	Date	Anaiyst		nai voi.	Column
-	PA Method 8260C	10/22/2014 12:3		NA 4.80 -	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
	PA 5035A-H	10/22/2014 11:3			10.0 mL	NA
Analyte	CAS No.	Result (ug/kg)	PQL	Dilution Factor	Flags	File ID
1,1,1,2-Tetrachloroethane	630-20-6	ND	102	50.0	U	MS10-284-5
1,1,1-Trichloroethane	71-55-6	ND	102	50.0	U	MS10-284-5
1,1,2,2-Tetrachloroethane	79-34-5	ND	102	50.0	U	MS10-284-5
1,1,2-Trichloroethane	79-00-5	ND	102	50.0	U	MS10-284-5
1,1-Dichloroethane	75-34-3	ND	102	50.0	U	MS10-284-5
1,1-Dichloroethene	75-35-4	ND	102	50.0	U	MS10-284-5
1,1-Dichloropropene	563-58-6	ND	102	50.0	U	MS10-284-5
1,2,3-Trichlorobenzene	87-61-6	ND	102	50.0	U	MS10-284-5
1,2,3-Trichloropropane	96-18-4	ND	102	50.0	U	MS10-284-5
1,2,4-Trichlorobenzene	120-82-1	ND	102	50.0	U	MS10-284-5
1,2,4-Trimethylbenzene	95-63-6	ND	102	50.0	U	MS10-284-5
1,2-Dibromo-3-chloropropane	96-12-8	ND	102	50.0	U	MS10-284-5
1,2-Dibromoethane	106-93-4	ND	102	50.0	U	MS10-284-5
1,2-Dichlorobenzene	95-50-1	ND	102	50.0	U	MS10-284-5
1,2-Dichloroethane	107-06-2	ND	102	50.0	U	MS10-284-5
1,2-Dichloropropane	78-87-5	ND	102	50.0	U	MS10-284-5
1,3,5-Trimethylbenzene	108-67-8	ND	102	50.0	U	MS10-284-5
1,3-Dichlorobenzene	541-73-1	ND	102	50.0	U	MS10-284-5
1,3-Dichloropropane	142-28-9	ND	102	50.0	U	MS10-284-5
1,4-Dichlorobenzene	106-46-7	ND	102	50.0	U	MS10-284-5
2,2-Dichloropropane	594-20-7	ND	102	50.0	U	MS10-284-5
2-Butanone	78-93-3	ND	511	50.0	Ü	MS10-284-5
2-Chlorotoluene	95-49-8	ND	102	50.0	U	MS10-284-5
2-Hexanone	591-78-6	ND	511	50.0	Ü	MS10-284-5
4-Chlorotoluene	106-43-4	ND	102	50.0	U	MS10-284-5
4-Isopropyltoluene	99-87-6	ND	102	50.0	U	MS10-284-5
4-Methyl-2-pentanone	108-10-1	ND	511	50.0	U	MS10-284-5
Acetone	67-64-1	ND	1020	50.0	U	MS10-284-5
Benzene	71-43-2	ND	102	50.0	U	MS10-284-5
Bromobenzene	108-86-1	ND	102	50.0	U	MS10-284-5
Bromochloromethane	74-97-5	ND	102	50.0	U	MS10-284-5
Bromodichloromethane	75-27-4	ND	102	50.0	U	MS10-284-5
Bromoform	75-25-2	ND	102	50.0	U	MS10-284-5
Bromomethane	74-83-9	ND	102	50.0	U	MS10-284-5
Carbon Disulfide	75-15-0	ND	102	50.0	U	MS10-284-5
Carbon Tetrachloride	56-23-5	ND	102	50.0	Ü	MS10-284-5
Chlorobenzene	108-90-7	ND	102	50.0	U	MS10-284-5
Chloroethane	75-00-3	ND	102	50.0	Ü	MS10-284-5
Chloroform	67-66-3	ND	102	50.0	U	MS10-284-5
Chloromethane	74-87-3	ND	102	50.0	U	MS10-284-5
cis-1,2-Dichloroethene	156-59-2	ND	102	50.0	U	MS10-284-5
cis-1,3-Dichloropropene	10061-01-5	ND	102	50.0	U	MS10-284-5
Dibromochloromethane	124-48-1	ND	102	50.0	U	MS10-284-5
Dibromomethane	74-95-3	ND	102	50.0	U	MS10-284-5
Dioromoment	1175-5	TO	102	50.0	J	111010 201-3

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Quality Control Results Method Blank

Job Number: 14100601

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR38080B)

Lab Sample ID: VBLK-91

	Batch ID	Method	Date	Analyst		Final Vol.	Column
Analysis 1:	MS10-284-5	EPA Method 8260C	10/22/2014 12:30	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Prep 1:	2477	EPA 5035A-H	10/22/2014 11:31	TJH	4.89 g	10.0 mL	NA
Analyte		CAS No.	Result (ug/kg)	PQL	Dilution Facto	r Flags	File ID
Dichlorodif	luoromethane	75-71-8	ND	102	50.0	U	MS10-284-5
Ethylbenzer	ne	100-41-4	ND	102	50.0	U	MS10-284-5
Hexachlorol	butadiene	87-68-3	ND	102	50.0	U	MS10-284-5
Isopropylbe	nzene	98-82-8	ND	102	50.0	U	MS10-284-5
n&p-Xylen	e	136777-61-2	ND	102	50.0	U	MS10-284-5
Methylene (Chloride	75-09-2	ND	102	50.0	U	MS10-284-5
Methyl-tert-	butyl-ether (M	ГВЕ) 1634-04-4	ND	102	50.0	U	MS10-284-5
Naphthalene	e	91-20-3	ND	102	50.0	U	MS10-284-5
n-Butylbenz		104-51-8	ND	102	50.0	U	MS10-284-5
n-Propylben	zene	103-65-1	ND	102	50.0	U	MS10-284-5
-Xylene		95-47-6	ND	102	50.0	U	MS10-284-5
ec-Butylbe	nzene	135-98-8	ND	102	50.0	U	MS10-284-5
Styrene		100-42-5	ND	102	50.0	U	MS10-284-5
ert-Butylbe	nzene	98-06-6	ND	102	50.0	U	MS10-284-5
Tetrachloro	ethene	127-18-4	ND	102	50.0	U	MS10-284-5
Γoluene		108-88-3	ND	102	50.0	U	MS10-284-5
Γotal Xylen	es	1330-20-7	ND	102	50.0	U	MS10-284-5
rans-1,2-Di	chloroethene	156-60-5	ND	102	50.0	U	MS10-284-5
rans-1,3-Di	chloropropene	10061-02-6	ND	102	50.0	U	MS10-284-5
Trichloroeth	nene	79-01-6	ND	102	50.0	U	MS10-284-5
Trichloroflu	oromethane	75-69-4	ND	102	50.0	U	MS10-284-5
Vinyl Aceta	te	108-05-4	ND	102	50.0	U	MS10-284-5
Vinyl Chlor	ide	75-01-4	ND	102	50.0	U	MS10-284-5
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(o)	\mathbf{Q}^1	File ID
Bromofluor		460-00-4	92.9	39.5			MS10-284-5
	oromethane	1868-53-7	100		-133		MS10-284-5
oluene-d8	.1 14	2037-26-5	100		-117		MS10-284-5
1,2-Dichloro	oethane-d4	17060-07-0 s value outside the control limits or "	95.2		-117		MS10-284-5

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Job Number: 14100601

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308

Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR38080L)

Lab Sample ID: LCS-91

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A Percent Solid: N/A

ſ							
	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-284-3	EPA Method 8260C	10/22/2014 11:44	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Pren 1:	2477	EPA 5035A-H	10/22/2014 11:31	TJH	4.76 g	10.0 mL	NA

		Added	LCS	LCS	_ 1	Limits
Analyte Spiked	CAS No.	(ug/kg)	(ug/kg)	% Rec.	$\mathbf{Q}^{'}$	(%)
1,1,1,2-Tetrachloroethane	630-20-6	4210	4000	95.1		70.0-130
1,1,1-Trichloroethane	71-55-6	4210	3880	92.2		70.0-130
1,1,2,2-Tetrachloroethane	79-34-5	4210	3800	90.4		70.0-130
1,1,2-Trichloroethane	79-00-5	4210	3930	93.5		70.0-130
1,1-Dichloroethane	75-34-3	4210	3840	91.4		70.0-130
1,1-Dichloroethene	75-35-4	4210	3950	94.0		70.0-130
1,1-Dichloropropene	563-58-6	4210	4110	97.7		70.0-130
1,2,3-Trichlorobenzene	87-61-6	4210	2620	62.2	*	70.0-130
1,2,3-Trichloropropane	96-18-4	4210	4030	95.9		70.0-130
1,2,4-Trichlorobenzene	120-82-1	4210	3450	81.9		70.0-130
1,2,4-Trimethylbenzene	95-63-6	4210	4360	104		70.0-130
1,2-Dibromo-3-chloropropane	96-12-8	4210	4160	98.9		70.0-130
1,2-Dibromoethane	106-93-4	4210	4080	97.0		70.0-130
1,2-Dichlorobenzene	95-50-1	4210	4370	104		70.0-130
1,2-Dichloroethane	107-06-2	4210	3700	88.0		70.0-130
1,2-Dichloropropane	78-87-5	4210	3920	93.2		70.0-130
1,3,5-Trimethylbenzene	108-67-8	4210	4650	110		70.0-130
1,3-Dichlorobenzene	541-73-1	4210	4390	104		70.0-130
1,3-Dichloropropane	142-28-9	4210	4040	96.0		70.0-130
1,4-Dichlorobenzene	106-46-7	4210	4170	99.1		70.0-130
2,2-Dichloropropane	594-20-7	4210	4080	97.0		70.0-130
2-Butanone	78-93-3	4210	3590	85.5		70.0-130
2-Chlorotoluene	95-49-8	4210	4330	103		70.0-130
2-Hexanone	591-78-6	4210	4010	95.5		70.0-130
4-Chlorotoluene	106-43-4	4210	4410	105		70.0-130
4-Isopropyltoluene	99-87-6	4210	4590	109		70.0-130
4-Methyl-2-pentanone	108-10-1	4210	4250	101		70.0-130
Acetone	67-64-1	4210	2060	49.1	*	70.0-130
Benzene	71-43-2	4210	3620	86.1		70.0-130
Bromobenzene	108-86-1	4210	4000	95.2		70.0-130
Bromochloromethane	74-97-5	4210	3470	82.5		70.0-130
Bromodichloromethane	75-27-4	4210	4100	97.6		70.0-130
Bromoform	75-25-2	4210	4150	98.6		70.0-130
Bromomethane	74-83-9	4210	3950	94.0		70.0-130
Carbon Disulfide	75-15-0	4210	3810	90.7		70.0-130
Carbon Tetrachloride	56-23-5	4210	3700	87.9		70.0-130
Chlorobenzene	108-90-7	4210	3920	93.2	*	70.0-130
Chloroethane	75-00-3	4210	1930	45.9	•	70.0-130
Chloroform	67-66-3	4210	3740	89.0		70.0-130
Chloromethane	74-87-3	4210	3600	85.7		70.0-130
cis-1,2-Dichloroethene	156-59-2	4210	3790	90.1		70.0-130
cis-1,3-Dichloropropene	10061-01-5	4210	4230	101		70.0-130
Dibromochloromethane	124-48-1	4210	4110	97.6		70.0-130
Dibromomethane	74-95-3	4210	3800	90.3		70.0-130
Dichlorodifluoromethane	75-71-8	4210	3600	85.7		70.0-130
Ethylbenzene	100-41-4	4210	4170	99.2		70.0-130
Hexachlorobutadiene	87-68-3	4210	4680	111		70.0-130
Isopropylbenzene	98-82-8	4210	4050	96.4		70.0-130
m&p-Xylene	136777-61-2	8410	8800	105		70.0-130
Methylene Chloride	75-09-2	4210	3540	84.2		70.0-130
Methyl-tert-butyl-ether (MTBE)	1634-04-4	4210	3850	91.6		70.0-130
Naphthalene	91-20-3	4210	3200	76.1	1	70.0-130

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Job Number: 14100601

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR38080L)

Lab Sample ID: LCS-91

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-284-3	EPA Method 8260C	10/22/2014 11:44	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Prep 1:	2477	EPA 5035A-H	10/22/2014 11:31	TJH	4.76 g	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/kg)	LCS (ug/kg)	LCS % Rec.	\mathbf{Q}^1	Limits (%)	
n-Butylbenzene	104-51-8	4210	5030	120		70.0-130	
n-Propylbenzene	103-65-1	4210	4170	99.2		70.0-130	
o-Xylene	95-47-6	4210	4480	107		70.0-130	
sec-Butylbenzene	135-98-8	4210	4320	103		70.0-130	
Styrene	100-42-5	4210	4370	104		70.0-130	
tert-Butylbenzene	98-06-6	4210	4280	102		70.0-130	
Tetrachloroethene	127-18-4	4210	4220	100		70.0-130	
Toluene	108-88-3	4210	3610	85.8		70.0-130	
Total Xylenes	1330-20-7	12600	13300	105		70.0-130	
trans-1,2-Dichloroethene	156-60-5	4210	3820	90.8		70.0-130	
trans-1,3-Dichloropropene	10061-02-6	4210	4090	97.4		70.0-130	
Trichloroethene	79-01-6	4210	3680	87.4		70.0-130	
Trichlorofluoromethane	75-69-4	4210	3910	93.1		70.0-130	
Vinyl Acetate	108-05-4	4210	3860	91.7		70.0-130	
Vinyl Chloride	75-01-4	4210	3730	88.7		70.0-130	

¹ Qualifier column where **' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Bromofluorobenzene	460-00-4	101	39.5-171	MS10-284-3
Dibromofluoromethane	1868-53-7	96.7	72.2-133	MS10-284-3
toluene-d8	2037-26-5	104	82.5-117	MS10-284-3
1,2-Dichloroethane-d4	17060-07-0	102	87.1-117	MS10-284-3

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14100601

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR40181B)

Lab Sample ID: PBS-72

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1728-13	SW-846 7471B	10/23/2014 14:50	CYC	NA	NA	NA
Prep 1:	5101	EPA 7471B	10/22/2014 11:19	CYC	0.202 g	40.0 mL	NA

Analyte	CAS No.	Result (mg/kg)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0396	1.00	U	MER1-1728-13

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14100601

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR40181L)

Lab Sample ID: LCS-72

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1728-14	SW-846 7471B	10/23/2014 14:52	CYC	NA	NA	NA
Prep 1:	5101	EPA 7471B	10/22/2014 11:22	CYC	0.201 g	40.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/kg)	LCS (mg/kg)	LCS % Rec.	Q Lim
Mercury	7439-97-6	5.76	5.70	98.9	71.2-

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample - Duplicate (AR40181S)

Lab Sample ID: LCSD-72

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1728-15	SW-846 7471B	10/23/2014 14:53	CYC	NA	NA	NA
Prep 1:	5101	EPA 7471B	10/22/2014 11:23	CYC	0.197 g	40.0 mL	NA

								Prec	ision	
Analyte Spiked	CAS No.	Added (mg/kg)	LCSD (mg/kg)	LCSD % Rec.	\mathbf{Q}^{1}	Limits (%)	LCS % Rec.	RPD	\mathbf{Q}^{1}	Limits (%)
Mercury	7439-97-6	5.76	5.29	91.8		71.2-129	98.9	7.45		20

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results Method Blank

Job Number: 14100601

Date

Pace Analytical Services, Inc. 2190 Technology Drive

Column

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Batch ID

Project: ALCO

Client Sample ID: Method Blank (AR40181B)

Method

Lab Sample ID: PBS-73

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A Percent Solid: N/A

Analyst Init Wt./Vol. Final Vol.

Analysis 1:	ICP2-1360-27	SW-846 6010C	10/27/2014 12:07	LMS	NA	NA	NA			
Prep 1:	5102	EPA 3050B	10/22/2014 11:20	CYC	0.493 g	50.0 mL	NA			
Analyte		CAS No.	Result (mg/kg)	PQL	Dilution Factor	Flags	File ID			
Antimony		7440-36-0	ND	0.508	1.00	U	ICP2-1360-27			
Arsenic		7440-38-2	ND	0.508	1.00	U	ICP2-1360-27			
Barium		7440-39-3	ND	0.508	1.00	U	ICP2-1360-27			
Beryllium		7440-41-7	ND	0.406	1.00	U	ICP2-1360-27			
Cadmium		7440-43-9	ND	0.406	1.00	U	ICP2-1360-27			
Chromium		7440-47-3	ND	0.508	1.00	U	ICP2-1360-27			
Lead		7439-92-1	ND	0.508	1.00	U	ICP2-1360-27			
Nickel		7440-02-0	ND	0.508	1.00	U	ICP2-1360-27			
Selenium		7782-49-2	ND	1.02	1.00	U	ICP2-1360-27			
Silver		7440-22-4	ND	0.711	1.00	U	ICP2-1360-27			
Thallium		7440-28-0	ND	1.02	1.00	U	ICP2-1360-27			
Vanadium		7440-62-2	ND	0.508	1.00	U	ICP2-1360-27			
Zinc		7440-66-6	ND	0.508	1.00	U	ICP2-1360-27			

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

^(\$) NYSDOH does not currently offer certification for this analyte.



Quality Control Results Lab Control Sample (LCS)

Job Number: 14100601

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR40181L)

Lab Sample ID: LCS-73

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1360-28	SW-846 6010C	10/27/2014 12:10	LMS	NA	NA	NA
Prep 1:	5102	EPA 3050B	10/22/2014 11:21	CYC	0.507 g	50.0 mL	NA

		Added	LCS	LCS		Limits	
Analyte Spiked	CAS No.	(mg/kg)	(mg/kg)	% Rec.	$\mathbf{Q}^{^{1}}$	(%)	
Antimony	7440-36-0	108	59.9	55.5		0.00-215	
Arsenic	7440-38-2	151	146	96.6		80.8-120	
Barium	7440-39-3	262	248	94.7		82.8-117	
Beryllium	7440-41-7	133	132	99.5		82.0-118	
Cadmium	7440-43-9	152	148	97.1		81.6-118	
Chromium	7440-47-3	117	116	99.3		79.4-121	
Lead	7439-92-1	254	245	96.6		81.5-119	
Nickel	7440-02-0	315	302	95.8		82.2-118	
Selenium	7782-49-2	162	157	96.8		77.2-122	
Silver	7440-22-4	44.3	42.5	96.0		74.5-126	
Thallium	7440-28-0	259	245	94.6		78.8-122	l
Vanadium	7440-62-2	116	114	98.4		76.5-123	
Zinc	7440-66-6	306	299	97.9		80.1-120	

¹Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

^(\$) NYSDOH does not currently offer certification for this analyte.



Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample - Duplicate (AR40181S)

Lab Sample ID: LCSD-73

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1360-29	SW-846 6010C	10/27/2014 12:12	LMS	NA	NA	NA
Prep 1:	5102	EPA 3050B	10/22/2014 11:21	CYC	0.494 g	50.0 mL	NA

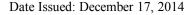
								Prec	ision	
Analyte Spiked	CAS No.	Added (mg/kg)	LCSD (mg/kg)	LCSD % Rec.	$\mathbf{Q}^{^{1}}$	Limits (%)	LCS % Rec.	RPD	\mathbf{Q}^1	Limits (%)
Antimony	7440-36-0	108	60.3	55.9		0.00-215	55.5	0.718		20
Arsenic	7440-38-2	151	146	97.0		80.8-120	96.6	0.413		20
Barium	7440-39-3	262	261	99.5		82.8-117	94.7	4.94		20
Beryllium	7440-41-7	133	132	99.5		82.0-118	99.5	0.00		20
Cadmium	7440-43-9	152	147	96.5		81.6-118	97.1	0.620		20
Chromium	7440-47-3	117	118	101		79.4-121	99.3	1.70		20
Lead	7439-92-1	254	248	97.8		81.5-119	96.6	1.23		20
Nickel	7440-02-0	315	300	95.3		82.2-118	95.8	0.523		20
Selenium	7782-49-2	162	158	97.3		77.2-122	96.8	0.515		20
Silver	7440-22-4	44.3	43.9	99.1		74.5-126	96.0	3.18		20
Thallium	7440-28-0	259	246	95.1		78.8-122	94.6	0.527		20
Vanadium	7440-62-2	116	115	99.2		76.5-123	98.4	0.810		20
Zinc	7440-66-6	306	298	97.3		80.1-120	97.9	0.615		20

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

^(\$) NYSDOH does not currently offer certification for this analyte.





Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): December 04, 2014

Lab Report ID: 14120155

Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included: VOCs by GCMS (TCLP) SVOCs by GCMS (TCLP) PCB Analysis Herbicides (TCLP) - Sub - Pace-LI TCLP Pesticides - Sub - Pace-LI Mercury Analysis (TCLP) Metals by ICP (TCLP- RCRA)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfelger

Dan Pfalzer Laboratory Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 14120155) consists of 1 soil sample received on 12/04/2014. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	Client ID	Collection Date
AR47021	D-07	12/04/2014 15:45

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 12/04/2014.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for the associated Laboratory Control spike was outside quality control limits. Sample was re-run with similar results. Please see associated form for details.

Metals Analysis by ICP

Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for Lead and Barium were outside method established limits for the associated CRDL for sample (LAB ID: AR47021). Sample is ND. No bias indicated.

Subcontract Analysis

(1.) Please see Pace NY-LI laboratory report for quality assurance details.

Respectfully submitted,

Kelly A. miller

Kelly A. Miller

Project Manager

QUALIFIERS

Definitions

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- MDL Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- PQL Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY



New York Office 2190 Technology Dr. Schenectady, NY 12308 (518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete <14120155P1>

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Alba	ny, NY 12205						Addres	s:		Elwood			Box 3	107				US	Т	Г	RC	RA					ΓHER				
Ema	il To: nshaffer@bartonandloguidice.com	Purchase Order No.:					Pace Quo	ote Referen		0001						\dashv				ITE			1		GA.		L J	N	Ги	I [10	0
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Due	Section D Valid Matrix Codes MATRIX C	ODE	ш	⊞ MP		COLL	ECTED		_ A_	RS		F	Prese	rvativ	es			quest	ed /			//	//	//	//	//	//	//		/ /	
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																													N.	Z >	Z >
			•			PRINT I	Name of S	SAMPLE	R:	TURE									DATE	Signed	!							Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact



Client 🚣

Pace □

UPS 🗆

COURIER: FedEx □

Sample Condition Upon Receipt

<14120155P2>
141201552

PROJECT: A CO

TRACKING # NA	/	CUSTO	OY SEAL PRE	SENT: Yes 🗆	No	INTACT: Yes 🗆	No □	N/A ≥<
PACKING MATERIAL: Bubble Wrap	Bubble Bags		None ∄	Other 🗆	, IC	E USED: Wet		None 🗆
THERMOMETER USED: #164 □ IR Gur	1 03 ★	#12208	7967 🗆		COOLER TEM	PERATURE (°C):	7.2(In)	
BIOLOGICAL TISSUE IS FROZEN: Yes □	No □	N/A,≊∟			Te	emp should be abov	e freezing to 6°Ć	
					COMMENTS:			
Chain of Custody Present:	√ZYes	□No		1.				
Chain of Custody Filled Out:	□Yes	7 ₽₩0		2. ~3	Sira Sav	role (
Chain of Custody Relinquished:	Yes	□No		3.	3			
Sampler Name / Signature on COC:	□Yes	¥Šuo		4.				
Samples Arrived within Hold Time:	'\\\\Yes	□No		5.				
Short Hold Time Analysis (<72hr):	□Yes	Σχίνο		6.				
Rush Turn Around Time Requested:	□Yes	, DM°		7.				
Sufficient Volume:	¥ΩÎγes	□No		8.	- 11-11-11-11-11-11-11-11-11-11-11-11-11			
Correct Containers Used:	⊠ Yes	□No		9.				
- Pace Containers Used:	X Yes	□No						
Containers Intact:	≱ Yes	□No		10.				
Filtered volume received for Dissolved tests:	□Yes	□No	∑ N/A	11.				
Sample Labels match COC:	¥Yes	□No		12.				
- Includes date/time/ID/Analysis								
All containers needing preservation have been checked:	□Yes	□No	N/A	13.				
All containers needing preservation are in	□Yes	□No	⊠ N/A		•		•	
compliance with EPA recommendation:				Initial whe		Lot # of	added preservati	ve:
- Exceptions that are not checked: VOA				completed	: N/A		J/A	
Headspace in VOA Vials (>6mm):	□Yes	□No	X ∫N/A	14.				
Trip Blank Present:	□Yes	□No	XIN/A	15.				
Trip Blank Custody Seals Present:	□Yes	□No	X N/A					
Pace Trip Blank Lot #: N/A			L . 2			WWW.		
Sample Receipt form filled in:	[17]	Line-Out	(Includes C	opying Shippi	ng Documents	and verifying sampl	- 7 -	B 12/8/19
		Log In (li	ncludes noti	fying PM of a	ny discrenacies	and documenting i	n IIMS)· A.\	B 12/5/14

Other

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

AJB



New York Office 2190 Technology Dr. Schenectady, NY 12308

(518) 346-4592



al Request Document

fields must be completed accurately.

Section A	Section B	Section C			Page: 1 of 1
Required Client Information:	Required Project Information: Report To: Andy Barber	Invoice Inform Attention:			A 0 5 1 1 0 1 /
Address: 10 Airline Drive, Suite 200	Copy To: Nathan Shaffer		ourno r ayanno	REGULATORY	AGENCY
	Copy to. Nathan Shaher		ton and Loguidice, DPC	NPDES GROUND WATER	DRINKING WATER
Albany, NY 12205			lwood Davis Road, Box 3107 use NY, 13220	UST RCRA	OTHER
Email To: nshaffer@bartonandloguidice.com	Purchase Order No.:	Pace Quote Reference:	00014909	SITE GA "	IL N VII TIC
Phone: 518-218-1801 Fax: 518-218-1805	Project Name: ALCO	Pace Project Manager:	Kelly Miller	LOCATION OH	SC NI TOTHER
Requested Standard Due Date/TAT:	Project Number: 1368.001.001	Pace Profile #:		Filtered (Y/N)	
Section D Valid Matrix Codes Required Client Information Valid Matrix Codes MATRIX C	COLL & COLL	ECTED 5	S Preservatives	Requested (
DRINKING WATER WATER	W W W	NO NO	Preservatives Preservatives	Analysis:	///////
SAMPLE ID WASTE WATER PRODUCT SOLUSOLD	P X U U U COMPOSITE	COMPOSITE H D	CONTA	[/3'//////////////	
(A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE OTHER	MA MAT	AMP	# OF Co	3	
Sample IDs MUST BE UNIQUE OTHER TISSUE	DATE TIME	DATE TIME	# OF Unpreser H ₂ SO ₄ HNO ₃ HCI NaOH Na ₂ S ₂ O ₃ Methanol	 	Pace Project No. Lab I.D.
1 D-08	Se x x	12/2 3:20	有人	ARYTO9	3 TOP-820
2 D-07-A	SLCX =	12/8 3.25	2 X	\$ AR470a	
3		12/0/120			Dort Metals
4		v .			COLINE
5					Hay per
6					Dockelli
7					New Reich
		·			19de es
8					REGULLE
9		•			Herb+pest.
10					
11					
12					
ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIA	يز سي سي	TIME ACCEPTED BY / /	AFFILIATION DATE TIM	E SAMPLE CONDITIONS
Standard Delicably	Melestal	- 12/8	410 COPC	Pa 12/8/14 /61	0 4.23 \$ 5
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					Z Z Z > >
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	SAMPL	ER NAME AND SIGNAT	TURE		
	PRINT	Name of SAMPLER:	Into Chil		Temp in °C (certored on Ice Custody ealed Coole Intact Coole Intact Inta
	SIGNA	URE of SAMPLER:	The state of the s	DATE Signed (MM / DD / YY): / 2/8/9	Temp in °C Received on Ice Custody Sealed Cooler Samples Intact
		- He		[(MM/100/11). [40/431.]	



Sample Condition Upon Receipt

CLIENT NAME:



141201554

B+L

i						PROJE	ст:	ALCO		
COURIER: FedEx O O CI	ent 😽	Pace 🗆	Other 🗆							
TRACKING # N/A	_	CUSTOD	Y SEAL PRESE	NT: Yes □	No ₫r		NTACT: Yes 🗆		•	A De
PACKING MATERIAL: Bubble Wrap	Bubble Bag	gs 🗆	None g	Other 🗆			ED: Wet a	Blue □	None	
THERMOMETER USED: #164 IR G	un 03 🕱	#122087	⁷ 967 □				NTURE (°C):	4,2°C		
BIOLOGICAL TISSUE IS FROZEN: Yes □	No □	N/A 🗃				•	should be abov	ve freezing to	o 6°C	
					COMMENT	rs:				
Chain of Custody Present:	Yes	□No		1.						•
Chain of Custody Filled Out:	Yes	□No		2. ~						
Chain of Custody Relinquished:	Yes	□No		3.			•			
Sampler Name / Signature on COC:	ØYes	□No		4.				· · · · · · · · · · · · · · · · · · ·		
Samples Arrived within Hold Time:	∦ Yes	□No		5.		-				
Short Hold Time Analysis (<72hr):	□Yes	M No		6.						
Rush Turn Around Time Requested:	□Yes	₹ No	٠	7.						
Sufficient Volume:	Yes	□No		8.						
Correct Containers Used:	Yes	□No		9.						
- Pace Containers Used:	□Yes	₩ No					· · · · · · · · · · · · · · · · · · ·			
Containers Intact:	Yes	□No		10.						
Filtered volume received for Dissolved tests	∶□Yes	□No		11.		- 4		, , 		
Sample Labels match COC:	□Yes	DINO		12. Extro	cvolume fo	@" Y	-07" is la	beled "D	-07-A"	on new
 Includes date/time/ID/Analysis 				CoC	`		*			
All containers needing preservation have been	□Yes	□No	70N/A	13.						
checked:										
All containers needing preservation are in	□Yes	□No	⊠ N/A	***			4.			
compliance with EPA recommendation:				Initial wher	. /// 1		Lot # o	of added pres	ervative:	
- Exceptions that are not checked: VOA		<u> </u>		completed	: 10/14			h/V	<u>. i</u>	
Headspace in VOA Vials (>6mm):	□Yes	□No	Z-31.1/1/	14.						
Frip Blank Present:	□Yes	□No	X N/A	15.					•	
Frip Blank Custody Seals Present:	□Yes	□No	¥⊠N/A	•						
Pace Trip Blank Lot #: N/A	Gli		() 1 1 0		<u> </u>	-4		.1	1512	12/6/14
Sample Receipt form filled in: $AJBID$	9/14		(Includes Cop		_				ASB	13/9/14
			cludes notifyi (Includes Scar	_	•		_		AJB	12/9/14
		Labeling	(melades seat	חוווה שנוווים	.5 and enter	LAD	ibs into pri io	6000K).		~~ ~ ~

SAMPLE RECEIPT





SAMPLE RECEIPT REPORT 14120155

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

COC DISCREPANCY: NO

CLIENT: BARTON AND LOGUIDICE

PROJECT: ALCO LRF: 14120155

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: 7 DAYS RECEIVED DATE: 12/04/2014 16:38

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,2}SAMPLES PRESERVED PER METHOD GUIDANCE: YES SHIPPING ID: R. MCCORMICK/ B & L ³ SAMPLES REC'D IN HOLDTIME: YES NUMBER OF COOLERS: 1 **DISPOSAL:** BY LAB (45 DAYS)

CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED **TEMPERATURE(S):** ⁵7.7 (IR) °C

COMMENTS:

ADDITIONAL VOLUME DROPPED OFF BY N. SHAFFER 12/8/14 @ 16:10 PROPERLY PRESERVED.

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-07 (AR47021)	7 DAYS 12-16-14	12/04/2014 15:45	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	SW-846 8081	TCLP Pesticides - Sub - Pace-LI	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	SW-846 8151A	Herbicides (TCLP) - Sub - Pace-LI	

The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.

Reporting Parameters and Lists

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)

Arsenic Barium Cadmium Chromium Lead Selenium Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)

Mercury

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260

Total PCB Amount > RL

EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)

1,1-Dichloroethene 1.2-Dichloroethane 2-Butanone Benzene

Carbon Tetrachloride Chlorobenzene Chloroform Tetrachloroethene Trichloroethene Vinyl Chloride

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)

1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane m&p-Methylphenol Nitrobenzene o-Methylphenol Pentachlorophenol Pyridine

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14120155 - Page 15 of 51

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

3 Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it 4 is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

GC/MS Volatiles



Analytical Sample Results

Job Number: 14120155

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-07

Lab Sample ID: 14120155-01 (AR47021)

Collection Date: 12/04/2014 15:45 Sample Matrix: SOIL(TCLP) **Received Date:** 12/04/2014 16:38

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol. F	inal Vol.	Column
Analysis 1:	MS10-318-21	EPA 8260C - TCLP-ZHE SW-846 1	311 12/11/2014 16:3	88 ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-318-21
1,2-Dichloro	ethane	107-06-2	ND	10.0	10.0	U	MS10-318-21
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-318-21
Benzene		71-43-2	ND	10.0	10.0	U	MS10-318-21
Carbon Tetra	chloride	56-23-5	ND	10.0	10.0	U	MS10-318-21
Chlorobenzer	ne	108-90-7	ND	10.0	10.0	U	MS10-318-21
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-318-21
Tetrachloroet	thene	127-18-4	ND	10.0	10.0	U	MS10-318-21
Trichloroethe	ene	79-01-6	ND	10.0	10.0	U	MS10-318-21
Vinyl Chlorid	de	75-01-4	ND	10.0	10.0	U	MS10-318-21
~		G 1 G 37	0.4 7	Lin		o 1	
Surrogate		CAS No.	% Recovery	(%	o)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
4-Bromofluo	robenzene	460-00-4	100	76.0	-128		MS10-318-21
Dibromofluo	romethane	1868-53-7	103	73.6	-		MS10-318-21
Toluene-d8		2037-26-5	98.4	84.4	-115		MS10-318-21
1,2-Dichloro	ethane-d4	17060-07-0	108	79.9	-120		MS10-318-21

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC/MS Semivolatiles



Analytical Sample Results

Job Number: 14120155

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-07

Lab Sample ID: 14120155-01 (AR47021)

Collection Date: 12/04/2014 15:45 Sample Matrix: SOIL(TCLP) **Received Date:** 12/04/2014 16:38

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-495-6	SW-846 8270D/TCLP Extraction M	ethod 131112/15/2014 12:21	RMS	NA	NA	N/A
Prep 1:	29746	EPA 3510C	12/12/2014 09:00	KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	tor Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-495-6
2,4,5-Trichlo	orophenol	95-95-4	ND	50.0	1.00	U	MS09-495-6
2,4,6-Trichlo	orophenol	88-06-2	ND	50.0	1.00	U	MS09-495-6
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS09-495-6
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-495-6
Hexachlorob	outadiene	87-68-3	ND	50.0	1.00	U	MS09-495-6
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-495-6
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-495-6
Nitrobenzen	e	98-95-3	ND	50.0	1.00	U	MS09-495-6
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-495-6
Pentachlorop	henol	87-86-5	ND	50.0	1.00	U	MS09-495-6
Pyridine		110-86-1	ND	50.0	1.00	U	MS09-495-6
		'		Lin	nits		
Surrogate		CAS No.	% Recovery	(%		$\mathbf{Q}^{^{1}}$	File ID
2,4,6-Tribro	mophenol	118-79-6	117	22.8	-161		MS09-495-6
2-Fluorobiph		321-60-8	83.3	26.3	-121		MS09-495-6
2-Fluorophe		367-12-4	47.4		-86.4		MS09-495-6
Terphenyl-d		1718-51-0	113	33.7	-154		MS09-495-6
Nitrobenzen	e-d5	4165-60-0	85.5	12.7	-139		MS09-495-6
Phenol-d6		13127-88-3	33.2	10.0-	-87.4		MS09-495-6

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC - PCB



Analytical Sample Results

Job Number: 14120155

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Lab Sample ID: 14120155-01 (AR47021)

Client Sample ID: D-07

Collection Date: 12/04/2014 15:45

Sample Matrix: SOIL

Received Date: 12/04/2014 16:38

Percent Solid: 79.0 - Results are based on dry weight unless otherwise noted.

Batch	ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-1	1296-7	SW-846 8082A (PCB)	12/17/2014 11:13	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μ m
Prep 1: 29769		EPA 3545A	12/16/2014 15:26	DSD	10.2 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1221		11104-28-2	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1232		11141-16-5	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1242		53469-21-9	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1248		12672-29-6	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1254		11097-69-1	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1260		11096-82-5	ND	0.0619	1.00	U	GC10F-1296-7
Total PCB Amount > I	RL	1336-36-3	ND		1.00	U	GC10F-1296-7
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xyle	ne	877-09-8	68.6	60.0	-140		GC10F-1296-7
Decachlorobiphenyl		2051-24-3	60.9	60.0	-140		GC10F-1296-7

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Mercury





Analytical Sample Results

Job Number: 14120155

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-07

Lab Sample ID: 14120155-01 (AR47021)

Collection Date: 12/04/2014 15:45 Sample Matrix: SOIL(TCLP) **Received Date:** 12/04/2014 16:38

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1799-16	SW-846 7470/TCLP 1311	12/15/2014 14:45	CYC	NA	NA	NA
Prep 1:	5281	EPA 7470A	12/12/2014 09:46	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1799-16

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Metals - ICP





Analytical Sample Results

Job Number: 14120155

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-07

Lab Sample ID: 14120155-01 (AR47021)

Collection Date: 12/04/2014 15:45 Sample Matrix: SOIL(TCLP) Received Date: 12/04/2014 16:38

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-146	EPA 6010C/TCLP 1311	12/12/2014 16:14	LMS	NA	NA	NA
Prep 1:	5280	EPA 3005A	12/12/2014 10:34	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fac	tor Flags	File ID

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1428-146
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1428-146
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1428-146
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1428-146
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1428-146
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1428-146
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1428-146

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)



Quality Control Results Matrix Spike Sample (MS)

Job Number: 14120155

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-07 MS

Lab Sample ID: 14120155-01M (AR47021M)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A **Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-495-7	SW-846 8270D/TCLP Extraction M	Iethod 131112/15/2014 12:41	RMS	NA	NA	N/A
Prep 1:	29746	EPA 3510C	12/12/2014 09:00	KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Facto	or Flags	File ID
1,4-Dichloro	benzene	106-46-7	276	50.0	1.00		MS09-495-7
2,4,5-Trichlo	rophenol	95-95-4	458	50.0	1.00		MS09-495-7
2,4,6-Trichlo	rophenol	88-06-2	419	50.0	1.00		MS09-495-7
2,4-Dinitroto	luene	121-14-2	436	50.0	1.00		MS09-495-7
Hexachlorob	enzene	118-74-1	401	50.0	1.00		MS09-495-7
Hexachlorob	utadiene	87-68-3	292	50.0 1.00			MS09-495-7
Hexachloroe	thane	67-72-1	269	50.0	1.00		MS09-495-7
m&p-Methyl	lphenol	108-39-4/106-44-5	630	50.0	1.00	E	MS09-495-7
Nitrobenzene	ė	98-95-3	356	50.0	1.00		MS09-495-7
o-Methylphe	nol	95-48-7	473	50.0	1.00		MS09-495-7
Pentachlorop	henol	87-86-5	446	50.0	1.00		MS09-495-7
Pyridine		110-86-1	165	50.0	1.00		MS09-495-7
		Sam	ple Added M	IS M	S Lir	nits	
Analyte Sp	iked	CAS No. (ug/	1			6)	

	Sam	ple Added	MS	MS	1	Limits	
Analyte Spiked	CAS No. (ug/	L) (ug/L)	(ug/L)	% Rec.	$\mathbf{Q}^{^{1}}$	(%)	
1,4-Dichlorobenzene	106-46-7	500	276	55.2		27.0-123	
2,4,5-Trichlorophenol	95-95-4	500	458	91.7		30.0-128	
2,4,6-Trichlorophenol	88-06-2	500	419	83.8		37.0-144	
2,4-Dinitrotoluene	121-14-2	500	436	87.1		37.0-121	
Hexachlorobenzene	118-74-1	500	401	80.3		42.0-117	
Hexachlorobutadiene	87-68-3	500	292	58.4		31.0-110	
Hexachloroethane	67-72-1	500	269	53.8		24.0-124	
m&p-Methylphenol	108-39-4/106-44-5	1000	630	63.0		22.0-139	
Nitrobenzene	98-95-3	500	356	71.2		34.0-119	
o-Methylphenol	95-48-7	500	473	94.5		26.0-128	
Pentachlorophenol	87-86-5	500	446	89.2		4.00-113	
Pyridine	110-86-1	500	165	32.9		1.00-105	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

	Limits								
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID					
2,4,6-Tribromophenol	118-79-6	113	22.8-161	MS09-495-7					
2-Fluorobiphenyl	321-60-8	86.5	26.3-121	MS09-495-7					
2-Fluorophenol	367-12-4	42.2	10.0-86.4	MS09-495-7					
Terphenyl-d14	1718-51-0	122	33.7-154	MS09-495-7					
Nitrobenzene-d5	4165-60-0	88.4	12.7-139	MS09-495-7					
Phenol-d6	13127-88-3	30.7	10.0-87.4	MS09-495-7					

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Matrix Spike Sample (MS)

Job Number: 14120155

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-07 MS

Lab Sample ID: 14120155-01M (AR47021M)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A **Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1799-19	SW-846 7470/TCLP 1311	12/15/2014 14:52	CYC	NA	NA	NA
Prep 1:	5281	EPA 7470A	12/12/2014 09:46	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	0.0356	0.0200	1.00		MER1-1799-19

		Sample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	(mg/L)	% Rec.	$\mathbf{Q}^{'}$	(%)	
Mercury	7439-97-6		0.0300	0.0356	119		75.0-125	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



20



Quality Control Results Duplicate Sample

Job Number: 14120155

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

ND

Client: BARTON AND LOGUIDICE

Project: ALCO

Mercury

Client Sample ID: D-07 DUP

Lab Sample ID: 14120155-01D (AR47021D)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1799-18	SW-846 7470/TCLP 1311	12/15/2014 14:50	CYC	NA	NA	NA
Prep 1:	5281	EPA 7470A	12/12/2014 09:46	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File I	D			
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1	3			
						Precision				
Analyte	CAS No.		plicate		Sample (mg/L		\mathbf{O}^1	Limits (%)		

ND

7439-97-6

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Matrix Špike Sample (MS)

Job Number: 14120155

Pace Analytical Services, Inc. 2190 Technology Drive

Column

ICP2-1428-148

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Batch ID

Project: ALCO

Silver

Client Sample ID: D-07 MS

Lab Sample ID: 14120155-01M (AR47021M)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Init Wt./Vol.

1.00

Final Vol.

Received Date: N/A Percent Solid: N/A

Analysis 1:	ICP2-1428-148 EPA 6010C/TCLP 1311	12/12/2014 16:1	9 LMS	NA	NA	NA
Prep 1:	5280 EPA 3005A	12/12/2014 10:3	4 CYC	10.0 mL	50.0 mL	NA
Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	13.5	0.500	1.00		ICP2-1428-148
Barium	7440-39-3	26.0	1.00	1.00		ICP2-1428-148
Cadmium	7440-43-9	5.37	0.100	1.00		ICP2-1428-148
Chromium	7440-47-3	12.2	0.500	1.00		ICP2-1428-148
Lead	7439-92-1	12.9	0.500	1.00		ICP2-1428-148
Selenium	7782-49-2	5.66	0.250	1.00		ICP2-1428-148

0.500

Date

12.8

Analyte Spiked	CAS No.	Sample (mg/L)	Added (mg/L)	MS (mg/L)	MS % Rec.	\mathbf{Q}^{1}	Limits (%)
Arsenic	7440-38-2		12.5	13.5	108		75.0-125
Barium	7440-39-3		25.0	26.0	104		75.0-125
Cadmium	7440-43-9		5.00	5.37	107		75.0-125
Chromium	7440-47-3		12.5	12.2	98.0		75.0-125
Lead	7439-92-1		12.5	12.9	103		75.0-125
Selenium	7782-49-2		5.00	5.66	113		75.0-125
Silver	7440-22-4		12.5	12.8	102		75.0-125

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

7440-22-4

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



20



Quality Control Results Duplicate Sample

Job Number: 14120155

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

ND

Client: BARTON AND LOGUIDICE

Project: ALCO

Silver

Client Sample ID: D-07 DUP

Lab Sample ID: 14120155-01D (AR47021D)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A **Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.		Columr	1
Analysis 1:	ICP2-1428-147	EPA 6010C/TCLP 1311	12/12/2014 16:17	LMS	NA	NA	NA		
Prep 1:	5280	EPA 3005A	12/12/2014 10:34	CYC	10.0 mL	50.0 mL) mL NA		
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or Flags	File	ID	
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1	428-147	7
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1	428-147	7
Cadmium		7440-43-9	ND 0.100 1.00 U ICP2-142				428-147	7	
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1428-147		7
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1428-147		7
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1428-147		7
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1	428-147	7
							Prec	ision	
			Dupl	licate		Sample		1	Limits
Analyte		CAS No.	(mg	g/L)		(mg/L)) RPD	$\mathbf{Q}^{'}$	(%)
Arsenic		7440-38-2	ND			ND			20
Barium		7440-39-3	ND			ND			20
Cadmium		7440-43-9	ND			ND			20
Chromium		7440-47-3	ND			ND			20
Lead		7439-92-1	ND			ND	ND		20
Selenium		7782-49-2	ND			ND			20

ND

7440-22-4

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Lab)





Quality Control Results Method Blank

Job Number: 14120155

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR47021B-ZHE)

Lab Sample ID: VBLK-98

	Batch ID	Method	Date	Analyst	Init Wt./Vol. Fi	nal Vol.	Column
Analysis 1:	MS10-318-6	EPA 8260C - TCLP-ZHE SW-846 1	311 12/11/2014 09:49	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-318-6
1,2-Dichloro	oethane	107-06-2	ND	10.0	10.0	U	MS10-318-6
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-318-6
Benzene		71-43-2	ND	10.0	10.0	U	MS10-318-6
Carbon Tetr	achloride	56-23-5	ND	10.0	10.0	U	MS10-318-6
Chlorobenze	ene	108-90-7	ND	10.0	10.0	U	MS10-318-6
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-318-6
Tetrachloroe	ethene	127-18-4	ND	10.0	10.0	U	MS10-318-6
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-318-6
Vinyl Chlor	ide	75-01-4	ND	10.0	10.0	U	MS10-318-6
				т:	- : 4~		
Surrogate		CAS No.	% Recovery	Lin (%		\mathbf{Q}^1	File ID
4-Bromofluo	orobenzene	460-00-4	104	76.0	-128		MS10-318-6
Dibromoflu	oromethane	1868-53-7	103	73.6	-132		MS10-318-6
Toluene-d8		2037-26-5	104		-115		MS10-318-6
1,2-Dichloro	ethane-d4	17060-07-0	98.1	79.9	-120		MS10-318-6

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 14120155

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR47063L)

Lab Sample ID: LCS-98

		Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
U	Analysis 1:	MS10-318-4	EPA 8260C - TCLP-ZHE SW-846 1311	12/11/2014 09:01	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

		Added	LCS	LCS	Limit	S
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	Q' (%)	
1,1-Dichloroethene	75-35-4	40.0	47.2	118	70.0-13	80
1,2-Dichloroethane	107-06-2	40.0	35.6	88.9	70.0-13	30
2-Butanone	78-93-3	40.0	42.7	107	70.0-13	30
Benzene	71-43-2	40.0	45.4	114	70.0-13	30
Carbon Tetrachloride	56-23-5	40.0	44.6	112	70.0-13	30
Chlorobenzene	108-90-7	40.0	41.1	103	70.0-13	30
Chloroform	67-66-3	40.0	40.0	99.9	70.0-13	30
Tetrachloroethene	127-18-4	40.0	42.7	107	70.0-13	30
Trichloroethene	79-01-6	40.0	41.4	103	70.0-13	30
Vinyl Chloride	75-01-4	40.0	36.3	90.6	70.0-13	80

¹Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits		
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID	
4-Bromofluorobenzene	460-00-4	99.3	76.0-128	MS10-318-4	_
Dibromofluoromethane	1868-53-7	105	73.6-132	MS10-318-4	
Toluene-d8	2037-26-5	101	84.4-115	MS10-318-4	
1.2-Dichloroethane-d4	17060-07-0	89.1	79.9-120	MS10-318-4	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14120155

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR47021B)

Lab Sample ID: SBLK-04

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-495-4	SW-846 8270D/TCLP Extraction M		RMS	NA	NA	N/A
Prep 1:	29746	EPA 3510C	12/12/2014 09:00	KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-495-4
2,4,5-Trichlo	orophenol	95-95-4	ND	50.0	1.00	U	MS09-495-4
2,4,6-Trichlo	orophenol	88-06-2	ND	50.0	1.00	U	MS09-495-4
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS09-495-4
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-495-4
Hexachlorob	outadiene	87-68-3	ND	50.0	1.00	U	MS09-495-4
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-495-4
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-495-4
Nitrobenzen	e	98-95-3	ND	50.0	1.00	U	MS09-495-4
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-495-4
Pentachloro	ohenol	87-86-5	ND	50.0	1.00	U	MS09-495-4
Pyridine		110-86-1	ND	50.0	1.00	U	MS09-495-4
		'		Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
2,4,6-Tribro	mophenol	118-79-6	122	22.8	-161		MS09-495-4
2-Fluorobipl		321-60-8	90.2	26.3			MS09-495-4
2-Fluorophe		367-12-4	46.3		-86.4		MS09-495-4
Terphenyl-d		1718-51-0	123	33.7	-154		MS09-495-4
Nitrobenzen	e-d5	4165-60-0	91.4	12.7			MS09-495-4
Phenol-d6		13127-88-3	33.3	10.0-	-87.4		MS09-495-4

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Job Number: 14120155

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR47021L)

Pace Analytical®

Lab Sample ID: LCS-04

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-495-5	SW-846 8270D/TCLP Extraction Method 1311	2/15/2014 12:01	RMS	NA	NA	N/A
Prep 1:	29746	EPA 3510C 1	2/12/2014 09:00	KEN	200 mL	1.00 mL	NA

A L. 4 . C T J	CACN	Added	LCS	LCS	\mathbf{o}^1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	Q	(%)	
1,4-Dichlorobenzene	106-46-7	500	283	56.6		27.0-123	
2,4,5-Trichlorophenol	95-95-4	500	471	94.2		30.0-128	
2,4,6-Trichlorophenol	88-06-2	500	428	85.5		37.0-144	
2,4-Dinitrotoluene	121-14-2	500	437	87.3		37.0-121	
Hexachlorobenzene	118-74-1	500	426	85.2		42.0-117	
Hexachlorobutadiene	87-68-3	500	276	55.2		31.0-110	
Hexachloroethane	67-72-1	500	260	52.1		24.0-124	
m&p-Methylphenol	108-39-4/106-44-5	1000	628	62.8		22.0-139	
Nitrobenzene	98-95-3	500	325	65.1		34.0-119	
o-Methylphenol	95-48-7	500	464	92.8		26.0-128	
Pentachlorophenol	87-86-5	500	461	92.1		4.00-113	
Pyridine	110-86-1	500	115	23.1		1.00-105	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q ¹ File ID
2,4,6-Tribromophenol	118-79-6	121	22.8-161	MS09-495-5
2-Fluorobiphenyl	321-60-8	83.0	26.3-121	MS09-495-5
2-Fluorophenol	367-12-4	42.4	10.0-86.4	MS09-495-5
Terphenyl-d14	1718-51-0	125	33.7-154	MS09-495-5
Nitrobenzene-d5	4165-60-0	82.0	12.7-139	MS09-495-5
Phenol-d6	13127-88-3	30.6	10.0-87.4	MS09-495-5

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14120155

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Collection Date: N/A
Project: ALCO
Sample Matrix: SOIL
Client Sample ID: Method Blank (AR47093B)
Received Date: N/A

Lab Sample ID: PBLK-82 Percent Solid: N/A

Batch II) Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-129	6-4 SW-846 8082A (PCB)	12/17/2014 10:36	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 29769	EPA 3545A	12/16/2014 15:25	DSD	10.1 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC10F-1296-4
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1296-4
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	88.8	60.0	-140		GC10F-1296-4
Decachlorobiphenyl	2051-24-3	90.9	60.0	-140		GC10F-1296-4

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 14120155

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR47093L)

Lab Sample ID: LCS-82

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1296-5	SW-846 8082A (PCB)	12/17/2014 10:48	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29769	EPA 3545A	12/16/2014 15:25	DSD	10.5 g	25.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	% Rec.	Q ' (%)	
Aroclor 1242	53469-21-9	1.19	1.10	92.8	70.0-130	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Tetrachloro-meta-xylene	877-09-8	91.5	60.0-140	GC10F-1296-5
Decachlorobiphenyl	2051-24-3	95.5	60.0-140	GC10F-1296-5

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14120155

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR47021B)

Lab Sample ID: PBW-54

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1799-13	SW-846 7470/TCLP 1311	12/15/2014 14:40	CYC	NA	NA	NA
Prep 1:	5281	EPA 7470A	12/12/2014 09:46	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1799-13

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 14120155

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR47021L)

Lab Sample ID: LCS-54

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1799-17	SW-846 7470/TCLP 1311	12/15/2014 14:47	CYC	NA	NA	NA
Prep 1:	5281	EPA 7470A	12/12/2014 09:46	CYC	4.00 mL	40.0 mL	NA

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	$\mathbf{Q}^{^{1}}$	(%)	
Mercury	7439-97-6	0.0300	0.0365	122	*	80.0-120	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14120155

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR47021B)

Lab Sample ID: PBW-53

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-143	EPA 6010C/TCLP 1311	12/12/2014 16:07	LMS	NA	NA	NA
Prep 1:	5280	EPA 3005A	12/12/2014 10:34	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1428-143
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1428-143
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1428-143
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1428-143
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1428-143
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1428-143
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1428-143

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 14120155

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR47021L)

Lab Sample ID: LCS-53

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-144	EPA 6010C/TCLP 1311	12/12/2014 16:09	LMS	NA	NA	NA
Prep 1:	5280	EPA 3005A	12/12/2014 10:34	CYC	10.0 mL	50.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	$\mathbf{Q}^{^{1}}$	Limits (%)
Arsenic	7440-38-2	12.5	13.1	104		85.0-115
Barium	7440-39-3	25.0	25.1	100		85.0-115
Cadmium	7440-43-9	5.00	5.30	106		85.0-115
Chromium	7440-47-3	12.5	12.0	96.3		85.0-115
Lead	7439-92-1	12.5	12.7	102		85.0-115
Selenium	7782-49-2	5.00	5.44	109		85.0-115
Silver	7440-22-4	12.5	12.4	99.0		85.0-115

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Subcontract Analysis



TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

AR47021

William A. Kotas Collected : 12/4/2014 3:45:00 PM :12/9/2014 11:00:00 AM Received

Collected By CLIENT

Attn To:

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Sample Information:

Type: Soil

Origin:

Collected by CLILINI						
Analytical Method:	SW1311/8151A: <u>Prep</u>	Method: SV	V1311/8151	Prep Date:	12/12/2014 11:16:34 AM	Analyst: MJM
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>		Analyzed:	Container:
2,4,5-TP (Silvex)	< 0.0025	1	mg/L		12/16/2014 12:34 PM	Container-01 of 02
2,4-D	< 0.0050	1	mg/L		12/16/2014 12:34 PM	Container-01 of 02
Surr: DCAA	54.6	1	%REC	Limit 36-121	12/16/2014 12:34 PM	Container-01 of 02

Lab No. : 1412665-001

Client Sample ID: D-07

Analytical Method:	SW1311/8081B:	Prep Method:	SW3510C	Prep Date	e: 12/15/2014 2:15:17 PM	Analyst: JS
Parameter(s)	<u>Results</u>	Qualifier D.F.	<u>Units</u>		Analyzed:	Container:
Chlordane	< 0.004	0 1	mg/L		12/15/2014 8:52 PM	Container-01 of 02
Endrin	< 0.000	1	mg/L		12/15/2014 8:52 PM	Container-01 of 02
gamma-BHC	< 0.000	20 1	mg/L		12/15/2014 8:52 PM	Container-01 of 02
Heptachlor	< 0.000	20 1	mg/L		12/15/2014 8:52 PM	Container-01 of 02
Heptachlor epoxide	< 0.000	20 1	mg/L		12/15/2014 8:52 PM	Container-01 of 02
Methoxychlor	< 0.002	20 1	mg/L		12/15/2014 8:52 PM	Container-01 of 02
Toxaphene	< 0.020	1	mg/L		12/15/2014 8:52 PM	Container-01 of 02
Surr: Decachlorobiph	enyl 100	1	%REC	Limit 30-150	12/15/2014 8:52 PM	Container-01 of 02
Surr: Tetrachloro-m-	kylene 85.8	1	%REC	Limit 30-150	12/15/2014 8:52 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

r = Reporting limit > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 12/16/2014

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Page 1 of 7



Pace Analytical

PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

HERBICIDES, TCLP Leached Analysis:

WorkOrder:

1412665

1311_H

Lab Batch ID:

47406

Method Blank

RunID: 66432 SeqNo 1443605

Units: mg/L

Method:

Analysis Date: 12/4/2014 6:54:34 PM

Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
Surr: DCAA	0.057	0	

Laboratory Control Sample (LCS/LFB)

RunID: 66432 SeqNo 1443606 Units: mg/L Analysis Date: 12/4/2014 7:10:17 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result		_	Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: DCAA	0.1000	0.053	52.9						36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1411H45-003C Sample Spiked:

RunID: 66432 SeqNo 1443609 Units: mg/L Analysis Date: 12/4/2014 7:57:30 PM Analyst: MJM

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	 MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: DCAA		0.1000	0.066	65.5	36	121							

- Value exceeds Maximum Contaminant Level
- D Dilution was required.
- Η Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PLPermit Limit

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- RSD is greater than RSDlimit 0
- RLReporting Detection Limit



Pace Analytical

PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

HERBICIDES, TCLP Leached Analysis:

WorkOrder:

1412665

Method: 1311_H Lab Batch ID:

47569

Method Blank

RunID: 66884 SeqNo 1454253

Units: mg/L

Analysis Date: 12/16/2014 11:47:33 AM

Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr: DCAA	0.049	0	

Laboratory Control Sample (LCS/LFB)

66884 SeqNo 1454254 RunID: Units: mg/L Analysis Date: 12/16/2014 12:03:19 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result		_	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0.02000	0.017	83.8						47	152	
2,4,5-TP (Silvex)	0.01000	0.0092	92.4						44	157	
Surr: DCAA	0.1000	0.051	50.7						36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1412840-001A

RunID: 66884 SeqNo 1454259 Units: mg/L Analysis Date: 12/16/2014 1:22:21 PM Analyst: MJM

Analyte	Sample Result			MS % Recovery	Low Limit	High Limit	MSD Spike Added		MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0	0.02000	0.019	97.1	39	111		-						
2,4,5-TP (Silvex)	0	0.01000	0.010	104	48	113	1							
Surr: DCAA		0.1000	0.092	91.9	36	121	1							

- Value exceeds Maximum Contaminant Level
- D Dilution was required.
- Η Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PLPermit Limit

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit
- RLReporting Detection Limit



Pace Analytical

PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

PESTICIDES, TCLP Leached Analysis:

WorkOrder:

1412665

Method: 1311 P Lab Batch ID:

47605

Method Blank

RunID: 66888

Heptachlor epoxide

gamma-BHC

Methoxychlor

Heptachlor

Endrin

SeqNo 1454394

< 0.00020

< 0.00020

< 0.00020

< 0.00040

< 0.0020

Units: mg/L

Analyst: JS

Analysis Date: 12/15/2014 7:49:29 PM Analyte Result

Rep Limit Rep Qual 0.00020 0.00020 0.00020 0.00040 0.0020

Toxaphene < 0.020 0.020 Chlordane < 0.0040 0.0040 Surr: Tetrachloro-m-xylene 0.00036 0 0.00043 Surr: Decachlorobiphenyl 0

Laboratory Control Sample (LCS/LFB)

RunID: 66888 SeqNo 1454395 Units: mg/L Analysis Date: 12/15/2014 8:10:32 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	_	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	.0008000	0.00067	83.9					27	146	
Heptachlor	.0008000	0.00068	85.1					10	148	
Heptachlor epoxide	.0008000	0.00072	90.1					28	144	
Endrin	.0008000	0.00074	92.5					22	152	
Methoxychlor	.0008000	< 0.0020	104					19	146	
Surr: Tetrachloro-m-xylene	.0004000	0.00037	93.1					30	150	
Surr: Decachlorobiphenyl	.0004000	0.00045	114					30	150	

Laboratory Control Sample (LCS/LFB)

RunID: 66888 SeqNo 1454396 Units: mg/L Analysis Date: 12/15/2014 8:31:41 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result		_	Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Toxaphene	0.04000	0.039	97.9		-				46	168	Е
Surr: Tetrachloro-m-xylene	.0004000	0.00031	78.7						30	150	
Surr: Decachlorobiphenyl	.0004000	0.00037	93.6	1					30	150	

- Value exceeds Maximum Contaminant Level
- D Dilution was required.
- Η Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- Not Detected at the Reporting Limit ND
- PLPermit Limit

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- 0 RSD is greater than RSDlimit
- RLReporting Detection Limit



Pace Analytical*

PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached

WorkOrder: 1412665

1311_P

Lab Batch ID: 47605

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1412840-001a

Method:

RunID: 66888 SeqNo 1454401 Units: mg/L Analysis Date: 12/15/2014 10:16:58 PM Analysi: JS

Analyte	Sample Result			MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	0	0008000	0.00052	65.0	58	124							
Heptachlor	0	0008000	0.00053	66.4	61	110							
Heptachlor epoxide	0	0008000	0.00057	71.6	52	131							
Endrin	0	0008000	0.00063	79.1	57	147							
Methoxychlor	0	0008000	0.0020	92.9	51	124							
Surr: Tetrachloro-m-xylene		004000	0.00033	81.8	30	150							
Surr: Decachlorobiphenyl		004000	0.00038	94.6	30	150							

Laboratory Control Sample (LCS/LFB)

RunID: 66432 SeqNo 1443607 Units: mg/L
Analysis Date: 12/4/2014 7:25:59 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	_	Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: DCAA	0.1000	0.11	106						36	121	

- Value exceeds Maximum Contaminant Level
- D Dilution was required.
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PL Permit Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit
- RL Reporting Detection Limit





PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

Sample Receipt Checklist

TEL: (631) 694-3040 FAX: (631) 420-8436 Website: <u>www.pacelabs.com</u>

Client Name PACE-NY		Date and T	Time Received:	12/9/2014 11:00:00 AM
Work Order Number: 1412665 RcptNo:	1	Received b	oy: Jamie Spero)
Completed by: Sum for	Re	viewed by:	femfn .	Car
Completed Date: <u>12/9/2014 12:33:19 PM</u>	Re	viewed Date:	12/14/2014	10:14:07 PM
Carrier name: FedEx				
Chain of custody present? Chain of custody signed when relinquished and received? Chain of custody agrees with sample labels? Are matrices correctly identified on Chain of custody? Is it clear what analyses were requested? Custody seals intact on sample bottles?	Yes ✓	No	Not Present	✓
Samples in proper container/bottle? Were correct preservatives used and noted? Preservative added to bottles:	Yes ✓ Yes ✓	No No	NA	
Sample Condition? Sufficient sample volume for indicated test? Were container labels complete (ID, Pres, Date)? All samples received within holding time?	Intact Yes Yes Yes Yes Y	Broken No No No No	Leaking	
Was an attempt made to cool the samples? All samples received at a temp. of > 0° C to 6.0° C? Response when temperature is outside of range:	Yes ✓ Yes ✓	No 🗌 No 🗆	NA NA	
Sample Temp. taken and recorded upon receipt? Water - Were bubbles absent in VOC vials? Water - Was there Chlorine Present? Water - pH acceptable upon receipt? Are Samples considered acceptable?	Yes ✓ Yes ☐ Yes ☐ Yes ✓ Yes ✓	No No No No	To 5 No Vials NA No Water	.3°
Custody Seals present? Airbill or Sticker? Airbill No:	Yes ☐ Air Bill ☑ 623146887	No ✓ Sticker □	Not Present	
Case Number: SDG:		SAS:		
Any No response should be detailed in the comments second and the comments sec	etion below, if applicab Person Contacte Email:	=====	====	=======
Comments: CorrectiveAction:				





 $\frac{\text{WorkOrder:}}{1412665}$

Certifications

STATE	CERTIFICATION#
NEW YORK	10478
NEWJERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS ETTS	MNY026
NEW HAMPS HIRE	2987
RHODE IS LAND	LAO00340
PENNS YLVANIA	68-00350

Page 7 of 7

PACE-LI

CHAIN OF CUSTODY RECORD	USTODY R	ECORD		PAGE 10F 1		SOUSIO	AL REQUIREMENTS: (To	DISPOSAL REQUIREMENTS: (To be filled in by Client) RETURN TO CLIENT	d in by Client)
Pace Analytical Services, Inc. 2190 Technology Drive, Schenectady, NY 12308	cal Servi e, Schenectae	ces, II dy, NY 12	308	LRF # 14120155			DISPOSAL E ARCHIVAL E	DISPOSAL BY RECEIVING LAB ARCHIVAL BY RECEIVING LAB	m m
Telephone (518) 346- www.pacelabs.com	4592 Fax (518) 381-		(LAB US	(LAB USE ONLY)	Additional char Call for details.	harges incurred for dispoils.	Additional charges incurred for disposal (if hazardous) or archival. Call for details.	chival.
CLIENT (REPORTS TO BE SENT TO):		PROJECT#/PROJECT NAW	JECT NAME:			NTER ANAL	YSIS AND METHO	ENTER ANALYSIS AND METHOD NUMBER REQUESTED	l . I
PACE		14120155			PRESERVATIVE CODE:	نن			PRESERVATIVE KEY
		LOCATION (CIT	Y/STATE] ADD	RESS:	BOTTLE TYPE:		-		0 - ICE
PROJECT MANAGER:					BOTTLE SIZE:	7	-	\ \-\	1 - HCL
Kelly.Miller@pacelabs.com		ž				5,916	_	\ \ \	/ 2 - HNO3 3 - H2SO4
SAMPLED BY: (Please Print)		REQUIRED TURN AROUNI	N AROUND TIME:	12/16/2014	INIATN	Py/sopy	\ \ \		4 - NaOH 5 - Zn. Acetate
SAMPLING FIRM:						0/10-	_	<u></u>	9 - МеОН
		NAME OF COURIER (IF USED):	NER (IF USED):			<u></u>		\ \ \	/ 7 - NaHSO4 8 - Other (Na2SO3)
ELECTRONIC RESULTS ni	nicole.johnson@pacelabs.com	acelabs.cor	되	LAB	_	\	<u>'</u>		
				SAMPLE ID	/ IUN	_	\ \ \		
SAMPLE ID	DATE TIME	MATRIX	COMP	(LAB USE ONLY)					REMARKS:
D-07	12/4/14 15:45	S	COMP	AR47021 (مرام)	×			7	1412665
				١٨١					
		-							
AMBIENT OR CHILLED: 1	TEMP: 5,3	COC TAPE:	€		PROPERLY PRESERVED:	Z ≻	ОТНЕ	ER NOTES: Analytical Rep	OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-D
RECEIVED BROKEN OR LEAKING: Y	(Q)	COC DISCREPANCIES:		(a)	RECVD W/I HOLDING TIMES:	λ :S:	z		
RELINQUISHED BY	RECEIVED BY	37		RELINQUISHED BY	RECEIVED BY		RELINQUISHED BY		RECEIVED BY
SIGNATURE / M OR	SIGNATURE V/A FEDEX	ED&X	SIGNATURE	Sed ex	SIGNATURE	σ.	SIGNATURE	SIGNATURE	RE
PRINTED NAME	PRINTED NAME		PRINTED MAME		PRINTED NAME C	12 Crap	PRINTED NAME	PRINTED NAME	NAMË
COMPANY R	COMPANY		COMPANY		COMPANY PACE		COMPANY	COMPANY	٨
DATE/TIME 12/8/14 1500	DATE/TIME		DATE/TIME		DATE/TIME N 9/14	36])	DATE/TIME	DATECTIME	
. 344									S:/LOGIN/MDLCOCS





Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): December 08, 2014

Lab Report ID: 14120180

Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS (TCLP)
SVOCs by GCMS (TCLP)
PCB Analysis
Herbicides (TCLP) - Sub - Pace-LI
TCLP Pesticides - Sub - Pace-LI
Mercury Analysis (TCLP)
Metals by ICP (TCLP- RCRA)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Jan Pfelger

Dan Pfalzer Laboratory Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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Section 8: Mercury	20
Section 9: Metals - ICP	22
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CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 14120180) consists of 1 soil sample received on 12/08/2014. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	Client ID	Collection Date
AR47093	D-08	12/08/2014 15:20

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 12/08/2014.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for 2,4,6-Tribromophenol was below method established limits for the associated Continuing Calibration Verification Sample for sample (LAB ID: AR47093). Low analytical bias may be indicated for this sample.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for Mercury exceeded method established limits for the associated Continuing Calibration Verification Sample for sample (LAB ID: AR47093). Sample is ND. No bias indicated.

Metals Analysis by ICP

Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for Lead exceeded method established limits for the associated CRDL for sample (LAB ID: AR47093). Sample is ND. No bias indicated.

Subcontract Analysis

(1.) Please see Pace NY-LI laboratory report for quality assurance details.

Respectfully submitted,

Kelly A. miller

Kelly A. Miller

Project Manager

QUALIFIERS

Definitions

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- MDL Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- PQL Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY



New York Offic 2190 Technolo Schenectady, I (518) 346-45



alytical Request Document All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C	•	Page: 1 of 1
Company: Barton and Loguidice DPC	Report To: Andy Barber	Attention: Accounts Payable	REGULATORY AGE	ENCY
Address: 10 Airline Drive, Suite 200	Copy To: Nathan Shaffer			NKING WATER
Albany, NY 12205		Address 200 Ebugad Davia Board Bay 2407		
Email To: nshaffer@bartonandloquidice.com	Purchase	Syracuse NY, 13220 Pace Quote Reference: 00014909	UST RCRA THE	
Phone: 518-218-1801 Fax: 518-218-1805	Order No.:	33311333	SITE GA IL	N M TO
		TON THE STATE OF T	LOCATION OH SC	NI TOTHER
Due Date/TAT:	Project Number: 1368.001.001	Pace Profile #: Filter	red (Y/N) ///////////////////////////////////	
SAMPLE ID SAMPLE ID (A-Z, 0-9 /, -) WE WARE WATER WATER WATER PRODUCT OF WIPE AR AR	ODE DW WWATRIX SAMPLE TYPE SAMPLE TYPE SOCIOUS	COMPOSITE END/GRAB APICE TEMP A CONTAINE R. CONTAINE R	ysis:	Pace Project No.
TISSUE	DATE TIME	DATE TIME S T F P E E E	K /	Lab I.D.
1 2-08	4 C X X	128 3:20 5 4 1 1 4	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TCIP-820
2 D-07-A	SLCX =	12/83.25 2 X	S AR47021	8270, heat
3		" /	<u> </u>	Dest Metals
4				reg pcB
5				/ /
6				* Her Kelli
7				Miller
8				Repliet
9				Herb+Dest
10				
11				
12				
ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIA	TION DATE TIME ACCEPTED BY / AFFIL	LIATION DATE TIME	SAMPLE CONDITIONS
standard Delicably	Melestal	- 12/8 410 CCPC	Pa 12/8/14 /6/0	4,28 \$ 5
Stricted believery	0.000			(1R) \$ \$ \$
				Z Z Z
				Z Z Z
	SAMPL	R NAME AND SIGNATURE		o o o o o o o o o o o o o o o o o o o
		ame of SAMPLER: Nathan Shuffen	DATE Signed AD A A A A	Received on local Custody Sealed Cooler Samples
		ALMAN	(MM/DD/YY): [2] 8] 28/9	K &



B+L

CLIENT NAME:

ample	Con	ditio	n Up	on	Rece

						PROJECT:	ALCO		
COURIER: FedEx D UPS D C	Client 😙 —	Pace CUSTO	Other ODY SEAL PRE	SENT: Yes 🗆	No ox			N/A 🛣	
PACKING MATERIAL: Bubble Wrap	Bubble Ba	•	None g	Other 🗆		ICE USED: Wet a	Blue ロ 4.2°に	None 🗆	
THERMOMETER USED: #164 IR (Gun 03 %		87967 □		COOLER TE	MPERATURE (°C):		C0.0	
BIOLOGICAL TISSUE IS FROZEN: Yes	No □	N/A à		,		Temp should be ab	ove freezing to	6°C	
					COMMENT	is:			,
Chain of Custody Present:	™ Yes	□No_		1. ~		· · · · · · · · · · · · · · · · · · ·			
Chain of Custody Filled Out:	™ Yes	□No		2.					
Chain of Custody Relinquished:	Yes	□No		3.			· · · · · · · · · · · · · · · · · · ·		
Sampler Name / Signature on COC:	Ø Yes	□No		4.					
Samples Arrived within Hold Time:	7 Yes	□No		5.	<u></u>	:	*		
Short Hold Time Analysis (<72hr):	□Yes	IX No		6.					
Rush Turn Around Time Requested:	□Yes	MNo	· · · · · · · · · · · · · · · · · · ·	7.					
Sufficient Volume:	Yes	□No		8.					
Correct Containers Used:	Yes	□No		9.					
- Pace Containers Used:	∶□Yes	TS No							
Containers Intact:	Yes	□No		10.					
Filtered volume received for Dissolved tes	ts: □ _{Yes}	□No	ZN/A_	11.					
Sample Labels match COC:	□Yes	□No		12.	*	, *			
 Includes date/time/ID/Analysis 									
All containers needing preservation have been checked:	en □Yes	□No	M N/A	13.					
2002		Π.,	TÉIN/A			A.			
All containers needing preservation are in compliance with EPA recommendation:	□Yes	□No	IS IN/A	Initial whe	n 74	Lot #	of added prese	rvative:	
- Exceptions that are not checked: VOA				completed	1: <u>N/A</u>	·	NA		
Headspace in VOA Vials (>6mm):	□Yes	□No	ØN/A	14.			,	•	
Trip Blank Present:	□Yes	□No	7€ N/A	15 .				÷	
Trip Blank Custody Seals Present: Pace Trip Blank Lot #:	□Yes	□No	N/A					. ~ /	
Sample Receipt form filled in: 🔬 🖒 🔞	19/14		•		_	nts and verifying sar		AJB 12/9/	14
		•	•	, -	•	cies and documenting Fing LAB IDs into pH	-	AJB 12/9/1	<u> </u>

Pace Analytical

SAMPLE RECEIPT





SAMPLE RECEIPT REPORT 14120180

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

COC DISCREPANCY: NO

CLIENT: BARTON AND LOGUIDICE

PROJECT: ALCO LRF: 14120180

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: 7 DAYS RECEIVED DATE: 12/08/2014 16:10

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF 1,3AMPLES PRESERVED PER METHOD GUIDANCE: YES ³ SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID: N. SHAFFER/ B&L NUMBER OF COOLERS: 1 **DISPOSAL:** BY LAB (45 DAYS)

CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED TEMPERATURE(S): ⁵4.2 (IR) °C

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-08 (AR47093)	7 DAYS 12-18-14	12/08/2014 15:20	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	SW-846 8081	TCLP Pesticides - Sub - Pace-LI	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	SW-846 8151A	Herbicides (TCLP) - Sub - Pace-LI	

The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.

Reporting Parameters and Lists

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)

Arsenic Barium Cadmium Chromium Lead Selenium Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)

Mercury

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260

Total PCB Amount > RL

EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)

1,1-Dichloroethene 1.2-Dichloroethane 2-Butanone Benzene

Carbon Tetrachloride Chlorobenzene Chloroform Tetrachloroethene Trichloroethene Vinyl Chloride

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)

1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane m&p-Methylphenol Nitrobenzene o-Methylphenol Pentachlorophenol Pyridine

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²The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

³Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it 4 is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

GC/MS Volatiles



Analytical Sample Results

Job Number: 14120180

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-08

Lab Sample ID: 14120180-01 (AR47093)

Collection Date: 12/08/2014 15:20 Sample Matrix: SOIL(TCLP) **Received Date:** 12/08/2014 16:10

Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: MS10-318-19	EPA 8260C - TCLP-ZHE SW-846	1311 12/11/2014 15:46	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Analyte	CAS No./IUPAC	Result (ug/L)	PQL	Dilution Facto	r Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-318-19
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-318-19
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-318-19
Benzene	71-43-2	ND	10.0	10.0	U	MS10-318-19
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-318-19
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-318-19
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-318-19
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-318-19
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-318-19
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-318-19
			Lin		- 1	
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
4-Bromofluorobenzene	460-00-4	101	76.0	-128		MS10-318-19
Dibromofluoromethane	1868-53-7	105	73.6	-132		MS10-318-19
Toluene-d8	2037-26-5	98.2	84.4	-115		MS10-318-19
1,2-Dichloroethane-d4	17060-07-0	112	79.9	-120		MS10-318-19

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC/MS Semivolatiles



Analytical Sample Results

Job Number: 14120180

Pace Analytical Services, Inc.

MS09-490-45

MS09-490-45

MS09-490-45

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Terphenyl-d14

Phenol-d6

Nitrobenzene-d5

Client Sample ID: D-08

Lab Sample ID: 14120180-01 (AR47093)

Collection Date: 12/08/2014 15:20 Sample Matrix: SOIL(TCLP) **Received Date:** 12/08/2014 16:10

Percent Solid: N/A

33.7-154

12.7-139

10.0-87.4

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column	
Analysis 1:	MS09-490-45	SW-846 8270D/TCLP Extraction M	Tethod 131112/12/2014 02:19	RMS	NA	NA	N/A	
Prep 1:	29725	EPA 3510C	12/10/2014 10:10	KEN	200 mL	1.00 mL	NA	
Analyte		CAS No./IUPAC	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID	
1,4-Dichlorob	enzene	106-46-7	ND	50.0	1.00	U	MS09-490-45	
2,4,5-Trichlor	ophenol	95-95-4	ND	50.0	1.00	U	MS09-490-45	
2,4,6-Trichlor	rophenol	88-06-2	ND	50.0	1.00	U	MS09-490-45	
2,4-Dinitrotol	uene	121-14-2	ND	50.0	1.00	U	MS09-490-45	
Hexachlorobe	enzene	118-74-1	ND	50.0	1.00	U	MS09-490-45	
Hexachlorobu	ıtadiene	87-68-3	ND	50.0	1.00	U	MS09-490-45	
Hexachloroet	hane	67-72-1	ND	50.0	1.00	U	MS09-490-45	
m&p-Methylp	ohenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-490-45	
Nitrobenzene		98-95-3	ND	50.0	1.00	U	MS09-490-45	
o-Methylphen	nol	95-48-7	ND	50.0	1.00	U	MS09-490-45	
Pentachloroph		87-86-5	ND	50.0	1.00	U	MS09-490-45	
Pyridine		110-86-1	ND	50.0	1.00	U	MS09-490-45	
				Lin	nits			
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID	
2,4,6-Tribrom	ophenol	118-79-6	80.0	22.8	-161		MS09-490-45	
2-Fluorobiphe	enyl	321-60-8	76.4	26.3			MS09-490-45	
2-Fluorophen	ol	367-12-4	41.8	10.0	-86.4		MS09-490-45	

94.4

83.6

1718-51-0

4165-60-0

13127-88-3

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC - PCB



Analytical Sample Results

Job Number: 14120180

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-08

Lab Sample ID: 14120180-01 (AR47093)

Collection Date: 12/08/2014 15:20

Sample Matrix: SOIL

Received Date: 12/08/2014 16:10

Percent Solid: 85.9 - Results are based on dry weight unless otherwise noted.

Batch I	D M	lethod	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-12	96-6 SW	7-846 8082A (PCB)	12/17/2014 11:01	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 29769	EP.	A 3545A	12/16/2014 07:58	DSD	10.2 g	25.0 mL	NA
Analyte		CAS No./IUPAC	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1221		11104-28-2	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1232		11141-16-5	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1242		53469-21-9	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1248		12672-29-6	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1254		11097-69-1	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1260		11096-82-5	ND	0.0572	1.00	U	GC10F-1296-6
Total PCB Amount > R	L	1336-36-3	ND		1.00	U	GC10F-1296-6
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylen	ie	877-09-8	82.4	60.0	-140		GC10F-1296-6
Decachlorobiphenyl		2051-24-3	80.6	60.0	-140		GC10F-1296-6

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Mercury





Analytical Sample Results

Job Number: 14120180

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-08

Lab Sample ID: 14120180-01 (AR47093)

Collection Date: 12/08/2014 15:20 Sample Matrix: SOIL(TCLP) **Received Date:** 12/08/2014 16:10

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1795-24	SW-846 7470/TCLP 1311	12/11/2014 15:19	CYC	NA	NA	NA
Prep 1:	5270	EPA 7470A	12/10/2014 11:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No./IUPAC	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1795-24

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Metals - ICP





Analytical Sample Results

Job Number: 14120180

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-08

Lab Sample ID: 14120180-01 (AR47093)

Collection Date: 12/08/2014 15:20 Sample Matrix: SOIL(TCLP) **Received Date:** 12/08/2014 16:10

Percent Solid: N/A

Analysis 1: ICP2-1428-28 EPA 6010C/TCLP 1311 12/12/2014 11:12 LMS NA NA			Method Date	Batch	
Thiatysis 1. 1012-1720-20 ETT 00100/10ET 1511 12/12/2014 11.12 ENIS IVA IVA	NA	2	EPA 6010C/TCLP 1311 12/12/2014 11:12	is 1: ICP2-142	Analysis 1:
Prep 1: 5269 EPA 3005A 12/10/2014 11:19 CYC 10.0 mL 50.0 mL	NA	9	EPA 3005A 12/10/2014 11:19	5269	Prep 1:

Analyte	CAS No./IUPAC	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1428-28
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1428-28
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1428-28
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1428-28
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1428-28
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1428-28
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1428-28
					U	

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)

Pace Analytical Services, Inc.

December 18, 2014

14120180 - Page 24 of 45





Quality Control Results Matrix Spike Sample (MS)

Job Number: 14120180

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-08 MS

Lab Sample ID: 14120180-01M (AR47093M)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A **Percent Solid:** N/A

A		7440 29 2	12.0	0.500	1.00		ICD2 1420 20
Analyte		CAS No./IUPAC	Result (mg/L)	PQL	Dilution Fact	tor Flags	File ID
Prep 1:	5269	EPA 3005A	12/10/2014 11:19	CYC	10.0 mL	50.0 mL	NA
Analysis 1:	ICP2-1428-30	EPA 6010C/TCLP 1311	12/12/2014 11:17	LMS	NA	NA	NA
<u> </u>	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column

Analyte	CAS No./IUPAC	Result (mg/L)	PQL	Dilution Factor	Flags	File ID	
Arsenic	7440-38-2	13.0	0.500	1.00		ICP2-1428-30	
Barium	7440-39-3	24.6	1.00	1.00		ICP2-1428-30	
Cadmium	7440-43-9	5.22	0.100	1.00		ICP2-1428-30	
Chromium	7440-47-3	12.0	0.500	1.00		ICP2-1428-30	
Lead	7439-92-1	12.6	0.500	1.00		ICP2-1428-30	
Selenium	7782-49-2	5.45	0.250	1.00		ICP2-1428-30	
Silver	7440-22-4	12.3	0.500	1.00		ICP2-1428-30	

Analyte Spiked	CAS No.	Sample (mg/L)	Added (mg/L)	MS (mg/L)	MS % Rec.	$\mathbf{Q}^{^{1}}$	Limits (%)
Arsenic	7440-38-2		12.5	13.0	104		75.0-125
Barium	7440-39-3		25.0	24.6	98.6		75.0-125
Cadmium	7440-43-9		5.00	5.22	104		75.0-125
Chromium	7440-47-3		12.5	12.0	95.6		75.0-125
Lead	7439-92-1		12.5	12.6	101		75.0-125
Selenium	7782-49-2		5.00	5.45	109		75.0-125
Silver	7440-22-4		12.5	12.3	98.6		75.0-125

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



20



Quality Control Results Duplicate Sample

Job Number: 14120180

Date

Pace Analytical Services, Inc. 2190 Technology Drive

Column

ND

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Batch ID

Project: ALCO

Silver

Client Sample ID: D-08 DUP

Lab Sample ID: 14120180-01D (AR47093D)

Method

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Analyst Init Wt./Vol. Final Vol.

Received Date: N/A **Percent Solid:** N/A

Analysis 1:	ICP2-1428-29	EPA 6010C/TCLP 1311	12/12/2014 11:15	LMS	NA	NA		NA	
Prep 1:	5269	EPA 3005A	12/10/2014 11:19	CYC	10.0 mL	50.0 mL		NA	
Analyte		CAS No./IUPAC	C Result (mg/L)	PQL	Dilution Factor	Flags	File	ID	
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1	428-29	
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1	428-29	
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1	428-29	
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1	428-29	
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1	428-29	
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1	428-29	
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1	428-29	
							Prec	ision	
			Dupl	licate		Sample			Limits
Analyte		CAS No.	(mg			(mg/L)	RPD	$\mathbf{Q}^{^{1}}$	(%)
Arsenic		7440-38-2	ND			ND			20
Barium		7440-39-3	ND			ND			20
Cadmium		7440-43-9	ND			ND			20
Chromium		7440-47-3	ND			ND			20
Lead		7439-92-1	ND			ND			20
Selenium		7782-49-2	ND			ND			20

ND

7440-22-4

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Lab)





Quality Control Results Method Blank

Job Number: 14120180

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR47021B-ZHE)

Lab Sample ID: VBLK-98

	Batch ID	Method	Date	Analyst	Init Wt./Vol. F	inal Vol.	Column
Analysis 1:	MS10-318-6	EPA 8260C - TCLP-ZHE SW-846	311 12/11/2014 09:49	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Analyte		CAS No./IUPAC	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-318-6
1,2-Dichloro	ethane	107-06-2	ND	10.0	10.0	U	MS10-318-6
2-Butanone		78-93-3	ND	50.0	10.0	U	MS10-318-6
Benzene		71-43-2	ND	10.0	10.0	U	MS10-318-6
Carbon Tetra	chloride	56-23-5	ND	10.0	10.0	U	MS10-318-6
Chlorobenze	ne	108-90-7	ND	10.0	10.0	U	MS10-318-6
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-318-6
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS10-318-6
Trichloroethe	ene	79-01-6	ND	10.0	10.0	U	MS10-318-6
Vinyl Chlori	de	75-01-4	ND	10.0	10.0	U	MS10-318-6
~		Q 1 Q 33	0/ 5	Lin		- 1	
Surrogate		CAS No.	% Recovery	(%	o)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
4-Bromofluo	robenzene	460-00-4	104	76.0	-128		MS10-318-6
Dibromofluo	romethane	1868-53-7	103	73.6	-132		MS10-318-6
Toluene-d8		2037-26-5	104	84.4	-115		MS10-318-6
1,2-Dichloro	ethane-d4	17060-07-0	98.1	79.9	-120		MS10-318-6

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 14120180

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR47063L)

Lab Sample ID: LCS-98

		Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
U	Analysis 1:	MS10-318-4	EPA 8260C - TCLP-ZHE SW-846 1311	12/11/2014 09:01	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	Q ¹ (%)	
1,1-Dichloroethene	75-35-4	40.0	47.2	118	70.0-130	
1,2-Dichloroethane	107-06-2	40.0	35.6	88.9	70.0-130	
2-Butanone	78-93-3	40.0	42.7	107	70.0-130	
Benzene	71-43-2	40.0	45.4	114	70.0-130	
Carbon Tetrachloride	56-23-5	40.0	44.6	112	70.0-130	
Chlorobenzene	108-90-7	40.0	41.1	103	70.0-130	
Chloroform	67-66-3	40.0	40.0	99.9	70.0-130	
Tetrachloroethene	127-18-4	40.0	42.7	107	70.0-130	
Trichloroethene	79-01-6	40.0	41.4	103	70.0-130	
Vinyl Chloride	75-01-4	40.0	36.3	90.6	70.0-130	

¹Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
4-Bromofluorobenzene	460-00-4	99.3	76.0-128	MS10-318-4
Dibromofluoromethane	1868-53-7	105	73.6-132	MS10-318-4
Toluene-d8	2037-26-5	101	84.4-115	MS10-318-4
1,2-Dichloroethane-d4	17060-07-0	89.1	79.9-120	MS10-318-4

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14120180

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR47065B)

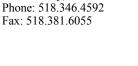
Lab Sample ID: SBLK-01

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-490-41	SW-846 8270D/TCLP Extraction M	ethod 131112/12/2014 01:00	RMS	NA	NA	N/A
Prep 1:	29725	EPA 3510C	12/10/2014 10:10	KEN	200 mL	1.00 mL	NA
Analyte		CAS No./IUPAC	Result (ug/L)	PQL	Dilution Fact	tor Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-490-41
2,4,5-Trichlo	orophenol	95-95-4	ND	50.0	1.00	U	MS09-490-41
2,4,6-Trichlo	orophenol	88-06-2	ND	50.0	1.00	U	MS09-490-41
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS09-490-41
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-490-41
Hexachlorob	outadiene	87-68-3	ND	50.0	1.00	U	MS09-490-41
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-490-41
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-490-41
Nitrobenzen	_	98-95-3	ND	50.0	1.00	U	MS09-490-41
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-490-41
Pentachlorop		87-86-5	ND	50.0	1.00	U	MS09-490-41
Pyridine		110-86-1	ND	50.0	1.00	U	MS09-490-41
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		${\bf Q}^1$	File ID
2,4,6-Tribroi	mophenol	118-79-6	85.3	22.8	-161		MS09-490-41
2-Fluorobiph		321-60-8	78.2	26.3	-121		MS09-490-41
2-Fluoropher		367-12-4	47.5	10.0-	10.0-86.4		MS09-490-41
Terphenyl-d	14	1718-51-0	97.2	33.7	-154		MS09-490-41
Nitrobenzen	e-d5	4165-60-0	82.4	12.7			MS09-490-41
Phenol-d6		13127-88-3	32.9	10.0-	87.4		MS09-490-41

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Pace Analytical Services, Inc.

2190 Technology Drive

Schenectady, NY 12308



Quality Control Results Lab Control Sample (LCS)

Job Number: 14120180

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR47065L)

Lab Sample ID: LCS-01

Collection Date: N/A Sample Matrix: TCLP Received Date: N/A Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-490-42	SW-846 8270D/TCLP Extraction Method 131112/	12/2014 01:20	RMS	NA	NA	N/A
Prep 1:	29725	EPA 3510C 12/	10/2014 10:10	KEN	200 mL	1.00 mL	NA

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	$\mathbf{Q}^{'}$	(%)	
1,4-Dichlorobenzene	106-46-7	500	254	50.9		27.0-123	
2,4,5-Trichlorophenol	95-95-4	500	394	78.9		30.0-128	
2,4,6-Trichlorophenol	88-06-2	500	382	76.4		37.0-144	
2,4-Dinitrotoluene	121-14-2	500	341	68.1		37.0-121	
Hexachlorobenzene	118-74-1	500	329	65.8		42.0-117	
Hexachlorobutadiene	87-68-3	500	240	48.0		31.0-110	
Hexachloroethane	67-72-1	500	171	34.1		24.0-124	
m&p-Methylphenol	108-39-4/106-44-5	1000	573	57.3		22.0-139	
Nitrobenzene	98-95-3	500	322	64.3		34.0-119	
o-Methylphenol	95-48-7	500	425	85.1		26.0-128	
Pentachlorophenol	87-86-5	500	359	71.8		4.00-113	
Pyridine	110-86-1	500	132	26.3		1.00-105	

¹ Qualifier column where 1st denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q ¹ File ID
2,4,6-Tribromophenol	118-79-6	81.2	22.8-161	MS09-490-42
2-Fluorobiphenyl	321-60-8	78.1	26.3-121	MS09-490-42
2-Fluorophenol	367-12-4	40.1	10.0-86.4	MS09-490-42
Terphenyl-d14	1718-51-0	101	33.7-154	MS09-490-42
Nitrobenzene-d5	4165-60-0	75.1	12.7-139	MS09-490-42
Phenol-d6	13127-88-3	29.0	10.0-87.4	MS09-490-42

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

11

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14120180

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR47093B)

Lab Sample ID: PBLK-82

F	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: G	GC10F-1296-4	SW-846 8082A (PCB)	12/17/2014 10:36	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 29	9769	EPA 3545A	12/16/2014 15:25	DSD	10.1 g	25.0 mL	NA
Analyte		CAS No./IUPAC	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1221		11104-28-2	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1232		11141-16-5	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1242		53469-21-9	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1248		12672-29-6	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1254		11097-69-1	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1260		11096-82-5	ND	0.0500	1.00	U	GC10F-1296-4
Total PCB Amou	unt > RL	1336-36-3	ND		1.00	U	GC10F-1296-4
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	5)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta	a-xylene	877-09-8	88.8	60.0	-140		GC10F-1296-4
Decachlorobiphe	enyl	2051-24-3	90.9	60.0	-140		GC10F-1296-4

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 14120180

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR47093L)

Lab Sample ID: LCS-82

	(
		Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
	Analysis 1:	GC10F-1296-5	SW-846 8082A (PCB)	12/17/2014 10:48	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μ m
ı	Pren 1:	29769	EPA 3545A	12/16/2014 15:25	DSD	10.5 g	25.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	% Rec.	Q ' (%)	
Aroclor 1242	53469-21-9	1.19	1.10	92.8	70.0-130	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Tetrachloro-meta-xylene	877-09-8	91.5	60.0-140	GC10F-1296-5
Decachlorobiphenyl	2051-24-3	95.5	60.0-140	GC10F-1296-5

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14120180

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR46988B)

Lab Sample ID: PBW-47

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1795-20	SW-846 7470/TCLP 1311	12/11/2014 15:11	CYC	NA	NA	NA
Prep 1:	5270	EPA 7470A	12/10/2014 11:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No./IUPAC Result (mg/L)		PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1795-20

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 14120180

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR46988L)

Lab Sample ID: LCS-47

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1795-21	SW-846 7470/TCLP 1311	12/11/2014 15:13	CYC	NA	NA	NA
Prep 1:	5270	EPA 7470A	12/10/2014 11:26	CYC	4.00 mL	40.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q Lin
Mercury	7439-97-6	0.0300	0.0309	103	80.0

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 14120180

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AR47093B)

Lab Sample ID: PBW-46

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-24	EPA 6010C/TCLP 1311	12/12/2014 11:02	LMS	NA	NA	NA
Prep 1:	5269	EPA 3005A	12/10/2014 11:19	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No./IUPAC	Result (mg/L)	PQL	Dilution Fact	or Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1428-24
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1428-24
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1428-24
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1428-24
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1428-24
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1428-24
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1428-24

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 14120180

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AR47093L)

Lab Sample ID: LCS-46

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-25	EPA 6010C/TCLP 1311	12/12/2014 11:05	LMS	NA	NA	NA
Prep 1:	5269	EPA 3005A	12/10/2014 11:19	CYC	10.0 mL	50.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	\mathbf{Q}^1	Limits (%)
Arsenic	7440-38-2	12.5	13.5	108		85.0-115
Barium	7440-39-3	25.0	25.8	103		85.0-115
Cadmium	7440-43-9	5.00	5.47	109		85.0-115
Chromium	7440-47-3	12.5	12.5	99.8		85.0-115
Lead	7439-92-1	12.5	13.1	104		85.0-115
Selenium	7782-49-2	5.00	5.61	112		85.0-115
Silver	7440-22-4	12.5	12.9	103		85.0-115

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Subcontract Analysis



TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Surr: Tetrachloro-m-xylene

William A. Kotas : 12/8/2014 3:20:00 PM

:12/10/2014 11:15:00 AM AR47093 Received

Collected By CLIENT

Attn To:

Collected

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Sample Information:

Type: Soil

Origin:

12/15/2014 9:34 PM Container-01 of 02

Collected By CLIENT							
Analytical Method:	SW1311/8151A:	Prep Method	: SW1311/8151		Prep Date	<u>:</u> 12/12/2014 11:16:34 AM	Analyst: MJM
Parameter(s)	Results C	<u> D.F</u>	<u>Units</u>			Analyzed:	Container:
2,4,5-TP (Silvex)	< 0.0025	1	mg/L			12/16/2014 1:06 PM	Container-01 of 02
2,4-D	< 0.0050	1	mg/L			12/16/2014 1:06 PM	Container-01 of 02
Surr: DCAA	65.0	1	%REC	Limit	36-121	12/16/2014 1:06 PM	Container-01 of 02
Analytical Method:	SW1311/8081B:	Prep Method	: SW3510C		Prep Date	: 12/15/2014 2:15:17 PM	Analyst: JS
Parameter(s)	Results C	<u> D.F</u>	<u>Units</u>			Analyzed:	Container:
Chlordane	< 0.0040	1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Endrin	< 0.00040	1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
gamma-BHC	< 0.00020	1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Heptachlor	< 0.00020	1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Heptachlor epoxide	< 0.00020	1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Methoxychlor	< 0.0020	1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Toxaphene	< 0.020	1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Surr: Decachlorobip	henyl 92.8	1	%REC	Limit	30-150	12/15/2014 9:34 PM	Container-01 of 02

%REC

1

Limit 30-150

Lab No. : 1412840-001

Client Sample ID: D-08

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

96.3

r = Reporting limit > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 12/17/2014

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Page 1 of 6



Pace Analytical

PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

HERBICIDES, TCLP Leached Analysis:

1311_H

Method:

WorkOrder: 1412840

Lab Batch ID: 47569

Method Blank

RunID: 66884 Units: mg/L SeqNo 1454253 Analysis Date: 12/16/2014 11:47:33 AM Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr: DCAA	0.049	0	

Laboratory Control Sample (LCS/LFB)

66884 SeqNo 1454254 RunID: Units: mg/L Analysis Date: 12/16/2014 12:03:19 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result		_	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0.02000	0.017	83.8						47	152	
2,4,5-TP (Silvex)	0.01000	0.0092	92.4						44	157	
Surr: DCAA	0.1000	0.051	50.7						36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1412840-001A

RunID: 66884 SeqNo 1454259 Units: mg/L Analysis Date: 12/16/2014 1:22:21 PM Analyst: MJM

Analyte	Sample Result		MS Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0	0.02000	0.019	97.1	39	111							
2,4,5-TP (Silvex)	0	0.01000	0.010	104	48	113	1						
Surr: DCAA		0.1000	0.092	91.9	36	121	1						

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Dilution was required.
- Η Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PLPermit Limit

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit
- RL Reporting Detection Limit



Pace Analytical

PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

PESTICIDES, TCLP Leached Analysis:

WorkOrder:

1412840

Method: 1311_P Lab Batch ID:

47605

Method Blank

66888

RunID:

SeqNo 1454394

Units: mg/L

Analysis Date: 12/15/2014 7:49:29 PM

Analyst: JS

Analyte	Result	Rep Limit	Rep Qual
gamma-BHC	< 0.00020	0.00020	
Heptachlor	< 0.00020	0.00020	
Heptachlor epoxide	< 0.00020	0.00020	
Endrin	< 0.00040	0.00040	
Methoxychlor	< 0.0020	0.0020	
Toxaphene	< 0.020	0.020	
Chlordane	< 0.0040	0.0040	
Surr: Tetrachloro-m-xylene	0.00036	0	
Surr: Decachlorobiphenyl	0.00043	0	

Laboratory Control Sample (LCS/LFB)

RunID: 66888 SeqNo 1454395 Units: mg/L Analysis Date: 12/15/2014 8:10:32 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	_	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	.0008000	0.00067	83.9					27	146	
Heptachlor	.0008000	0.00068	85.1					10	148	
Heptachlor epoxide	.0008000	0.00072	90.1					28	144	
Endrin	.0008000	0.00074	92.5					22	152	
Methoxychlor	.0008000	< 0.0020	104					19	146	
Surr: Tetrachloro-m-xylene	.0004000	0.00037	93.1					30	150	
Surr: Decachlorobiphenyl	.0004000	0.00045	114					30	150	

Laboratory Control Sample (LCS/LFB)

RunID: 66888 SeqNo 1454396 Units: mg/L Analysis Date: 12/15/2014 8:31:41 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result		_	 LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Toxaphene	0.04000	0.039	97.9					46	168	E
Surr: Tetrachloro-m-xylene	.0004000	0.00031	78.7					30	150	
Surr: Decachlorobiphenyl	.0004000	0.00037	93.6					30	150	

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Dilution was required.
- Η Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PLPermit Limit

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- RSD is greater than RSDlimit O
- RLReporting Detection Limit





PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached

1311_P

WorkOrder: 1412840

Lab Batch ID: 47605

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1412840-001a

Method:

RunID: 66888 SeqNo 1454401 Units: mg/L Analysis Date: 12/15/2014 10:16:58 PM Analyst: JS

Analyte	Sample Result			MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	0	0008000	0.00052	65.0	58	124							
Heptachlor	0	0008000	0.00053	66.4	61	110							
Heptachlor epoxide	0	0008000	0.00057	71.6	52	131							
Endrin	0	0008000	0.00063	79.1	57	147							
Methoxychlor	0	0008000	0.0020	92.9	51	124							
Surr: Tetrachloro-m-xylene		004000	0.00033	81.8	30	150							
Surr: Decachlorobiphenyl		004000	0.00038	94.6	30	150							

Laboratory Control Sample (LCS/LFB)

RunID: 66432 SeqNo 1443607 Units: mg/L Analysis Date: 12/4/2014 7:25:59 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: DCAA	0.1000	0.11	106					36	121	

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Dilution was required.
- Η Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PLPermit Limit

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit
- RL Reporting Detection Limit





PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

TEL: (631) 694-3040 FAX: (631) 420-8436 Website: www.pacelabs.com

Sample Receipt Checklist

Client Name PACE-NY Date and Time Received: 12/10/2014 11:15:00 AM RcptNo: 1 Received by Work Order Number: 1412840 M. Wart Completed by: Reviewed by: 12/17/2014 4:33:06 PM Completed Date: 12/11/2014 10:58:01 AM Reviewed Date: Carrier name: FedEx ✓ No 🗌 Chain of custody present? Yes **~** No 🗌 Chain of custody signed when relinquished and received? Yes **~** Chain of custody agrees with sample labels? No Yes ~ Are matrices correctly identified on Chain of custody? Yes No 🗀 Is it clear what analyses were requested? Yes ~ No \square No 🗌 **V** Custody seals intact on sample bottles? Yes Not Present Samples in proper container/bottle? Yes ~ No **~** No 🗌 Were correct preservatives used and noted? Yes NA Preservative added to bottles: **~** Broken 🗔 Sample Condition? Intact Leaking **~** No 🗌 Sufficient sample volume for indicated test? Yes **~** No 🗀 Were container labels complete (ID, Pres, Date)? Yes **~** All samples received within holding time? No 🗀 Yes **V** No 🗌 Was an attempt made to cool the samples? Yes NA **V** No 🗌 NA All samples received at a temp. of > 0° C to 6.0° C? Yes Response when temperature is outside of range: Sample Temp. taken and recorded upon receipt? Yes **~** No 🗌 4 4 ° To No 🗀 **✓** Water - Were bubbles absent in VOC vials? Yes No Vials No \square **V** Water - Was there Chlorine Present? No \square **V** No Water Water - pH acceptable upon receipt? Yes Yes 🗸 No 🗌 Are Samples considered acceptable? No 🗹 Custody Seals present? Yes Air Bill 🔽 Sticker Not Present Airbill or Sticker? Airbill No: Case Number: SDG: SAS: Any No response should be detailed in the comments section below, if applicable. ☐ No ✓ NA Client Contacted? Yes Person Contacted: Contact Mode: Phone: Fax: Email: In Person: Client Instructions: Date Contacted: Contacted By: Regarding: Comments: CorrectiveAction:





 $\frac{\text{WorkOrder:}}{1412840}$

Certifications

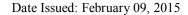
STATE	CERTIFICATION#
NEW YORK	1 0478
NEWJERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS ETTS	MNY026
NEW HAMPS HIRE	2987
RHODE IS LAND	LAO00340
PENNS YLVANIA	68-00350

Page 6 of 6

12

PACE-L)

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2190 Technology Drive, Schenectady, NY 12308	, Schenecta	dy, NY 12	308	LRF # 14120180			ARCHI	ARCHIVAL BY RECEIVING LAB	/ING LAB	
Telephone (518) 346-4a www.pacelabs.com	592 Fax (518) 381-	-6055	(LAB US	(LAB USE ONLY)	Additional char Call for details.	Additional charges incurred for disposal (if hazardous) or archival. Call for details.	or disposal (if hazard	dous) or archival.	
CLIENT (REPORTS TO BE SENT TO):		PROJECT#/PROJECT NAME:	DJECT NAME:			ENTER AN	ENTER ANALYSIS AND METHOD NUMBER REQUESTED	THOD NUMBE	R REQUESTED	
PACE		14120180			PRESERVATIVE CODE:	ODE:			PRES	PRESERVATIVE KEY
		LOCATION (CITY/STATE) ADDRE	Y/STATE) ADD	RESS:	BOTTLE TYPE:	.::			0 - ICE	<u> </u>
PROJECT MANAGER:		r			BOTTLE SIZE:				1 - HGL	ರ
Kelly Miller		ž			 84	_	<u></u>		72-4	2 - HNO3 3 - H2SO4
SAMPLED BY: (Please Print)		REQUIRED TURN AROUND TIME	EN AROUND TIN	лЕ: 12/18/2014	HAINE -	9.	\	<u></u>	4-h	4 - NaOH 5 - Zn. Acetate
SAMPLING FIRM:						19H	<u></u>	\ \ \	N-9 /	6 - МеОН
		NAME OF COURIER (IF USED):	RIER (IF USED)		_	למוטן במושיל			7-8	7 - NaHSO4 8 - Other (Na2SO3)
ELECTRONIC RESULTS				LAB	<u>\</u>	<u></u>	<u></u>	\ \		
FAXED RESULTS FAX#:			GRAB/	SAMPLE ID	VUV	\	\ \	\ \		
SAMPLE ID D.	DATE TIME	MATRIX	COMP	(LAB USE ONLY)	/				/ REMARKS:	S:
D-08	12/8/14 15:20	S	COMP	AR47093	2 X	×			1412840	
AMBIENT OB CHILLED: TEMP:		COC TAPE	>		PROPERLY PRESERVED:	\ _ _ _	z	OTHER NOTES: And	OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE): EQUIS-DEC-DE
R LEAKING:	z	COC DISCREPANCIES:		N	RECVD W/I HOLDING TIMES:	MES:	Z			
	RECEIVED BY			RELINQUISHED BY	RECEIVED BY	BY		RELINQUISHED BY	RECEIVED BY	*
SIGNATURE (16/12) SIG		EDEX	SIGNATURE	10 PM	SIGNATURE	\	SIGNATURE		SIGNATURE	
IAME (DC	PRINTED NAME		PRINTED NAME		PRINTED NAME		PRINTED NAME		PRINTED NAME	
h	COMPANY		COMPANY		COMPANÝ		COMPANY		COMPANY	
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Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): January 29, 2015

Lab Report ID: 15010580

Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS (TCLP)
SVOCs by GCMS (TCLP)
PCB Analysis
Herbicides (TCLP) - Sub - Pace-LI
TCLP Pesticides - Sub - Pace-LI
Mercury Analysis (TCLP)
Metals by ICP (TCLP- RCRA)
Percent Total Solid

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith Technical Director TNI IMBORATORI

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 15010580) consists of 1 soil sample received on 01/29/2015. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	Client ID	Collection Date
AS02427	D-09	01/29/2015 09:45

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 01/29/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved with any exceptions listed below: Samples received outside acceptable temperature limits of 0-6C.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Metals Analysis by ICP

Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

(1.) Please see Pace NY-LI lab report for quality assurance details.

Respectfully submitted,

Kelly A. milen

Kelly A. Miller

Project Manager

QUALIFIERS

Definitions

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- MDL Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- PQL Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY



New York Office 2190 Technology Dr. Schenectady, NY 12308 (518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed

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(316) 340-4382																		- 1											
Section A Required Client Information:	Section B				Sectio														. 1	5010)5801					Page	e: 1	of	1	7
Company: Barton and Loguidice DPC	Required Pro				Attentio	Informatio			- D-					_					_											_
Address: 10 Airline Drive, Suite 200										yable										R	EGI	JLAT	ГOR	Y A	GEN	CY				
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Albany, NY 12205					Addres	s:		Elwood cuse N		Road, E	3ox 31	107				UST	-	1	RCR	RA			\$	TC	HER_					
Email To: <u>nshaffer@bartonandloguidice.cor</u>	n Purchase Order No.:				Pace Quo	ote Referer		000									S	ΠE			j**	G/	١	IL.	game	N		11	1C	\dashv
Phone: 518-218-1801 Fax: 518-218-1805	Project Name	: ALC	0		Pace Pro	ject Manag	er:	Kelly	/ Mille	er				1			LOC	ATIC	N			OH						THER_		
Requested Standard Due Date/TAT:	Project Number	1368	3.001.001	1	Pace Pr	ofile #:									Filter	red (Y	//N)		//,	//	7	77	77	77	77,	77	77,	7//	/	\exists
Section D Valid Matrix Code Required Client Information DRAWING WATER WASER	CODE	YPE COMP		COLL	ECTED		MP AT ON	NERS		Pi	reser	vative	s	Т	Requ Ana	Jeste	d /			//		//	1		//	// /		<i>1</i> /		1
SAMPLE ID WASTE WATER PRODUCT SOLUSOUID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE AIR OTHER	WW P SL OL WP AR OT	SAMPLE TYPE G=GRAB C=COMP	CON	MPOSITE FART	COMP END/		AMPLE TEI COLLECT	# OF CONTAINERS	Unpreserved	-			s le			Jonie		//			//	//		//	///		Chorine (Y)			
Sample IDs MUST BE UNIQUE OTHER TISSUE	TS		DATE	TIME	DATE	TIME	S	#	Unpre	H ₂ SO ₄	ᅙ	NaOH	Na ₂ S ₂ O ₃ Methanol	Other	/	/,º/ /	[/	//	///	//,	//	///		//	///	Residi	E .	Pac	e Project N Lab I	
D-09	s	L C	1/25	5:45	1/29	5:45		4	x						,	x					AS	O	Y	2	7				260, 8270, pesticides	
2			<u> </u>		1								\perp														met	tals, and Regular	mercury.	-
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4																														1
5																										П				1
6																П				П						П				1
7																TT				11		П	П			M				1
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9															\top	H	\top			\Box	\dagger			+	H	H				1
10												\top	1		-	$\dagger \dagger$	$\dagger \dagger$		+	H	+	\vdash	$\dagger \dagger$	+	H	H	<u></u>			1
11											1	1	\top		+	$\dagger \dagger$	+	+		${\dagger}$	-		H		H	H				+
12							7		+			-			+	\forall	$\dagger \dagger$	+	\vdash	H	+		H		H	H				┨
ADDITIONAL COMMENTS	RELING	QUISHE	D BY / A	AFFILIAT	ΓΙΟΝ	DATE		TI	ME		AC(CEPT	ED E	Y / A	FFIL	JATIO	NC	11		DA	ATE		T	ME		SA	MPLE	CONDI	TIONS	┨
Standard Deliverables	j./	TAI	X			1/29	15	10	(21)	5	Ø	Bu	tte	- H /	PA	lei	<i>></i> \		í,	laa	/15	5 1	^ ·	2 <i>1</i>	6	.8	Ø,	(2)	3	1
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Page Applytical Services Inc			Ĺ			, avii EEN		ebruar	100	2015	h	4	-			(N	MM / DI	gned D / YY):	_/	12	29/	15						NS Ga		F 16
Pace Analytical Services, Inc.							re	oruan	y 09,	∠U13#	1	ν								′	e-Fi	le(AL	LOO	20re	v.4.29)Mar(13011 06122.	საგს - .lun200-	Page 10 o	140



Sample Condition Upon Receipt

<15010580P2>
157101000

CLIENT NAME: BAR-ALB

						PROJECT: ACCO		
COURIER: FedEx UPS Clie TRACKING # / /A	ent of	Pace CUSTO	Other DY SEAL PRES		No ≥	INTACT: Yes 🗆	No 🗆	N/A×
PACKING MATERIAL: Bubble Wrap	Bubble Bag		None 🎾	Other	·	ICE USED: Wet	Blue □ N	lone 🗽
THERMOMETER USED: #164 □ IR Gu	n 03)x/	#12208	37967 □		COOLER TE	MPERATURE (°C): <u></u>	· 8	
BIOLOGICAL TISSUE IS FROZEN: Yes	No 🗆	N/A				Temp should be above	freezing to 6°C	
					COMMENT	S:		
Chain of Custody Present:	Yes	□No		1.				
Chain of Custody Filled Out:	Yes	□No		2.				
Chain of Custody Relinquished:	≱Yes	□No		3.				
Sampler Name / Signature on COC:	Yes	□No	<u>.</u>	4.				
Samples Arrived within Hold Time:	Yes	□No		5.				
Short Hold Time Analysis (<72hr):	□Yes	Mo		6.				
Rush Turn Around Time Requested:	□Yes	⊠No		7.				
Sufficient Volume:	Yes	, No		8.				
Correct Containers Used:	Yes	□No		9.				
- Pace Containers Used:	Yes	□No						v-10
Containers Intact:	Yes	□No		10.				
Filtered volume received for Dissolved tests:	□Yes	□No	⊠ N/A	11.				
Sample Labels match COC:	Yes	□No		12.				
- Includes date/time/ID/Analysis								
All containers needing preservation have been checked:	□Yes	No	⊠ N/A	13.				
All containers needing preservation are in	□Yes	□No	Ø N/A					
compliance with EPA recommendation:				Initial whe	n 📆 📗	Lot # of a	idded preservativ	e:
- Exceptions that are not checked: VOA				completed	: 4/4	-	NA	
Headspace in VOA Vials (>6mm):	□Yes	□No	⊠ N/A	14.				
Trip Blank Present:	□Yes	□No	⋈ N/A	15.				
Trip Blank Custody Seals Present:	□Yes	□No	√QN/A					
Pace Trip Blank Lot #: N /A							X 1	0 1000=
Sample Receipt form filled in: ASB 1/29/	15	Line-Ou	t (Includes Co	pying Shippi	ng Documen	ts and verifying sample	pH): (3)	P 1/94/12

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): **Labeling** (Includes Scanning Bottles and entering LAB IDs into pH logbook):

SAMPLE RECEIPT





SAMPLE RECEIPT REPORT 15010580

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE

PROJECT: ALCO LRF: 15010580

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: 7 DAYS RECEIVED DATE: 01/29/2015 10:21

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,2}SAMPLES PRESERVED PER METHOD GUIDANCE: NO ³ SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID: N. SHAFFER/BAR-ALB NUMBER OF COOLERS: 0 **DISPOSAL:** BY LAB (45 DAYS)

CUSTODY SEAL INTACT: NA COOLER STATUS: AMBIENT **TEMPERATURE(S):** ⁵6.8 (IR) °C

COC DISCREPANCY: NO

COMMENTS:

UPON RECEIPT AT THE LAB, SAMPLE TEMPERATURE WAS GREATER THAN 6C. NO ICE WAS PRESENT.

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-09 (AS02427)	7 DAYS 02-09-15	01/29/2015 09:45	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	SW-846 8081	TCLP Pesticides - Sub - Pace-LI	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	SW-846 8151A	Herbicides (TCLP) - Sub - Pace-LI	

The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.

Reporting Parameters and Lists

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)

Arsenic Barium Cadmium Chromium Lead Selenium Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)

Mercury

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260

Total PCB Amount > RL

EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)

1,1-Dichloroethene 1.2-Dichloroethane 2-Butanone Benzene

Carbon Tetrachloride Chlorobenzene Chloroform Tetrachloroethene Trichloroethene Vinyl Chloride

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)

1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane m&p-Methylphenol Nitrobenzene o-Methylphenol Pentachlorophenol Pyridine

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²The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

³Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it 4 is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

GC/MS Volatiles



Analytical Sample Results

Job Number: 15010580

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-09

Lab Sample ID: 15010580-01 (AS02427)

Collection Date: 01/29/2015 09:45 Sample Matrix: SOIL(TCLP) Received Date: 01/29/2015 10:21

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column	
Analysis 1:	MS11-22-13	EPA 8260C - TCLP-ZHE SW-846	1311 01/30/2015 16:00	TJH	NA	NA	N/A	
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID	
1,1-Dichloro	ethene	75-35-4	ND	1.00	1.00	U	MS11-22-13	
1,2-Dichloro	ethane	107-06-2	ND	1.00	1.00	U	MS11-22-13	
2-Butanone		78-93-3	ND	5.00	1.00	U	MS11-22-13	
Benzene		71-43-2	ND	1.00	1.00	U	MS11-22-13	
Carbon Tetra	achloride	56-23-5	ND	1.00	1.00	U	MS11-22-13	
Chlorobenze	ne	108-90-7	ND	1.00	1.00	U	MS11-22-13	
Chloroform		67-66-3	ND	1.00	1.00	U	MS11-22-13	
Tetrachloroe	thene	127-18-4	ND	1.00	1.00	U	MS11-22-13	
Trichloroethe	ene	79-01-6	ND	1.00	1.00	U	MS11-22-13	
Vinyl Chlori	de	75-01-4	ND	1.00	1.00	U	MS11-22-13	
				Lin	nite			
Surrogate		CAS No.	% Recovery	(%		$\mathbf{Q}^{^{1}}$	File ID	
4-Bromofluo	robenzene	460-00-4	101	76.0	-128		MS11-22-13	
Dibromofluo	romethane	1868-53-7	97.5	73.6	-		MS11-22-13	
Toluene-d8		2037-26-5	101	84.4	-115		MS11-22-13	
1,2-Dichloro	ethane-d4	17060-07-0	91.8	79.9	-120		MS11-22-13	

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Sample temperature was outside of method acceptance limits at the time of receipt.

GC/MS Semivolatiles



Analytical Sample Results

Job Number: 15010580

Pace Analytical Services, Inc.

Column

MS07-1479-11

MS07-1479-11

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Batch ID

Method

Project: ALCO

Pyridine

Pentachlorophenol

Client Sample ID: D-09

Lab Sample ID: 15010580-01 (AS02427)

Collection Date: 01/29/2015 09:45 Sample Matrix: SOIL(TCLP) Received Date: 01/29/2015 10:21

Analyst Init Wt./Vol. Final Vol.

1.00

1.00

U

U

Percent Solid: N/A

Analysis 1:	MS07-1479-11	SW-846 8270D/TCLP Extraction M	Iethod 131 D2/04/2015 17:43	RMS	NA	NA	Varian, VF-5MS,30 m, 0.25 mm ID, 0.25 μm
Prep 1:	30035	EPA 3510C	02/04/2015 08:59	KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichloro	obenzene	106-46-7	ND	50.0	1.00	U	MS07-1479-11
2,4,5-Trichle	orophenol	95-95-4	ND	50.0	1.00	U	MS07-1479-11
2,4,6-Trichle	orophenol	88-06-2	ND	50.0	1.00	U	MS07-1479-11
2,4-Dinitrote	oluene	121-14-2	ND	50.0	1.00	U	MS07-1479-11
Hexachlorol	benzene	118-74-1	ND	50.0	1.00	U	MS07-1479-11
Hexachlorol	butadiene	87-68-3	ND	50.0	1.00	U	MS07-1479-11
Hexachloroe	ethane	67-72-1	ND	50.0	1.00	U	MS07-1479-11
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS07-1479-11
Nitrobenzen	ie	98-95-3	ND	50.0	1.00	U	MS07-1479-11
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS07-1479-11

Date

ND

ND

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
2,4,6-Tribromophenol	118-79-6	87.6	22.8-161	MS07-1479-11
2-Fluorobiphenyl	321-60-8	69.4	26.3-121	MS07-1479-11
2-Fluorophenol	367-12-4	38.4	10.0-86.4	MS07-1479-11
Terphenyl-d14	1718-51-0	67.6	33.7-154	MS07-1479-11
Nitrobenzene-d5	4165-60-0	67.5	12.7-139	MS07-1479-11
Phenol-d6	13127-88-3	25.2	10.0-87.4	MS07-1479-11

50.0

50.0

87-86-5

110-86-1

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Sample temperature was outside of method acceptance limits at the time of receipt.

GC - PCB



Analytical Sample Results

Job Number: 15010580

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE Collection Date: 01/29/2015 09:45

Project: ALCO Sample Matrix: SOIL

Client Sample ID: D-09 Received Date: 01/29/2015 10:21

Lab Sample ID: 15010580-01 (AS02427) Percent Solid: 80.2 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC20F-2114-	7 SW-846 8082A (PCB)	02/05/2015 10:14	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 30025	EPA 3545A	02/03/2015 12:09	MH	10.5 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1221	11104-28-2	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1232	11141-16-5	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1242	53469-21-9	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1248	12672-29-6	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1254	11097-69-1	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1260	11096-82-5	ND	0.0591	1.00	U	GC20F-2114-7
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC20F-2114-7
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	\mathbf{Q}^1	File ID
Tetrachloro-meta-xylene	877-09-8	86.7	60.0	-140		GC20F-2114-7
Decachlorobiphenyl	2051-24-3	97.0	60.0	-140		GC20F-2114-7

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Sample temperature was outside of method acceptance limits at the time of receipt.

Mercury





Analytical Sample Results

Job Number: 15010580

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO Client Sample ID: D-09

Lab Sample ID: 15010580-01 (AS02427)

Collection Date: 01/29/2015 09:45 Sample Matrix: SOIL(TCLP) Received Date: 01/29/2015 10:21

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1845-49	SW-846 7470/TCLP 1311	02/04/2015 15:17	CYC	NA	NA	NA
Prep 1:	5384	EPA 7470A	02/03/2015 09:34	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1845-49

ND: Denotes analyte not detected at a concentration greater than the PQL.

Sample temperature was outside of method acceptance limits at the time of receipt.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Metals - ICP





Analytical Sample Results

Job Number: 15010580

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-09

Lab Sample ID: 15010580-01 (AS02427)

Collection Date: 01/29/2015 09:45 Sample Matrix: SOIL(TCLP) Received Date: 01/29/2015 10:21

Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1488-25	EPA 6010C/TCLP 1311	02/03/2015 12:13	LMS	NA	NA	NA
Prep 1:	5381	EPA 3005A	01/30/2015 12:00	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1488-25
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1488-25
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1488-25
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1488-25
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1488-25
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1488-25
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1488-25

ND: Denotes analyte not detected at a concentration greater than the PQL.

Sample temperature was outside of method acceptance limits at the time of receipt.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)



Quality Control Results Matrix Spike Sample (MS)

Job Number: 15010580

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-09 MS

Lab Sample ID: 15010580-01M (AS02427M)

Collection Date: N/A

Sample Matrix: SOIL(TCLP)

Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS07-1479-12	SW-846 8270D/TCLP Extraction N	Method 131102/04/2015 18	:27 RMS	NA	NA	Varian, VF-5MS,30 m, 0.25 mm ID, 0.25 μm
Prep 1:	30035	EPA 3510C	02/04/2015 08	:59 KEN	200 mL	1.00 mL	NA
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fac	tor Flags	File ID
1,4-Dichlorob	enzene	106-46-7	251	50.0	1.00		MS07-1479-12
2,4,5-Trichlor	ophenol	95-95-4	396	50.0	1.00		MS07-1479-12
2,4,6-Trichlor	rophenol	88-06-2	354	50.0	1.00		MS07-1479-12
2,4-Dinitrotol	uene	121-14-2	493	50.0	1.00		MS07-1479-12
Hexachlorobe	enzene	118-74-1	290	50.0	1.00		MS07-1479-12
Hexachlorobu	ıtadiene	87-68-3	237	50.0	1.00		MS07-1479-12
Hexachloroet	hane	67-72-1	220	50.0	1.00		MS07-1479-12
m&p-Methyl	ohenol	108-39-4/106-44-5	658	50.0	1.00	E	MS07-1479-12
Nitrobenzene		98-95-3	315	50.0	1.00		MS07-1479-12
o-Methylpher	nol	95-48-7	273	50.0	1.00		MS07-1479-12
Pentachloropl		87-86-5	482	50.0	1.00		MS07-1479-12
Pyridine		110-86-1	155	50.0	1.00		MS07-1479-12
		San	nple Added	MS M	IS L	imits	
Analyte Spi	ked	CAS No. (ug	•			(%)	
1,4-Dichlorobe	nzene	106-46-7				7.0-123	
2.4.5-Trichloro	phenol	95-95-4	500 3	96 7	9.2. 30	0.0-128	

	S	ample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	(ug/L)	% Rec.	$\mathbf{Q}^{^{1}}$	(%)	
1,4-Dichlorobenzene	106-46-7		500	251	50.3		27.0-123	
2,4,5-Trichlorophenol	95-95-4		500	396	79.2		30.0-128	
2,4,6-Trichlorophenol	88-06-2		500	354	70.8		37.0-144	
2,4-Dinitrotoluene	121-14-2		500	493	98.5		37.0-121	
Hexachlorobenzene	118-74-1		500	290	57.9		42.0-117	
Hexachlorobutadiene	87-68-3		500	237	47.5		31.0-110	
Hexachloroethane	67-72-1		500	220	44.0		24.0-124	
m&p-Methylphenol	108-39-4/106-44-5		1000	658	65.8		22.0-139	
Nitrobenzene	98-95-3		500	315	63.0		34.0-119	
o-Methylphenol	95-48-7		500	273	54.7		26.0-128	
Pentachlorophenol	87-86-5		500	482	96.3		4.00-113	
Pyridine	110-86-1		500	155	31.0		1.00-105	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
2,4,6-Tribromophenol	118-79-6	87.4	22.8-161	MS07-1479-12
2-Fluorobiphenyl	321-60-8	71.1	26.3-121	MS07-1479-12
2-Fluorophenol	367-12-4	37.5	10.0-86.4	MS07-1479-12
Terphenyl-d14	1718-51-0	61.4	33.7-154	MS07-1479-12
Nitrobenzene-d5	4165-60-0	64.0	12.7-139	MS07-1479-12
Phenol-d6	13127-88-3	24.9	10.0-87.4	MS07-1479-12

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Sample temperature was outside of method acceptance limits at the time of receipt.

Quality Control Samples (Lab)





Quality Control Results Lab Control Sample (LCS)

Job Number: 15010580

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AS02132L)

Lab Sample ID: LCS-92

		Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
l	Analysis 1:	MS11-22-4	EPA 8260C - TCLP-ZHE SW-846 1311	01/30/2015 11:20	ТЈН	NA	NA	N/A

		Added	LCS	LCS	Limit	S
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	Q' (%)	
1,1-Dichloroethene	75-35-4	40.0	40.7	102	70.0-13	30
1,2-Dichloroethane	107-06-2	40.0	37.8	94.6	70.0-13	30
2-Butanone	78-93-3	40.0	38.7	96.7	70.0-13	30
Benzene	71-43-2	40.0	38.2	95.4	70.0-13	30
Carbon Tetrachloride	56-23-5	40.0	40.5	101	70.0-13	30
Chlorobenzene	108-90-7	40.0	38.2	95.4	70.0-13	30
Chloroform	67-66-3	40.0	39.5	98.6	70.0-13	30
Tetrachloroethene	127-18-4	40.0	39.9	99.7	70.0-13	30
Trichloroethene	79-01-6	40.0	42.0	105	70.0-13	30
Vinyl Chloride	75-01-4	40.0	38.4	96.0	70.0-13	30

¹Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits		
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID	
4-Bromofluorobenzene	460-00-4	101	76.0-128	MS11-22-4	
Dibromofluoromethane	1868-53-7	103	73.6-132	MS11-22-4	
Toluene-d8	2037-26-5	97.7	84.4-115	MS11-22-4	
1.2-Dichloroethane-d4	17060-07-0	97.5	79.9-120	MS11-22-4	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 15010580

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AS02427B-ZHE)

Lab Sample ID: VBLK-92

	Batch ID	Method	Date	Analyst	Init Wt./Vol. F	inal Vol.	Column	
Analysis 1:	MS11-22-5	EPA 8260C - TCLP-ZHE SW-846	1311 01/30/2015 11:4	7 TJH	NA	NA	N/A	
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Factor	· Flags	File ID	
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS11-22-5	
1,2-Dichloro	ethane	107-06-2	ND	10.0	10.0	U	MS11-22-5	
2-Butanone		78-93-3	ND	50.0	10.0	U	MS11-22-5	
Benzene		71-43-2	ND	10.0	10.0	U	MS11-22-5	
Carbon Tetra	achloride	56-23-5	ND	10.0	10.0	U	MS11-22-5	
Chlorobenze	ne	108-90-7	ND	10.0	10.0	U	MS11-22-5	
Chloroform		67-66-3	ND	10.0	10.0	U	MS11-22-5	
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS11-22-5	
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS11-22-5	
Vinyl Chlori	de	75-01-4	ND	10.0	10.0	U	MS11-22-5	
				Lin	aite			
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID	
4-Bromofluc	robenzene	460-00-4	100	76.0	-128		MS11-22-5	
Dibromofluc	romethane	1868-53-7	100	73.6	-132		MS11-22-5	
Toluene-d8		2037-26-5	100		-115		MS11-22-5	
1,2-Dichloro	ethane-d4	17060-07-0	98.2	79.9	-120		MS11-22-5	

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 15010580

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AS02427B)

Lab Sample ID: SBLK-68

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column		
Analysis 1:	MS07-1479-9	SW-846 8270D/TCLP Extraction M		RMS	NA	NA	Varian, VF-5MS,30 m, 0.25 mm ID, 0.25 μm		
Prep 1:	30035	EPA 3510C	02/04/2015 08:59	KEN	200 mL	1.00 mL	NA		
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Facto	or Flags	File ID		
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS07-1479-9		
2,4,5-Trichle	orophenol	95-95-4	ND	50.0	1.00	U	MS07-1479-9		
2,4,6-Trichle	orophenol	88-06-2	ND	50.0	1.00	U	MS07-1479-9		
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS07-1479-9		
Hexachlorob	penzene	118-74-1	ND	50.0	1.00	U	MS07-1479-9		
Hexachlorob	outadiene	87-68-3	ND	50.0	1.00	U	MS07-1479-9		
Hexachloroe	ethane	67-72-1	ND	50.0	1.00	U	MS07-1479-9		
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS07-1479-9		
Nitrobenzen	e	98-95-3	ND	50.0	1.00	U	MS07-1479-9		
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS07-1479-9		
Pentachloro	phenol	87-86-5	ND	50.0	1.00	U	MS07-1479-9		
Pyridine	•	110-86-1	ND	50.0	1.00	U	MS07-1479-9		
				Lin	nits				
Surrogate		CAS No.	% Recovery	(%		$\mathbf{Q}^{^{1}}$	File ID		
2,4,6-Tribro	mophenol	118-79-6	68.2	22.8	-161		MS07-1479-9		
2-Fluorobipl	henyl	321-60-8	70.2	26.3	-121	MS07-1479-9			
2-Fluorophe	nol	367-12-4	34.0	10.0-	-86.4		MS07-1479-9		
Terphenyl-d		1718-51-0	65.3	33.7			MS07-1479-9		
Nitrobenzen	e-d5	4165-60-0	66.7	12.7	12.7-139		12.7-139 MS07-1		MS07-1479-9
Phenol-d6		13127-88-3	24.2	10.0-	-87.4		MS07-1479-9		

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 15010580

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AS02427L)

Lab Sample ID: LCS-68

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS07-1479-10	SW-846 8270D/TCLP Extraction Method 13	31102/04/2015 16:59	RMS	NA	NA	Varian, VF-5MS,30 m, 0.25 mm ID, 0.25 μm
Prep 1:	30035	EPA 3510C	02/04/2015 08:59	KEN	200 mL	1.00 mL	NA

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	$\mathbf{Q}^{^{1}}$	(%)	
1,4-Dichlorobenzene	106-46-7	500	281	56.2		27.0-123	
2,4,5-Trichlorophenol	95-95-4	500	372	74.4		30.0-128	
2,4,6-Trichlorophenol	88-06-2	500	343	68.6		37.0-144	
2,4-Dinitrotoluene	121-14-2	500	490	98.1		37.0-121	
Hexachlorobenzene	118-74-1	500	355	70.9		42.0-117	
Hexachlorobutadiene	87-68-3	500	243	48.5		31.0-110	
Hexachloroethane	67-72-1	500	254	50.7		24.0-124	
m&p-Methylphenol	108-39-4/106-44-5	1000	699	69.9		22.0-139	
Nitrobenzene	98-95-3	500	313	62.7		34.0-119	
o-Methylphenol	95-48-7	500	293	58.6		26.0-128	
Pentachlorophenol	87-86-5	500	492	98.4		4.00-113	
Pyridine	110-86-1	500	196	39.2		1.00-105	

¹ Qualifier column where **' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q ¹ File ID
2,4,6-Tribromophenol	118-79-6	76.5	22.8-161	MS07-1479-10
2-Fluorobiphenyl	321-60-8	74.0	26.3-121	MS07-1479-10
2-Fluorophenol	367-12-4	39.9	10.0-86.4	MS07-1479-10
Terphenyl-d14	1718-51-0	66.4	33.7-154	MS07-1479-10
Nitrobenzene-d5	4165-60-0	66.8	12.7-139	MS07-1479-10
Phenol-d6	13127-88-3	27.2	10.0-87.4	MS07-1479-10

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 15010580

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AS02313B)

Lab Sample ID: PBLK-40

Bar	tch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC2	20F-2114-4	SW-846 8082A (PCB)	02/05/2015 09:36	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 3002	25	EPA 3545A	02/03/2015 12:07	MH	10.2 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1221		11104-28-2	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1232		11141-16-5	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1242		53469-21-9	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1248		12672-29-6	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1254		11097-69-1	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1260		11096-82-5	ND	0.0500	1.00	U	GC20F-2114-4
Total PCB Amount	t > RL	1336-36-3	ND		1.00	U	GC20F-2114-4
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	5)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-x		877-09-8	78.9	60.0	-140		GC20F-2114-4
Decachlorobipheny	yl	2051-24-3	101	60.0	-140		GC20F-2114-4

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 15010580

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AS02313L)

Lab Sample ID: LCS-40

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2114-5	SW-846 8082A (PCB)	02/05/2015 09:49	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1:	30025	EPA 3545A	02/03/2015 12:08	MH	10.4 g	25.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	% Rec.	Q ¹ (%)	
Aroclor 1242	53469-21-9	1.21	0.961	79.7	70.0-130	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	Q¹ File ID
Tetrachloro-meta-xylene	877-09-8	71.5	60.0-140	GC20F-2114-5
Decachlorobiphenyl	2051-24-3	87.7	60.0-140	GC20F-2114-5

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 15010580

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AS02121B)

Lab Sample ID: PBW-39

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1845-47	SW-846 7470/TCLP 1311	02/04/2015 15:14	CYC	NA	NA	NA
Prep 1:	5384	EPA 7470A	02/03/2015 09:34	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1845-47

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 15010580

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AS02121L)

Lab Sample ID: LCS-39

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1845-48	SW-846 7470/TCLP 1311	02/04/2015 15:15	CYC	NA	NA	NA
Prep 1:	5384	EPA 7470A	02/03/2015 09:34	CYC	4.00 mL	40.0 mL	NA

		Added	LCS	LCS	Limit	S	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	Q ' (%)		
Mercury	7439-97-6	0.0300	0.0337	112	80.0-12	20	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Method Blank

Job Number: 15010580

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AS02070B)

Lab Sample ID: PBW-36

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1488-23	EPA 6010C/TCLP 1311	02/03/2015 12:08	LMS	NA	NA	NA
Prep 1:	5381	EPA 3005A	01/30/2015 12:00	CYC	10.0 mL	50.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or Flags	File ID
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1488-23
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1488-23
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1488-23
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1488-23
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1488-23
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1488-23
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1488-23

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 15010580

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AS02070L)

Lab Sample ID: LCS-36

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1488-24	EPA 6010C/TCLP 1311	02/03/2015 12:11	LMS	NA	NA	NA
Prep 1:	5381	EPA 3005A	01/30/2015 12:00	CYC	10.0 mL	50.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	$\mathbf{Q}^{^{1}}$	Limits (%)
Arsenic	7440-38-2	12.5	13.6	109		85.0-115
Barium	7440-39-3	25.0	25.0	100		85.0-115
Cadmium	7440-43-9	5.00	5.16	103		85.0-115
Chromium	7440-47-3	12.5	12.7	101		85.0-115
Lead	7439-92-1	12.5	12.7	102		85.0-115
Selenium	7782-49-2	5.00	5.56	111		85.0-115
Silver	7440-22-4	12.5	12.8	103		85.0-115

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Subcontract Analysis



TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308 LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Lab No. : 1501H35-001

Type: Soil

Sample Information:

Client Sample ID: D-09

: 1/29/2015 9:45:00 AM

William A. Kotas

Origin:

AS02427 Please note samples received out of tempature range at Schenectady lab at 6.8 : 1/30/2015 11:00:00 AM

Collected By CLIENT

Attn To:

Collected

Received

Collected By CLIENT										
Analytical Method:	SW1311/8151	A :	Prep N	Method: SW	1311/8151		Prep Date:	2/4/2015 5:08:53 PM	Analyst:	MJM
Parameter(s)		Results	Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Containe	<u>er:</u>
2,4,5-TP (Silvex)		< 0.002	5	1	mg/L			02/05/2015 11:44 PM	Container-0	01 of 02
2,4-D		< 0.0050	0	1	mg/L			02/05/2015 11:44 PM	Container-0	01 of 02
Surr: DCAA		99.0		1	%REC	Limit	imit 36-121 02/05/2015 11:44		Container-0	01 of 02
Analytical Method:	SW1311/8081	B:	Prep N	Method: SW	3510C		Prep Date:	2/5/2015 8:24:58 PM	Analyst:	JS
Parameter(s)		Results	Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Containe	<u>er:</u>
Chlordane		< 0.0040	0	1	mg/L			02/06/2015 3:32 AM	Container-0	01 of 02
Endrin		< 0.0004	40	1	mg/L			02/06/2015 3:32 AM	Container-0	01 of 02
gamma-BHC		< 0.0002	20	1	mg/L			02/06/2015 3:32 AM	Container-0	01 of 02
Heptachlor		< 0.0002	20	1	mg/L			02/06/2015 3:32 AM	Container-0	01 of 02
Heptachlor epoxide		< 0.0002	20	1	mg/L			02/06/2015 3:32 AM	Container-0	01 of 02
Methoxychlor		< 0.0020	0	1	mg/L			02/06/2015 3:32 AM	Container-0	01 of 02
Toxaphene		< 0.020		1	mg/L			02/06/2015 3:32 AM	Container-0	01 of 02
Surr: Decachlorobip	henyl	101		1	%REC	Limit	30-150	02/06/2015 3:32 AM	Container-0	01 of 02
Surr: Tetrachloro-m-	xylene	185	S	1	%REC	Limit	30-150	02/06/2015 3:32 AM	Container-0	01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

r = Reporting limit > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 2/8/2015

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 1 of 6



Pace Analytical*

PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: HERBICIDES, TCLP Leached

WorkOrder: 1

1501H35

1311_H

Lab Batch ID:

48324

Method Blank

RunID: 69355

Method:

SeqNo 1507740

Units: mg/L

Analysis Date: 2/5/2015 10:57:31 PM

Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr: DCAA	0.064	0	

Laboratory Control Sample (LCS/LFB)

RunID: 69355 SeqNo 1507741 Units: mg/L Analysis Date: 2/5/2015 11:13:20 PM Analysi: MJM

Analyte	LCS Spike Added	LCS Result		_	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0.02000	0.018	92.2						47	152	
2,4,5-TP (Silvex)	0.01000	0.0088	88.1						44	157	
Surr: DCAA	0.1000	0.068	68.1						36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1501H35-001A

RunID: 69355 SeqNo 1507745 Units: mg/L Analysis Date: 2/6/2015 12:16:21 AM Analysi: MJM

Analyte	Sample Result			MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0	0.02000	0.018	89.9	39	111							
2,4,5-TP (Silvex)	0	0.01000	0.0090	89.6	48	113							
Surr: DCAA		0.1000	0.070	70.2	36	121							

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Dilution was required.
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PL Permit Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit
- RL Reporting Detection Limit





PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached

WorkOrder:

1501H35

Method: 1311_P

Lab Batch ID:

48360

Method Blank

RunID: 69351

SeqNo 1507677

Units: mg/L

011

Analysis Date: 2/6/2015 2:29:03 AM

Analyst: JS

Analyte	Result	Rep Limit	Rep Qual
gamma-BHC	< 0.00020	0.00020	
Heptachlor	< 0.00020	0.00020	
Heptachlor epoxide	< 0.00020	0.00020	
Endrin	< 0.00040	0.00040	
Methoxychlor	< 0.0020	0.0020	
Toxaphene	< 0.020	0.020	
Chlordane	< 0.0040	0.0040	
Surr: Tetrachloro-m-xylene	0.00037	0	
Surr: Decachlorobiphenyl	0.00043	0	

Laboratory Control Sample (LCS/LFB)

RunID: 69351 SeqNo 1507678 Units: mg/L Analysis Date: 2/6/2015 2:50:04 AM Analysis JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added		LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	.0008000	0.00074	92.8		•				27	146	
Heptachlor	.0008000	0.00069	86.3						10	148	
Heptachlor epoxide	.0008000	0.00075	93.7						28	144	
Endrin	.0008000	0.00078	97.1						22	152	
Methoxychlor	.0008000	< 0.0020	109						19	146	
Surr: Tetrachloro-m-xylene	.0004000	0.00036	90.5						30	150	
Surr: Decachlorobiphenyl	.0004000	0.00046	114						30	150	

Laboratory Control Sample (LCS/LFB)

RunID: 69351 SeqNo 1507679 Units: mg/L Analysis Date: 2/6/2015 3:11:12 AM Analysi: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	_	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Toxaphene	0.04000	0.036	90.9						46	168	E
Surr: Tetrachloro-m-xylene	.0004000	0.00034	84.7						30	150	
Surr: Decachlorobiphenyl	.0004000	0.00034	86.0						30	150	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Dilution was required.
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PL Permit Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit
- RL Reporting Detection Limit





PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached 1311_P

WorkOrder: 1501H35

Lab Batch ID:

48360

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1501h35-001a

Method:

RunID: 69351 SeqNo 1507683 Units: mg/L Analysis Date: 2/6/2015 4:35:23 AM Analyst: JS

Analyte	Sample Result			MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	0007760	0008000	0.00077	86.1	58	124								
Heptachlor	0	0008000	0.00082	102	61	110								
Heptachlor epoxide	0001296	0008000	0.00089	95.6	52	131								
Endrin	0001480	0008000	0.00079	97.3	57	147								
Methoxychlor	0	0008000	0.0020	125	51	124								
Surr: Tetrachloro-m-xylene		0008000	0.00084	105	30	150								
Surr: Decachlorobiphenyl		004000	0.00041	102	30	150								

Qualifiers:

Value exceeds Maximum Contaminant Level

D Dilution was required.

Η Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

PL Permit Limit В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

N Tentatively identified compounds

O RSD is greater than RSDlimit

RL Reporting Detection Limit





PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

TEL: (631) 694-3040 FAX: (631) 420-8436

Sample Receipt Checklist

Website: www.pacelabs.com Client Name PACE-NY Date and Time Received: 1/30/2015 11:00:00 AM RcptNo: 1 Received by: Jamie Spero Work Order Number: 1501H35 rellin Datchingon. Completed by: Reviewed by: Completed Date: 1/30/2015 11:15:47 AM Reviewed Date: 2/4/2015 5:27:10 PM Carrier name: FedEx **~** No \square Chain of custody present? Yes **~** No 🗌 Chain of custody signed when relinquished and received? Yes **~** Chain of custody agrees with sample labels? No Yes ~ Are matrices correctly identified on Chain of custody? Yes No 🗀 Is it clear what analyses were requested? Yes **~** No \square No 🗌 **V** Custody seals intact on sample bottles? Yes Not Present Samples in proper container/bottle? Yes ~ No **~** No 🗌 Were correct preservatives used and noted? Yes NA Preservative added to bottles: **~** Broken \square Sample Condition? Intact Leaking **~** No 🗌 Sufficient sample volume for indicated test? Yes **~** No 🗀 Were container labels complete (ID, Pres, Date)? Yes **~** No 🗀 All samples received within holding time? Yes ~ No 🗌 Was an attempt made to cool the samples? Yes NA ~ No 🗌 NA All samples received at a temp. of > 0° C to 6.0° C? Yes Response when temperature is outside of range: Sample Temp. taken and recorded upon receipt? Yes ~ No 🗀 4 1 ° To ✓ Water - Were bubbles absent in VOC vials? Yes No Vials No \square **V** Water - Was there Chlorine Present? No \square **V** Water - pH acceptable upon receipt? Yes No Water Yes 🗸 No 🗌 Are Samples considered acceptable? Yes 🗸 No 🗌 Custody Seals present? Air Bill 🗹 Sticker Not Present Airbill or Sticker? Airbill No: 632146890399 Case Number: SDG: SAS: Any No response should be detailed in the comments section below, if applicable. ☐ No ✓ NA Client Contacted? Yes Person Contacted: Contact Mode: Phone: Fax: Email: In Person: Client Instructions: Date Contacted: Contacted By: Regarding: Comments:

SAMPLES RECEIVED AT SCHENECTADY LAB OUT OF TEMPERATURE RANGE

CorrectiveAction:





 $\frac{\text{WorkOrder:}}{1501\text{H}35}$

Certifications

STATE	CERTIFICATION#
NEW YORK	10478
NEWJERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS ETTS	MNY026
NEW HAMPS HIRE	2987
RHODE IS LAND	LAO00340
PENNS YLVANIA	68-00350

Page 6 of 6

PACE- LI

CHAIN OF CUSTODY RECORD	SUSTOD	Y RE	CORD		PAGE 10F 1		<u> </u>	ISPOSAL REQU	JIREMENTS: (T	DISPOSAL REQUIREMENTS: (To be filled in by Client)
	(O) CO!!		1 000	()(KETUKN TO CLIENT	
race Allany	במון המון		(U)	<u>ن</u> ا					DISPOSAL BY RECEIVING LAB	IVING LAB
2190 Technology Drive, Schenectady, NY 12308	ive, Scher	ectad	y, NY 12	308	LRF # 15010580			¥ ()	ARCHIVAL BY RECEIVING LAB	IVING LAB
Telephone (518) 346	3-4592	Fax (5	18) 381-	6055	(LAB U	(LAB USE ONLY)	¥ (Iditional charges incur	Additional charges incurred for disposal (if hazardous) or archival.	ardous) or archival.
www.pacelabs.com			BOO ICCT#/BBO ICCT NAME:	LECT MARE:		-	Ö	Call for details.		
CLIENT (REPORTS TO BE SENT TO):				DECT NAME:			ENIE	R ANALYSIS ANI	ENTER ANALYSIS AND METHOD NUMBER REQUESTED	_
PACE			150105 JOHN JOHN JOHN JOHN JOHN JOHN JOHN JOHN	VICTATELADO	.000	PRESERV	PRESERVATIVE CODE:			PRESERVATIVE KEY
CHO STATE STATE				rainiej aur	MESS:		BOI ILE I YPE:			0 - ICE
Kelly.Miller@PACELABS.COM	MO		×			s	BOT ILE SIZE:			1 - HCL 2 - HNO3
			DECNIDED THEN ADDING TIME.	IT CIKITODY N	, Line of the control	IEB:	\	<u>_</u>	\ \	/ 3-H2SO4
SAMPLED BY: (Please Print)		,	KEGUIKED 1 OF	III AROGIND III	ME: 2/9/2015		s,			4 - NaOH 5 - Zn. Acetate
SAMPLING FIRM:		_					ebioid.) jepioliti	\ \	HO9W - 9
Samples where received committed out of temp. lange.	ange .		NAME OF COURIER (IF USED):	RIER (IF USED)		R OF	IBH AJOT	ged a lot		7 - NaHSO4 8 - Other (Na2SO3)
ELECTRONIC RESULTS	NICOLE JOHNSON@PACELABS COI	HNSON	1@PACE	ABS CO	LAB	381	_		\ \	
				GRAB/	SAI	WUN	_	\ \ '	<u></u>	
SAMPLE ID	DATE	TIME	MATRIX	COMP	(LAB USE ONLY)	_	/	/ /	/ /	/ REMARKS:
D-09	1/29/15	9:45	S	COMP	AS02427	2	×			1501H35
AMBIENT OP CHILLED	TEMP		COC TAPE	Z		PROPERLY PRESERVED	ZESERVED: Y	z	OTHER NOTES: /	OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE
3 I FAKING	, z		COC DISCREPANCIÉS		Z	RECVD W// H	RECYD W/W HO! DING TIMES	>		
RELINQUISHED BY	:	RECEIVED BY			RELINGUISHED BY		RECEIVED BY	: -	RELINQUISHED BY	RECEIVED BY
SIGNATURE DO	SIGNATURE	415	Fenex	SIGNATURE	よっのブ	SIGNATURE		SIGNATURE		SIGNATURE
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COMPANY	COMPANY			COMPANY		COMPANY	PACE	COMPANY		COMPANY
DATE/TIME 1/29/15 1500	DATE/TIME			DATE/TIME		DATE/TIME	130/15 1	20 DATE/TIME		DATE/TIME
							**			S:TOGINIMDICOCS

623146896399

2190 Technology Dr. Schenectady, NY 12308 (518) 346-4592 New York Office Pace Analytical

he Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completer < 15010580P1> UPL HANGE-CUSTODY / Analytical Request Document

Pace Project No. Lab I.D. herbicides, pesticides, metals, and mercury. TCLP - 8250, 8270 N/λ N/A Regular PCB's SAMPLE CONDITIONS Š T JTHER N/A N/A ŝ " DRINKING WATER N/X N/A 6.3 Z ₹ REGULATORY AGENCY ... ပ္က 10:01 TIME Asoay P g GROUND WATER 1/29/15 1_ DATE RCRA LOCATION SITE Filtered (Y/N) NPDES ... ACCEPTED BY / AFFILIATION かれ TSU T Requested Ans Jahr the state of the s Methanol OZSZBV Company Name: Barton and Loguidice, DPC HOP 290 Elwood Davis Road, Box 3107 Syracuse NY, 13220 IOI ^EONH Accounts Payable Kelly Miller OS⁷F ace Quote Reference: 00014909 10,50 TIME hopreserved # OF CONTAINERS SAMPLE TEMP A 73/15 ace Project Manager: Invoice Information: DATE TIME 5,45 Pace Profile #: COMPOSITE END/GRAB Section C Attention: Address: DATE COLLECTED RELINQUISHED BY / AFFILIATION 5:45 DATE | TIME COMPOSITE START 1368,001,001 [X] Required Project Information: Copy To: Nathan Shaffer Report To: Andy Barber ALCO G=GRAB C≈COMP MATRIX CODE Project Name: Project Number. Section B Purchase Order No.: SODE nshaffer@bartonandloquidice.com DRINKING WATER WATER WASTE WATER PRODUCT SOLUSOLD Fax: 518-218-1805 Valid Matrix MATRIX Company: Barton and Loguidice DPC ADDITIONAL COMMENTS (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Address: 10 Airline Drive, Suite 200 SAMPLE ID Standard Required Client Information: 518-218-1801 Required Client Information Standard Deliverables Albany, NY 12205 Section D Due Date/TAT: Email To: Phone: ILEM #

File(ALLO020rev.4.29Mar06122.hm2004

Samples Intact

Sealed Cooler

Custody

ခုဘု

Received on

Jemp in °C

Nathan Shaffer

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SIGNATURE of SAMPLER:

Pace Analytical Services, Inc.

Sample Condition Upon Receipt

<15010580P2>	150105602

CLIENT NAME: BAR-ALB PROJECT: ALCO

							11011 VCC	(
COURIER: FedEx - UPS -		Clienty	Pace	Other 🗆						
TRACKING # 1/A			CUSTO	CUSTODY SEAL PRESENT: Yes	ENT: Yes	NoN	INTACT: Yes	No oN	N/Ax	
PACKING MATERIAL: Bubble Wrap	Wrap 🗆	Bubble Bags	□ s8t	None	Other	<u> </u>	E USED: Wet 🗆 🧳	. Blue □	_	
THERMOMETER USED: #164		IR Gun 03xd	#12208	#122087967 🗆		COOLER TEMI	COOLER TEMPERATURE (°C): 6 · 8	ر م		
BIOLOGICAL TISSUE IS FROZEN: Yes	N: Yes	□ oN	N/A			Te	Temp should be above freezing to 6°C	e freezing to 6°	U	
						COMMENTS:				

Chain of Custody Present:	Zyves	S U		1.	
Chain of Custody Filled Out:	X IYes	□No		2.	
Chain of Custody Relinquished:	M Yes	□No		3.	
Sampler Name / Signature on COC:	_ MYes	°N □		4.	
Samples Arrived within Hold Time:	SOVes	oN O		5.	
Short Hold Time Analysis (<72hr):	□yes	N.C.		6.	
Rush Turn Around Time Requested:	□Yes	SKN ₀		7.	
Sufficient Volume:	W Yes	Ů№		8.	
Correct Containers Used:	~ۯYes	ON []		9.	
- Pace Containers Used:	Tod Yes	□No			
Containers Intact:	MYes	□No		10.	
Filtered volume received for Dissolved tests:	□Yes	□No	MNA	11.	
Sample Labels match COC:	X Yes	oN 🗆		12.	
 Includes date/time/ID/Analysis 					
All containers needing preservation have been checked:	□Yes	oN □	MINA	13.	
All containers needing preservation are in		№	MINA		
compliance with EPA recommendation:		,		Initial when	Lot # of added preservative:
- Exceptions that are not checked: VOA				completed: N/A	¥/2
Headspace in VOA Vials (>6mm):	□Yes	oN 🗆	ZYN/A	14.	
Trip Blank Present:	Tyes	°N□	N/A	15.	
Trip Blank Custody Seals Present: Pace Trip Blank Lot #: \mathcal{N}/\mathcal{A}	□Yes	<u>«</u>	AJNIA		
Sample Receipt form filled in: A35 1/29/15	6	Line-Out Log In (In	t (Includes Concludes notify	Line-Out (Includes Copying Shipping Documents and verifying sample pH): Log In (Includes notifying PM of any discrepacies and documenting in LIMS):	nd verifying sample pH): $AJB AA IS$ and documenting in LIMS): $AJB AA IS$

LOGIN_SCUR_FORM_052914_Rev01_01

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

Pace Analytical Services, Inc.



Date Issued: May 01, 2015

Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): April 22, 2015 Lab Report ID: 15040327

Client Service Contact: Chelsea Farmer (518) 346-4592 ext. 3843

Analysis Included:

EPA Method 8260C - TCLP
EPA Method 8270D TCLP - TCLP
PCB Analysis
Herbicides (TCLP) - Sub - Pace-LI
TCLP Pesticides - Sub - Pace-LI
Mercury TCLP- Sub - Pace-LI
ICP Metals (TCLP 6010C) - Sub - Pace-LI

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith Technical Director TNI LABORATORY

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 15040327) consists of 1 soil sample received on 04/22/2015. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

 Lab Sample ID
 Client ID
 Collection Date

 AS07772
 D-10
 04/22/2015 12:30

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 04/22/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see Pace NY-LI lab report for quality assurance details regarding the PCB and TCLP analysis.

Respectfully submitted,

Julian Brigges

Jill Grygas Project Manager

QUALIFIERS

Definitions

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- MDL Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- PQL Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY



New York Office 2190 Technology Dr. Schenectady, NY 12308 (518) 346-4592



-CUSTODY / Analytical Request Document

dy is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

	Section B				Section			e/*									ţ.		•							F	Pa	ige:	1	of	1.
·	Required Pro			.21	Attentio	Information on:		counts	s Pa	yable				٦							RF	-GI	II A	TOF	RY A	GE	NC	/			
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Email To: rmccormick@bartonandloguidice.d	Purchase	*			Pace Quo	ote Reference		0001 0001						-				SITE	_			Г	G					V	<u></u>	ГΝ	
	Order No.: Project Name	e: ALC	00		Pace Pro	ject Manage	er:	Nich	olas	Nich	olas			\dashv				CAT		J									Г отн		
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Section D Valid Matrix Codes Required Client Information Valid Matrix Codes MATRIX CO	DE		ı	COLL	ECTED	,	T	S		, Þ	rese	rvativ	00		Re	ques	ted	7	//	7/	17	7,	17	//	7	77	7	77	77	7	
DRINKING WATER DI WAYER W	L XL VP	SAMPLE TYPE	CON ST	MPOSITE TART	СОМР	OSITE GRAB	SAMPLE TEMP A COLLECTION	# OF CONTAINERS	Jnpreserved	4,504 4NO ₃			Na ₂ S ₂ O ₃	Other	An	: /:/	Muolie Landing				// //							Signinia	Chlomo (Yilly)	/ Pace	Project No Lab I.D
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<1504U3Z1PZ>



ple Condition Upon Receipt

				And the second second	-	CLIENT NAM		c Alb		
		٤			•	PROJECT :	ALCO	<u> </u>		
	nt 🖈	Pace 🗖	Other 🗆		•					
TRACKING # NA		CUSTODY	SEAL PRESE	NT: Yes □	No 'M		T: Yes □	No □		N/A 🚈
PACKING MATERIAL: Bubble Wrap 🗆	Bubble Bags		Vone 🗷	Other 🗆		ICE USED: W		Blue 🗆	No	ne 🗆
THERMOMETER USED: #164 IR Gur	า 03 🗆 🕝	#1220879	967 🗆			MPERATURE		15,9		
BIOLOGICAL TISSUE IS FROZEN: Yes	No □	N/AVS				Temp should	be above	freezing t	o 6°C	
		î.:			COMMENT	S:				
Chain of Custody Present:	Yes	□No		1.				i		
Chain of Custody Filled Out:	Yes	□No		2.			·	· ·		
Chain of Custody Relinquished:	∀ Yes	□No		3.						· · · · · · · · · · · · · · · · · · ·
Sampler Name / Signature on COC:	Yes	□No		4.		· · · · · · · · · · · · · · · · · · ·			····	
Samples Arrived within Hold Time:	Yes	□No		5.						
Short Hold Time Analysis (<72hr):	□Yes	□No		6.					***	·
Rush Turn Around Time Requested:	□Yes	15 No		7.						
Sufficient Volume:	\√(1)Yes	□No		8.						·
Correct Containers Used:	⊠ves	□No		9.						
- Pace Containers Used:	Yes	□No								
Containers Intact:	∀ves	□No 🐷		10.						
Filtered volume received for Dissolved tests:	□Yes	□No	MANA	11.						
Sample Labels match COC:	Yes	□No	•	12.						
- Includes date/time/ID/Analysis										
All containers needing preservation have been	□Yes	□No	⊠N/A	13.						
checked:										
All containers needing preservation are in	□Yes	□No	TXIN/A			***************************************				
compliance with EPA recommendation:				Initial whe	n N A	•	Lot # of	added pres	servative:	;
- Exceptions that are not checked: VOA				completed	1: A30			14/14		
Headspace in VOA Vials (>6mm):	` □Yes	□No)⊠N/A	14.						-
rip Blank Present:	□Yes	□No	ÆN/A	15.						
rip Blank Custody Seals Present:	□Yes	□No	ÆN/A							
Pace Trip Blank Lot #:				<u> </u>					/\	4/10/16
Sample Receipt form filled in: 🔼 🖰 🖰 🌂 🕮	5				ing Document				<u>ALA</u>	4/22/15
					ny discrepaci				ASB	7/22/15
		Labeling (includes Scar	nning Bottle	es and enterir	ng lab ids int	to ph logi	юок):	1, -0	1/00/113

SAMPLE RECEIPT



Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308

Phone: 518.346.4592

SAMPLE RECEIPT REPORT 15040327

CLIENT: BARTON AND LOGUIDICE

Pace Analytical [®]

PROJECT: ALCO LRF: 15040327

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: 7 DAYS RECEIVED DATE: 04/22/2015 13:04

SHIPPED VIA: DROP OFF ^{1,}SAMPLES PRESERVED PER METHOD GUIDANCE: YES SHIPPING ID: R. MCCORMICK-BAR AL ³ SAMPLES REC'D IN HOLDTIME: YES

NUMBER OF COOLERS: 1 DISPOSAL: BY LAB (45 DAYS)
CUSTODY SEAL INTACT: NA COC DISCREPANCY: NO

COOLER STATUS: CHILLED TEMPERATURE(S): 515.4 °C

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-10 (AS07772)	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E6010C-TCLP	ICP Metals (TCLP 6010C) - Sub - Pace-LI	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E7470A-TCLP	Mercury TCLP- Sub - Pace-LI	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E8081	TCLP Pesticides - Sub - Pace-LI	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E8151A-TCLP	Herbicides (TCLP) - Sub - Pace-LI	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E8260C-TCLP	EPA Method 8260C - TCLP	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E8270D-TCLP	EPA Method 8270D TCLP - TCLP	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	EPA 8082A	PCB Analysis	

¹The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.

Reporting Parameters and Lists

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248

Aroclor 1254 Aroclor 1260

Total PCB Amount > RL

This report may not be reproduced except in full, without the written approval of Pace Analytical Services, Inc.

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it as not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

⁶Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

GC - PCB





Analytical Sample Results

Job Number: 15040327

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-10

Lab Sample ID: 15040327-01 (AS07772)

Collection Date: 04/22/2015 12:30

Sample Matrix: SOIL

Received Date: 04/22/2015 13:04

Percent Solid: 77.5 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC21F-2492-2	25 SW-846 8082A (PCB)	04/27/2015 15:14	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1: 30531	EPA 3545A	04/24/2015 10:17	MH	10.4 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1221	11104-28-2	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1232	11141-16-5	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1242	53469-21-9	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1248	12672-29-6	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1254	11097-69-1	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1260	11096-82-5	ND	0.0618	1.00	U	GC21F-2492-25
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC21F-2492-25
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	71.3	47.0	-123		GC21F-2492-25
Decachlorobiphenyl	2051-24-3	65.6	35.0	-153		GC21F-2492-25

¹ Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Lab)



Quality Control Results Method Blank

Job Number: 15040327

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AS07772B)

Lab Sample ID: PBLK-51

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC21F-2492-2	23 SW-846 8082A (PCB)	04/27/2015 14:49	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 30531	EPA 3545A	04/24/2015 10:13	MH	10.3 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC21F-2492-23
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC21F-2492-23
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(a)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
Tetrachloro-meta-xylene	877-09-8	82.7	47.0	-123		GC21F-2492-23
Decachlorobiphenyl	2051-24-3	84.1	35.0	-153		GC21F-2492-23

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 15040327

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AS07772L)

Lab Sample ID: LCS-51

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

		Datah ID	Mathad	Data	A a laa4	In:4 W/4 /W/a1	Einel Mal	Colomo
		Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
	Analysis 1:	GC21F-2492-24	SW-846 8082A (PCB)	04/27/2015 15:02	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
ı	Prep 1:	30531	EPA 3545A	04/24/2015 10:14	MH	10.3 g	25.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	% Rec.	Q' (%)	
Aroclor 1242	53469-21-9	1.21	0.988	81.6	70.0-130	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	1
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Tetrachloro-meta-xylene	877-09-8	79.4	47.0-123	GC21F-2492-24
Decachlorobiphenyl	2051-24-3	81.8	35.0-153	GC21F-2492-24

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Subcontract Analysis



TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

AS07772

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 4/22/2015 12:30:00 PM Received : 4/22/2015 9:40:00 PM

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Sample Information:

Type: Soil

Origin:

Client Sample ID: D-10

Lab No. : 1504H69-001

Collected By:	i ivi						
Analytical Method: SW1311	8270D: <u>Pre</u>	Method: SW	3520C		Prep Date: 4	/30/2015 8:00:00 PM	Analyst: SH
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
1,4-Dichlorobenzene	< 0.0100	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
2,4,5-Trichlorophenol	< 0.0250	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
2,4,6-Trichlorophenol	< 0.0100	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
2,4-Dinitrotoluene	< 0.0100	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
2-Methylphenol	< 0.0100	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
3-Methylphenol/4-Methylphenol	< 0.0100	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Hexachlorobenzene	< 0.0100	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Hexachlorobutadiene	< 0.0100 S	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Hexachloroethane	< 0.0100	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Nitrobenzene	< 0.0100	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Pentachlorophenol	< 0.0250	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Pyridine	< 0.0100	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Surr: 1,2-Dichlorobenzene-d4	60.5	1	%REC	Limit	16-110	05/01/2015 10:34 AM	Container-01 of 02
Surr: 2,4,6-Tribromophenol	100	1	%REC	Limit	10-123	05/01/2015 10:34 AM	Container-01 of 02
Surr: 2-Chlorophenol-d4	65.6	1	%REC	Limit	33-110	05/01/2015 10:34 AM	Container-01 of 02
Surr: 2-Fluorobiphenyl	79.4	1	%REC	Limit	43-116	05/01/2015 10:34 AM	Container-01 of 02
Surr: 2-Fluorophenol	30.2	1	%REC	Limit	21-110	05/01/2015 10:34 AM	Container-01 of 02
Surr: 4-Terphenyl-d14	110	1	%REC	Limit	33-141	05/01/2015 10:34 AM	Container-01 of 02
Surr: Nitrobenzene-d5	84.5	1	%REC	Limit	35-114	05/01/2015 10:34 AM	Container-01 of 02
Surr: Phenol-d5	20.8	1	%REC	Limit	10-110	05/01/2015 10:34 AM	Container-01 of 02
Analytical Method: SW1311	8151A: <u>Pre</u>	Method: SW	1311/8151		Prep Date: 4	/27/2015 12:29:27 PM	Analyst: MJM
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
2,4,5-TP (Silvex)	< 0.0025	1	mg/L			04/29/2015 8:32 AM	Container-01 of 02
2,4-D	< 0.0050	1	mg/L			04/29/2015 8:32 AM	Container-01 of 02
Surr: DCAA	77.8	1	%REC	Limit	36-121	04/29/2015 8:32 AM	Container-01 of 02
Analytical Method: SW1311	7470A: <u>Pre</u>	Method: SW	7470		Prep Date: 4	/28/2015 7:45:00 AM	Analyst: JL
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Mercury	< 0.200	1	ug/L			04/28/2015 1:28 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Rep

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 1 of 14



TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

William A. Kotas Attn To:

Collected By:

Collected Received LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Sample Information:

Type: Soil

∩rigin:

: 4/22/2015 12:30:00 PM		Origin
: 4/22/2015 9:40:00 PM	AS07772	

Client Sample ID: D-10

Lab No. : 1504H69-001

Analytical Method:	SW1311/6010C:	Prep Me	ethod: SW	/3005A		Prep Date: 4/2	8/2015 7:30:00 AM	Analyst: CGZ	
Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:	
Arsenic	< 1.00		1	mg/L			04/29/2015 12:04 AM	Container-01 of 02	
Barium	< 10.0		1	mg/L			04/29/2015 12:04 AM	Container-01 of 02	
Cadmium	< 0.100		1	mg/L			04/29/2015 12:04 AM	Container-01 of 02	
Chromium	< 1.00		1	mg/L			04/29/2015 12:04 AM	Container-01 of 02	
Lead	< 1.00		1	mg/L			04/29/2015 12:04 AM		
Selenium	< 0.100		1	mg/L			04/29/2015 12:04 AM		
Silver	< 1.00		1	mg/L		04/29/2015 12:04 AM		Container-01 of 02	
Analytical Method:	SW1311/8081B:	Prep Me	Method: SW3510C Prep Date: 4/30/2015 3:30:00 PM		Analyst: JS				
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:	
Chlordane	< 0.0040		1	mg/L			04/30/2015 9:29 PM	Container-01 of 02	
Endrin	< 0.0004	0	1	mg/L			04/30/2015 9:29 PM	Container-01 of 02	
gamma-BHC	< 0.0002	0	1	mg/L			04/30/2015 9:29 PM	Container-01 of 02	
Heptachlor	< 0.0002	0	1	mg/L			04/30/2015 9:29 PM	Container-01 of 02	
Heptachlor epoxide	< 0.0002	0	1	mg/L			04/30/2015 9:29 PM	Container-01 of 02	
Methoxychlor	< 0.0020		1	mg/L			04/30/2015 9:29 PM	Container-01 of 02	
Toxaphene	< 0.020		1	mg/L			04/30/2015 9:29 PM	Container-01 of 02	
Surr: Decachlorobiphe	enyl 60.4		1	%REC	Limit	30-150	04/30/2015 9:29 PM	Container-01 of 02	
Surr: Tetrachloro-m-x	/lene 86.8			%REC		30-150	04/30/2015 9:29 PM	Container-01 of 02	

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Date Reported:

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

r = Reporting limit > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound 5/1/2015

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 2 of 14



TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

AS07772

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

> : 4/22/2015 12:30:00 PM : 4/22/2015 9:40:00 PM

Received Collected By:

Collected

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Sample Information:

Type: Soil

Client Sample ID: D-10 Origin:

Lab No.: 1504H69-001

2000104 2 y .							
Analytical Method: S	SW1311/8260C:					Prep Date: 4/23/2015 4:05:28 PM	Analyst: MF
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>		Analyzed:	Container:
1,1-Dichloroethene	< 0.010		1	mg/L		04/24/2015 2:29 PM	Container-01 of 01
1,2-Dichloroethane	< 0.010		1	mg/L		04/24/2015 2:29 PM	Container-01 of 01
1,4-Dichlorobenzene	< 0.010		1	mg/L		04/24/2015 2:29 PM	Container-01 of 01
2-Butanone	< 0.010		1	mg/L		04/24/2015 2:29 PM	Container-01 of 01
Benzene	< 0.010		1	mg/L		04/24/2015 2:29 PM	Container-01 of 01
Carbon tetrachloride	< 0.010		1	mg/L		04/24/2015 2:29 PM	Container-01 of 01
Chlorobenzene	< 0.010		1	mg/L		04/24/2015 2:29 PM	Container-01 of 01
Chloroform	< 0.010		1	mg/L		04/24/2015 2:29 PM	Container-01 of 01
Tetrachloroethene	< 0.010		1	mg/L		04/24/2015 2:29 PM	Container-01 of 01
Trichloroethene	< 0.010		1	mg/L		04/24/2015 2:29 PM	Container-01 of 01
Vinyl chloride	< 0.010	С	1	mg/L		04/24/2015 2:29 PM	Container-01 of 01
Surr: 1,2-dichloroethane	e-d4 115		1	%REC	Limit 53-	-183 04/24/2015 2:29 PM	Container-01 of 01
Surr: 4-Bromofluoroben	zene 117		1	%REC	Limit 52-	-124 04/24/2015 2:29 PM	Container-01 of 01
Surr: Toluene-d8	111		1	%REC	Limit 60-	-135 04/24/2015 2:29 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Date Reported:

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

r = Reporting limit > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound 5/1/2015

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

HERBICIDES, TCLP Leached Analysis:

WorkOrder: 1504H69

Method: 1311_H Lab Batch ID:

49550

Method Blank

73828

SeqNo 1606264

Units: mg/L

Analysis Date: 4/24/2015 10:41:04 AM

Analyst: MJM

	Analyte
Surr. D	CAA

RunID:

Result Rep Limit Rep Qual

0

0.073

Laboratory Control Sample (LCS/LFB)

RunID:

SeqNo 1606269

Units: mg/L

Analysis Date: 4/24/2015 11:28:28 AM

Analyst: MJM

	Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	 LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
I	Surr: DCAA	0.1000	0.058	58.2					36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504E43-002B

SeqNo 1607262 RunID: 73828 Units: mg/L Analysis Date: 4/24/2015 2:38:06 PM Analyst: MJM

		Sample Result		MS Result	MS % Rec	-	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	High Limit	Qual
1	Surr: DCAA		0.1000	0.058	58.5	36	121							

Method Blank

RunID: 74001 SeqNo 1609798 Units: mg/L Analysis Date: 4/28/2015 1:28:32 PM Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr. DCAA	0.072	0	

Qualifiers: Value exceeds Maximum Contaminant Level

> Dilution was required. D

Holding times for preparation or analysis exceeded Η

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Tentatively identified compounds N
- O RSD is greater than RSDlimit

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575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: HERBICIDES, TCLP Leached

WorkOrder:

1504H69

Method: 1311_H

Analysis Date: 4/29/2015 6:57:45 AM

Lab Batch ID:

49628

Method Blank

RunID: 74073

SeqNo 1611477

Units: mg/L

Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr: DCAA	0.073	0	

Qualifiers: * Value exceeds Maximum Contaminant Level

D Dilution was required.

H Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

N Tentatively identified compounds

O RSD is greater than RSDlimit

5/1/2015 4:14:09 PM



575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: HERBICIDES, TCLP Leached

WorkOrder: 1504H69

Method: 1311_H

Lab Batch ID: 49628

Method Blank

RunID: 74073 SeqNo 1611478 Units: mg/L Analysis Date: 4/29/2015 7:13:30 AM Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr: DCAA	0.085	0	

Laboratory Control Sample (LCS/LFB)

RunID: 74001 SeqNo 1609800 Units: mg/L Analysis Date: 4/28/2015 2:00:07 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	_	 LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0.02000	0.019	93.9					47	152	
2,4,5-TP (Silvex)	0.01000	0.0089	89.0					44	157	Ī
Surr: DCAA	0.1000	0.071	71.5	1				36	121	i

Laboratory Control Sample (LCS/LFB)

RunID: 74073 SeqNo 1611481 Units: mg/L
Analysis Date: 4/29/2015 8:00:52 AM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	 LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0.02000	0.019	97.2					47	152	
2,4,5-TP (Silvex)	0.01000	0.0094	94.2					44	157	
Surr: DCAA	0.1000	0.076	76.1	1				36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504I75-001B

RunID: 74073 SeqNo 1611484 Units: mg/L Analysis Date: 4/29/2015 8:48:09 AM Analyst: MJM

Analyte	Sample Result	_		MS % Rec			MSD Spike Added	Result	MSD % Rec	RPD	RPD Limit	High Limit	Qual
2,4-D	0	0.02000	0.019	97.2	39	111							
2,4,5-TP (Silvex)	0	0.01000	0.010	99.7	48	113							
Surr: DCAA		0.1000	0.081	81.5	36	121							

Method Blank

RunID: 74024 SeqNo 1610386 Units: mg/L Analysis Date: 4/28/2015 2:17:12 PM Analyst: HT

Analyte	Result	Rep Limit	Rep Qual
Arsenic	< 1.00	1.00	

- Qualifiers: * Value exceeds Maximum Contaminant Level
 - D Dilution was required.
 - H Holding times for preparation or analysis exceeded
 - M Manual Integration used to determine area response
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit

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575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

ICP METALS, TCLP Leached Analysis:

WorkOrder: 1504H69

Method: 1311_M Lab Batch ID:

49641

Method Blank

RunID: 74024 SeqNo 1610386

Units: mg/L

Analysis Date: 4/28/2015 2:17:12 PM

Analyst: HT

Analyte	Result	Rep Limit	Rep Qual
Barium	< 10.0	10.0	
Cadmium	< 0.100	0.100	
Chromium	< 1.00	1.00	
Lead	< 1.00	1.00	
Selenium	< 0.100	0.100	
Silver	< 1.00	1.00	7

Laboratory Control Sample (LCS/LFB)

RunID: 74024 SeqNo 1610388 Units: mg/L Analysis Date: 4/28/2015 2:29:38 PM Analyst: HT

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Arsenic	0.5000	< 1.00	99.6					80	120	
Barium	2.500	< 10.0	96.9					80	120	
Cadmium	2.500	2.43	97.1					80	120	
Chromium	2.500	2.30	92.1					80	120	
Lead	0.5000	< 1.00	99.7					80	120	
Selenium	0.5000	0.514	103					80	120	
Silver	1.000	< 1.00	98.8					80	120	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504I97-003A

SeqNo 1610898 RunID: 74053 Units: mg/L Analysis Date: 4/29/2015 12:48:06 AM Analyst: CGZ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Rec	Low Limit	High Limit	MSD Spike Added
Arsenic	0	1.000	1.20	120	75	125	
Barium	2.340	1.000	< 10.0	111	75	125	
Cadmium	.003400	1.000	0.987	98.4	75	125	
Chromium	.002200	1.000	1.01	101	75	125	
Lead	.004380	1.000	1.08	107	75	125	
Selenium	0002694	1.000	1.21	121	75	125	
Silver	0006894	1.000	1.11	111	75	125	

Method Blank

RunID: 74005 SeqNo 1609966 Units: ug/L Analysis Date: 4/28/2015 12:16:19 PM Analyst: JL

	Analyte	Result	Rep Limit	Rep Qual
--	---------	--------	-----------	----------

Value exceeds Maximum Contaminant Level Qualifiers: Dilution was required.

D

Η Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range

MSD

Result

MSD %

Rec

RPD

RPD

Limit

Low

Limit

High

Limit

Qual

15040327 - Page 25 of 36

- J Analyte detected below quantitation limits
- Tentatively identified compounds N
- O RSD is greater than RSDlimit

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575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: MERCURY, TCLP Leached WorkOrder: 1504H69

Method: 1311_HG Lab Batch ID: 49642

Method Blank

RunID: 74005 SeqNo 1609966 Units: ug/L Analysis Date: 4/28/2015 12:16:19 PM Analyst: JL

Analyte	Result	Rep Limit	Rep Qual
Mercury	< 0.200	0.200	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504I75-001B

RunID: 74005 SeqNo 1609970 Units: ug/L Analysis Date: 4/28/2015 1:11:42 PM Analyst: JL

•	Sample Result		MS Result	MS % Rec	-	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qual
Mercury	0.01060	1.000	0.993	98.2	80	120								

Method Blank

RunID: 74239 SeqNo 1614688 Units: mg/L Analysis Date: 4/30/2015 7:16:49 PM Analyst: JS

Analyte	Result	Rep Limit	Rep Qual
gamma-BHC	< 0.00020	0.00020	
Heptachlor	< 0.00020	0.00020	
Heptachlor epoxide	< 0.00020	0.00020	
Endrin	< 0.00040	0.00040	
Methoxychlor	< 0.0020	0.0020	
Toxaphene	< 0.020	0.020	
Chlordane	< 0.0040	0.0040	
Surr: Tetrachloro-m-xylene	0.00035	0	
Surr: Decachlorobiphenyl	0.00033	0	

Laboratory Control Sample (LCS/LFB)

RunID: 74239 SeqNo 1614689 Units: mg/L Analysis Date: 4/30/2015 7:31:31 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	0.000800	0.00068	85.4						27	146	
	0			_							
Heptachlor	0.000800	0.00061	76.0						10	148	
	0										
Heptachlor epoxide	0.000800	0.00067	83.2						28	144	
	0										
Endrin	0.000800	0.00069	86.7						22	152	
	0										
Methoxychlor	0.000800	< 0.0020	88.4						19	146	
	0										

- Qualifiers: * Value exceeds Maximum Contaminant Level
 - D Dilution was required.
 - H Holding times for preparation or analysis exceeded
 - M Manual Integration used to determine area response
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit

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575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

1504H69

WorkOrder:

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached

Method: 1311_P Lab Batch ID: 49694

Laboratory Control Sample (LCS/LFB)

RunID: 74239 SeqNo 1614689 Units: mg/L Analysis Date: 4/30/2015 7:31:31 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	_	 LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: Tetrachloro-m-xylene	0.000400	0.00032	80.3					30	150	
	0									
Surr: Decachlorobiphenyl	0.000400	0.00031	76.4					30	150	
	0			•						

Laboratory Control Sample (LCS/LFB)

RunID: 74239 SeqNo 1614690 Units: mg/L Analysis Date: 4/30/2015 7:46:17 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Toxaphene	0.04000	0.036	88.9					46	168	Е
Surr: Tetrachloro-m-xylene	0.000400	0.00033	82.5					30	150	
	0			•						
Surr: Decachlorobiphenyl	0.000400	0.00033	82.3					30	150	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504j54-001a

RunID: 74239 SeqNo 1614694 Units: mg/L Analysis Date: 4/30/2015 8:45:05 PM Analyst: JS

Analyte	Sample Result	MS Spike Added		MS % Rec	-	High Limit	MSD Spike Added	Result	MSD % Rec	RPD	RPD Limit	-	High Limit	Qual
Toxaphene	0	0.04000	0.033	81.8	50	150								
Surr: Tetrachloro-m-xylene		0004000	0.00031	77.4	30	150								
Surr: Decachlorobiphenyl		0004000	0.00034	85.8	30	150								

Method Blank

RunID: 74250 SeqNo 1615043 Units: mg/L Analysis Date: 5/1/2015 9:34:00 AM Analysis: SH

Analyte	Result	Rep Limit	Rep Qual
Pyridine	< 0.0100	0.0100	
1,4-Dichlorobenzene	< 0.0100	0.0100	
2-Methylphenol	< 0.0100	0.0100	
3-Methylphenol/4-Methylphenol	< 0.0100	0.0100	
Hexachloroethane	< 0.0100	0.0100	
Nitrobenzene	< 0.0100	0.0100	
Hexachlorobutadiene	< 0.0100	0.0100	

- Qualifiers: * Value exceeds Maximum Contaminant Level
 - D Dilution was required.
 - H Holding times for preparation or analysis exceeded
 - M Manual Integration used to determine area response
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit

5/1/2015 4:14:10 PM

Pace Analytical Services, Inc. May 01, 2015 15040327 - Page 27 of 36



575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: SEMIVOLATILES, TCLP Leac

WorkOrder: 1504H69

Method: 1311_B

RunID:

Lab Batch ID: 49710

Method Blank

74250 SeqNo 1615043

Units: mg/L

Analysis Date: 5/1/2015 9:34:00 AM

Analyst: SH

Avaluta	Danult	Dan Lineit	Dan Ovel
Analyte	Result	Rep Limit	Rep Qual
2,4,6-Trichlorophenol	< 0.0100	0.0100	
2,4,5-Trichlorophenol	< 0.0250	0.0250	
2,4-Dinitrotoluene	< 0.0100	0.0100	
Hexachlorobenzene	< 0.0100	0.0100	
Pentachlorophenol	< 0.0250	0.0250	
Surr: 2-Fluorophenol	0.0182	0	
Surr: Nitrobenzene-d5	0.0351	0	
Surr: Phenol-d5	0.0124	0	
Surr: 2,4,6-Tribromophenol	0.0685	0	
Surr: 2-Fluorobiphenyl	0.0331	0	
Surr: 4-Terphenyl-d14	0.0569	0	
Surr: 2-Chlorophenol-d4	0.0404	0	
Surr: 1,2-Dichlorobenzene-d4	0.0271	0	

Laboratory Control Sample (LCS/LFB)

RunID: 74250 SeqNo 1615044 Units: mg/L
Analysis Date: 5/1/2015 10:04:00 AM Analyst: SH

Analyte	LCS Spike	LCS Result	LCS % Recovery	LCSD Spike	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
	Added		Recovery	Added	Result	Recovery		Liiiit	Lillin	Lillit	
Pyridine	0.05000	0.0147	29.4						12	81.6	-
1,4-Dichlorobenzene	0.05000	0.0271	54.2	1					38	116	
2-Methylphenol	0.05000	0.0287	57.4	1					27	141	
3-Methylphenol/4-Methylphenol	0.1000	0.0500	50.0	1					15	141	
Hexachloroethane	0.05000	0.0245	49.0	1					39	111	
Nitrobenzene	0.05000	0.0404	80.8	1					39	129	
Hexachlorobutadiene	0.05000	0.0230	46.0	1					49	115	S
2,4,6-Trichlorophenol	0.05000	0.0437	87.4	1					37	133	
2,4,5-Trichlorophenol	0.05000	0.0447	89.4]					16	148	
2,4-Dinitrotoluene	0.05000	0.0478	95.5	1					46	118	
Hexachlorobenzene	0.05000	0.0480	96.1]					55	127	
Pentachlorophenol	0.05000	0.0503	101]					13	123	
Surr: 2-Fluorophenol	0.07500	0.0212	28.2	1					21	110	
Surr: Nitrobenzene-d5	0.05000	0.0398	79.5	1					35	114	
Surr: Phenol-d5	0.07500	0.0151	20.1	1					10	110	
Surr: 2,4,6-Tribromophenol	0.07500	0.0736	98.1]					10	123	
Surr: 2-Fluorobiphenyl	0.05000	0.0355	71.0						43	116	
Surr: 4-Terphenyl-d14	0.05000	0.0575	115						33	141	
Surr: 2-Chlorophenol-d4	0.07500	0.0474	63.2						33	110	
Surr: 1,2-Dichlorobenzene-d4	0.05000	0.0273	54.7						16	110	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504K97-001A

RunID: 74250 SeqNo 1615047 Units: mg/L

- Qualifiers: * Value exceeds Maximum Contaminant Level
 - D Dilution was required.
 - H Holding times for preparation or analysis exceeded
 - M Manual Integration used to determine area response
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit

5/1/2015 4:14:10 PM

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575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Qual

Quality Control Report

PACE ANALYTICAL

10478

Analysis: SEMIVOLATILES, TCLP Leac

WorkOrder: 1504H69

Low

High

Limit Limit

MSD %

Rec

RPD

RPD

Limit

Method: 1311_B Lab Batch ID: 49710

Laboratory Control Sample (LCS/LFB)

RunID: 74250 SeqNo 1615044 Units: mg/L

Analysis Date: 5/1/2015 11:34:00 AM Analyst: SH

Analyte	Sample Result	MS Spike Added	MS Result	MS % Rec	Low Limit	High Limit	MSD Spike Added	MSD Result
Pyridine	0	0.05000	0.0155	31.0	12	81.6		
1,4-Dichlorobenzene	0	0.05000	0.0235	47.0	38	116		
2-Methylphenol	0	0.05000	0.0263	52.6	27	141		
3-Methylphenol/4-Methylphenol	0	0.1000	0.0463	46.3	15	141		
Hexachloroethane	0	0.05000	0.0222	44.4	39	111		
Nitrobenzene	0	0.05000	0.0392	78.3	39	129		
Hexachlorobutadiene	0	0.05000	0.0211	42.3	49	115		
2,4,6-Trichlorophenol	0	0.05000	0.0428	85.6	37	133		
2,4,5-Trichlorophenol	0	0.05000	0.0443	88.5	16	148		
2,4-Dinitrotoluene	0	0.05000	0.0467	93.4	46	118		
Hexachlorobenzene	0	0.05000	0.0447	89.5	55	127		
Pentachlorophenol	0	0.05000	0.0522	104	13	123		
Surr: 2-Fluorophenol		0.07500	0.0214	28.6	21	110		
Surr: Nitrobenzene-d5		0.05000	0.0393	78.6	35	114		
Surr: Phenol-d5		0.07500	0.0149	19.9	10	110		
Surr: 2,4,6-Tribromophenol		0.07500	0.0719	95.8	10	123		
Surr: 2-Fluorobiphenyl		0.05000	0.0338	67.6	43	116		
Surr: 4-Terphenyl-d14		0.05000	0.0586	117	33	141		
Surr: 2-Chlorophenol-d4		0.07500	0.0466	62.1	33	110		
Surr: 1,2-Dichlorobenzene-d4		0.05000	0.0259	51.8	16	110		

Method Blank

RunID: 73858 SeqNo 1607209 Units: mg/L Analysis Date: 4/24/2015 10:02:00 AM Analyst: MF

Analyte	Result	Rep Limit	Rep Qual
Vinyl chloride	< 0.010	0.010	
1,1-Dichloroethene	< 0.010	0.010	
2-Butanone	< 0.010	0.010	
Chloroform	< 0.010	0.010	
1,2-Dichloroethane	< 0.010	0.010	
Carbon tetrachloride	< 0.010	0.010	
Benzene	< 0.010	0.010	
Trichloroethene	< 0.010	0.010	

- Qualifiers:
- * Value exceeds Maximum Contaminant Level
- D Dilution was required.
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit

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Pace Analytical Services, Inc. May 01, 2015 15040327 - Page 29 of 36



575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: VOLATILES, TCLP Leached

WorkOrder: 1504H69

Method: 1311_V

Lab Batch ID:

R73858

Method Blank

73858

RunID:

SeqNo 1607209

Units: mg/L

Analysis Date: 4/24/2015 10:02:00 AM

Analyst: MF

Analyte	Result	Rep Limit	Rep Qual
Tetrachloroethene	< 0.010	0.010	
Chlorobenzene	< 0.010	0.010	
1,4-Dichlorobenzene	< 0.010	0.010	
Surr: 1,2-dichloroethane-d4	0.053	0	
Surr: 4-Bromofluorobenzene	0.057	0	
Surr: Toluene-d8	0.055	0	*

Laboratory Control Sample (LCS/LFB)

RunID: 73858 SeqNo 1607210 Units: mg/L Analysis Date: 4/24/2015 10:22:00 AM Analyst: MF

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Vinyl chloride	0.05000	0.035	70.0						14	152	ų.
1,1-Dichloroethene	0.05000	0.051	103						58	112	
2-Butanone	0.05000	0.055	110						14	166	
Chloroform	0.05000	0.052	105						75	119	
1,2-Dichloroethane	0.05000	0.054	107						52	133	
Carbon tetrachloride	0.05000	0.046	91.7						64	126	
Benzene	0.05000	0.056	111						50	127	
Trichloroethene	0.05000	0.049	97.3						57	115	
Tetrachloroethene	0.05000	0.043	86.9						59	133	
Chlorobenzene	0.05000	0.047	94.5						72	124	
1,4-Dichlorobenzene	0.05000	0.042	84.9						60	140	
Surr: 1,2-dichloroethane-d4	0.05000	0.056	112						53	183	
Surr: 4-Bromofluorobenzene	0.05000	0.058	115						52	124	
Surr: Toluene-d8	0.05000	0.056	112						60	135	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504C49-001A

RunID: 73858 SeqNo 1607225 Units: mg/L Analysis Date: 4/24/2015 3:29:00 PM Analyst: MF

Analyte	Sample Result		MS Result	MS % Rec		High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	High Limit	Qual
Vinyl chloride	0	0.05000	0.11	218	14	152							
1,1-Dichloroethene	0	0.05000	0.053	106	58	112							
2-Butanone	.001080	0.05000	0.047	90.9	14	166							
Chloroform	0	0.05000	0.052	104	75	119							
1,2-Dichloroethane	0	0.05000	0.050	99.7	52	133							
Carbon tetrachloride	0	0.05000	0.037	73.4	64	126							
Benzene	0	0.05000	0.053	107	50	127							

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Dilution was required.
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit

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575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

R73858

Quality Control Report

PACE ANALYTICAL

10478

Analysis: VOLATILES, TCLP Leached

WorkOrder: 1504H69

Lab Batch ID:

Method: 1311_V

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504C49-001A

RunID: 73858 SeqNo 1607225 Units: mg/L
Analysis Date: 4/24/2015 3:29:00 PM Analyst: MF

Analyte	Sample Result	_	MS Result	MS % Rec		High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	High Limit	Qual
Trichloroethene	0	0.05000	0.042	84.6	57	115							
Tetrachloroethene	0	0.05000	0.029	57.1	59	133							
Chlorobenzene	0	0.05000	0.033	67.0	72	124							
1,4-Dichlorobenzene	0	0.05000	0.026	51.7	60	140							
Surr: 1,2-dichloroethane-d4		0.05000	0.054	109	53	183							
Surr: 4-Bromofluorobenzene		0.05000	0.059	117	52	124							
Surr: Toluene-d8		0.05000	0.055	111	60	135							

Qualifiers: * Value exceeds Maximum Contaminant Level

D Dilution was required.

H Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

N Tentatively identified compounds

O RSD is greater than RSDlimit

5/1/2015 4:14:10 PM



PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436

Sample Receipt Checklist

Website: www.pacelabs.com

Client Name: PACE-NY			Date and Tin	ne Received:	4/22/2015 9:40:00 PM
Work Order Number: 1504H69 RcptNo: 1			Received by:	Ajay Singh	
Completed by:		Revie	ewed by:	empn .	ar
Completed Date: <u>5/1/2015 9:08:02 AM</u>		Revie	wed Date:	<u>4/30/201</u>	<u>5 9:06:41 PM</u>
Carrier name: PACE Pickup					
Chain of custody present? Chain of custody signed when relinquished and received? Chain of custody agrees with sample labels? Are matrices correctly identified on Chain of custody? Is it clear what analyses were requested?	Yes Yes Yes Yes	\ \ \ \	No		
Custody seals intact on sample bottles?	Yes		No 🗌	Not Present	✓
Samples in proper container/bottle? Were correct preservatives used and noted? Preservative added to bottles:	Yes Yes	✓	No 🗌 No 🗆	NA	
Sample Condition? Sufficient sample volume for indicated test? Were container labels complete (ID, Pres, Date)? All samples received within holding time?	Intact Yes Yes Yes	>	Broken	Leaking	
Was an attempt made to cool the samples?	Yes	✓	No 🗌	NA	
All samples received at a temp. of > 0° C to 6.0° C?	Yes	✓	No 🗀	NA	
Response when temperature is outside of range:	V	✓	NI-	-	0.0
Sample Temp. taken and recorded upon receipt? Water - Were bubbles absent in VOC vials?	Yes Yes		No □ No □	To No Vials	3 °
Water - Was there Chlorine Present?	Yes		No \square	NA NA	<u>~</u>
Water - pH acceptable upon receipt?	Yes		No \square	No Water	✓
Are Samples considered acceptable?	Yes	✓	No \square		
Custody Seals present?	Yes	✓	No 🗌		
Airbill or Sticker?	Air Bill		Sticker	Not Present	✓
Airbill No:					
Case Number: SDG:		S	AS:		
Any No response should be detailed in the comments section be	pelow, if applicat	ole.			
Client Contacted?	Person Conta	acted:			
Contact Mode: Phone: Fax:	Email:		☐ In Person:		
Client Instructions:					
Date Contacted: Conta	acted By:				
Regarding: Comments:	-				
CorrectiveAction:					



WorkOrder: 1504H69

Certifications

STATE	CERTIFICATION#
NEW YORK	10478
NEWJERSEY	NY1 58
CONNECTICUT	PH-0435
MARYLAND	208
MAS S AC HUS ETTS	MNY026
NEW HAMPS HIRE	2987
RHODE IS LAND	LAO00340
PENNS YLVANIA	68-00350

Page 14 of 14

8 - Other (Na2SO3) OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DI PRESERVATIVE KEY 5 - Zn. Acetate 7 - NaHSO4 3-H2SO4 6 - MeOH 4 - NaOH 2 - HNO3 1-HCL DISPOSAL REQUIREMENTS: (To be filled in by Client) ENTER ANALYSIS AND METHOD NUMBER REQUESTED Additional charges incurred for disposal (if hazardous) or archival. RINTED NAME ARCHIVAL BY RECEIVING LAB DISPOSAL BY RECEIVING LAB DATE/TIME COMPANY RETURN TO CLIENT E6010C-TCLP RELINGUISHED BY AJOA-POLA × RINTED NAME AJOT.ATOLA IGNATURE ATE/TIME × Call for details. E82700-TCLP > × 4701-²⁰⁹⁵⁸³ PRESERVATIVE CODE: RECVD W/I HOLDING TIMES: × DATE/TIME OF 1/22/15 RECEIVED BY PROPERLY PRESERVED: BOTTLE TYPE: BOTTLE SIZE: × (LAB USE ONLY) NUMBER OF CONTAINERS 5/1/2015 (LAB USE ONLY) LRF # 15040327 SAMPLE ID PAGE 10F RELINQUISHED BY AS07772 OCATION (CITY/STATE) ADDRESS REQUIRED TURN AROUND TIME NAME OF COURIER (IF USED COMP PROJECT#/PROJECT NAME: COMP GRAB/ 2190 Technology Drive, Schenectady, NY 12308 Telephone (518) 346-4592 Fax (518) 381-6055 Pace Analytical Services, Inc. COC DISCREPANCIES: Chelsea.Farmer@pacelabs.com Nicole.Johnson@pacelabs.cd CHAIN OF CUSTODY RECORD 15040327 MATRIX COC TAPE: S -22-15 nep Calor が言るなのなの È 12:30 HIME TIME TEMP: 3.00C 4/22/15 DATE CLIENT (REPORTS TO BE SENT TO): www.pacelabs.com RECEIVED BROKEN OR LEAKING: ELECTRONIC RESULTS SAMPLE ID ELECTRONIC RESULTS)26/2/ (Salay) Chelsea Farmer 0 60 Alm Te AMBIENT OR CHILLED: ROJECT MANAGER roject: ALCO dotes: D-10

Vace-LI

4122

Losewany Nelsomula

PRINT Name of SAMPLER: SIGNATURE of SAMPLER:

90|

<15040327P1>

-CUSTODY / Analytical Request Document dy is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Schenectady, NY 12308 2190 Technology Dr. (518) 346-4592 New York Office

Pace Project No. herbicides, pesticides, TCLP - 8260, 8270. metals, and mercury. N/A N/A samples Intact SAMPLE CONDITIONS Regular PCB's N S Sealed Coole OTHER **g**hy N/A N/A N// Custody 5 GROUND WATER F DRINKING WATER N/A N/A Received on **₹** L N L L J° ni qmeT REGULATORY AGENCY TOTHER. ပ္တ 13:09 TIME δ 된 L <u>__</u> DATE F RCRA LOCATION SITE ACCEPTED BY / AFFILIATION ☐ NPDES Filtered (Y/N) T UST Requested š Jetho 19²2²03 Company Name: Barton and Loguidice, DPC Preservatives HOEN 290 Elwood Davis Road, Box 3107 Syracuse NY, 13220 Nicholas Nicholas IOH ^EONF Accounts Payable °OS^zI 00014909 TIME hpreserved SAMPLER NAME AND SIGNATURE # OF CONTAINERS 4 COLLECTION Pace Quote Reference: Pace Project Manager: 4727 DATE Invoice Information TIME Pace Profile #: COMPOSITE END/GRAB Section C Attention: Address: COLLECTED DATE RELINQUISHED BY / AFFILIATION 7.30 TIME COMPOSITE START 27 DATE 2/2 1368.001.001 Required Project Information: Copy To: Nathan Shaffer Report To: Andy Barber ALCO SAMPLE TYPE ن Rosemary McComick ۵ MATRIX CODE Project Name: Project Number: Section B Email To: rmccormick@bartonandloguidice.dPurchase Order No.: DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID 518-218-1801 Fax: 518-218-1805 Valid Matrix I MATRIX Company: Barton and Loguidice DPC ADDITIONAL COMMENTS (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Address: 10 Airline Drive, Suite 200 SAMPLE ID Standard Required Client Information: 0 Required Client Information Standard Deliverables Albany, NY 12205 Section D Due Date/TAT: Section A Phone: # WBTI

Pace Analytical

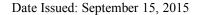
ple Condition Upon Receipt

CLIENT NAME: ROCK ALL

No 'A SE INTACT: Yes ☐ No ☐ N/A SE COOLER TEMPERATURE (°C): S C Temp should be above freezing to 6°C COMMENTS:																	en $A \cup B$ Lot # of added preservative:				Line-Out (Includes Copying Shipping Documents and verifying sample pH): $\frac{A3b}{100} = \frac{430}{100} = \frac{1}{100} = $
NT: Yes 🗆 Other 🗅	1.	2.	3.	4.	5.	6.	7.	89	6		65	11.	12.	13.			Initial when completed:	14.	15.		ppying Ship ying PM of anning Bot
Other□ rody SEAL PRESENT: Yes □ None A 087967 □										ı		ALMAN.		SIN X	Š	AWA W	b	(XÍN/A	AZIN/A	KZINIA	t (Includes Concludes notif
ice □ 5UST #122 #122 N/A	oN.	°N□	CN.	<u> </u>	SE	S S	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>			: IS	S S	SN C	Č	2	2	<u>}</u>	°N 🗆	°N □	%	Line-Out Log In (I
Bubble Bags 1	7. N			SI A	id.				Z A Ves	S A A	S A	١.	Z des	- 1	∏Yes	Š	S I	\ \ \ \ \	O'Yes	□Yes	s गरे
COURIER: FedEX DIPS DIPS DIENTOR TRACKING # Bubble Wrap DIR Gun 03 DACKING MATERIAL: Bubble Wrap DIR Gun 03 DACKING MATER USED: #16404 NO DIENTOR DIE				ed:	Chain of Custory Signature on COC:	Sampler Name Arrived Within Hold Time			Rush Turing:		Correct Containers Used:	pace Contest	Containers merceived for Dissolved tests. Filtered volume received for Dissolved tests.	Sample Labels match Co. Sample Labels match time/ID/Analysis	Includes controlled in have been	All containers in checked:	All containers needing preservation are in particular to a second and a second	Company that are not checked: VOA		.,	Trip Blank Custouy 322 Trip Blank Lot #: Pace Trip Blank Lot #: Sample Receipt form filled in: AJD 4/32

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ace Analytical





Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): September 09, 2015

Lab Report ID: 15090224

Client Service Contact: Chelsea Farmer (518) 346-4592 ext. 3843

Analysis Included:

PCB Analysis
TCLP VOCs by GCMS - SUB Phoenix
TCLP SVOCs by GCMS - SUB Phoenix
Herbicides (TCLP) - Sub
TCLP Mercury - Sub PHOENIX
TCLP Metals - Sub PHOENIX
Pesticides (TCLP) - Sub

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith Technical Director TNI MORATORY

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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1

2

J

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CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 15090224) consists of 1 soil sample received on 09/09/2015. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

 Lab Sample ID
 Client ID
 Collection Date

 AS27496
 D-101
 09/09/2015 14:30

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 09/09/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Phoenix lab report for quality assurance details regarding the TCLP analysis.

Respectfully submitted,

Julian Grygas

Jill Grygas Project Manager

QUALIFIERS

Definitions

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- MDL Adjusted Method Detection Limit.
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- PQL Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.
- RL Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY



New York Office 2190 Technology Dr. Schenectady, NY 12308 (518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed <15090224P1>

1	www.pacelabs.com (518)	346-4592																																
	tion A uired Client Information:	Section B		Infor	mation:		Section																15	0902	2241				<u>-</u> -	Pa	ge:	1 ,	of	1
	pany: Barton and Loguidice DPC	Report To:	-			-	Attentio	Information: on:		count	s Pa	yabl	<u>—</u>			\neg								DE	CH	ΙΛΙ	^ F	2V A	VOE	NCY				
Add	ress: 10 Airline Drive, Suite 200	Copy To:	Natha	n Sl	haffer		Compar	ny Name:				-		. DP	C	\dashv	F	j N	NPDE	-0	, praese		ROU								WATE	_		
Alba	ny, NY 12205						Addres			Elwood						-				-3	y			טאו	VVA	EK					VVAII	:K		
	il To: nshaffer@bartonandloguidice.com	Purchase						ote Referei		000°			-			_	L	3	UST		*****	RC	CRA		/www.				THEF					
Phor		Order No.: Project Nam	00: /	ALCO	<u> </u>			ect Manag					. /			\dashv					ΤE				1	GΑ				N			1C	ı
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	Date/TAT:	Project Numb	er: :	1368	.001.001		Pace Pr	ofile #:									Fi	iltere	d (Y/	N)	Δ	1/	\angle	[[\angle	$\angle I$	//	\angle	$\angle\!$		///		\angle	
ITEM#	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE TISSUE	DW WT WW P SL OL WP AR OT TS	MATRIX CODE	G=GRAB C=COMP		POSITE ART	COMP END/4	OSITE	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H ₂ SO ₄		ervativ HOBN		Methanol	Ā	-	ested										T		esidual Chloring	(N ₍₄))	ace P	roject No. Lab I.D.
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Pac	ee Analytical Services, Inc.								Sep	otemb	er 15,	, 201	5											6	File	e(AL	LQ	020r	ev.4	,29Ma	ar06):	1090224 23unz	105P	age 9 of 2

<15090ZZ4PZ>

Sample Condition Upon Receipt

							CLIENT NAME:	Bar-A	b	
60110150 F IF							PROJECT:	<u>^</u> O		
COURIER: FedEx	UPS 🗆	Client 🔀	Pace 🗆	Othe						
TRACKING #	NK			Y SEAL PRESE		No 🖄	INTACT: Yes	No □	N/	AΜ
PACKING MATERIAL: B	•	Bubble Ba	-	None 🗴	Other 🗆		ICE USED: Wet 🄀	Blue 🗆	Non	e 🗆
THERMOMETER USED:	-	R Gun 93 , □	#12208	7967 🗆		COOLER TE	MPERATURE (°C):	<u>5,80</u>	ER)	
BIOLOGICAL TISSUE IS	FROZEN: Yes □	Nó à	N/ASC				Temp should be ab	ove freezing	to 6°C	
COMMENTS:						Temperatur	re is Acceptable?	∜ es	□No	
Chain of Custody Pres		ЖYès	□No		1.	· · · · · · · · · · · · · · · · · · ·				
Chain of Custody Fille	ed Out:	Ø⊠xes	□No		2.					
Chain of Custody Reli	nquished:	Yes	□No		3.					
Sampler Name / Signa	ature on COC:	√Z∫Yes	□No		4.					
Samples Arrived with	in Hold Time:	Exes	□No		5.					
Short Hold Time Anal	ysis (<72hr):	□Yes	7ENO		6.					
Rush Turn Around Tin	ne Requested:	> ⊠¥es	□No		7. AS	SAP				
Sufficient Volume:		Yes	□No		8.	- /)		* ***		
Correct Containers Us	ed:	Yes	□No		9.				· · · · · · · · · · · · · · · · · · ·	
- Pace Containers	Used:	Yes	□No							
Containers Intact:		Yes	□No		10.					
iltered volume receiv	ed for Dissolved	tests: □ _{Yes}	□No	DVIA	11.					
Sample Labels match	COC:	Yes	□No		12.					
- Includes date/tii	me/ID/Analysis									
All containers needing		en □Yes	□No	N/A	13.					
chec				<i>'</i>						
All containers needin		n □Yes	□No	N/A						
compliance with EPA				′	Initial when				. A	
- Exceptions that are not		bcontract Analyses			completed:	<u>N</u> 47	ot # of added pres	ervative:	NA_	
leadspace in VOA Via	is (>6mm):	□Yes	□No	N/A	14.					
rip Blank Present:		□Yes	□No	N/A	15.					
rip Blank Custody Sea	A	□Yes	□No	TONIA						
ace Trip Blank Lot #:	NA H 1000	T		/						
ample Receipt form fill	ed in: KAC 41K	كلك					ts and verifying sam		MW	9/10/15
							es and documenting		MOD	9/10/15
			Labeling (Includes Scar	nning Bottles	and enterir	ng LAB IDs into pH l	ogbook):	MW	9/10/15

SAMPLE RECEIPT





SAMPLE RECEIPT REPORT 15090224

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

COC DISCREPANCY: NO

CLIENT: BARTON AND LOGUIDICE

PROJECT: ALCO LRF: 15090224

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: *3 DAY* RECEIVED DATE: 09/09/2015 16:25

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,2}SAMPLES PRESERVED PER METHOD GUIDANCE: YES ³ SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID: N. SHAFFER/ BAR-ALB NUMBER OF COOLERS: 1 **DISPOSAL:** BY LAB (45 DAYS)

CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED **TEMPERATURE(S):** 5.8 (IR) °C

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-101 (AS27496)	*3 DAY* 09-15-15	09/09/2015 14:30	Soil	EPA 8082A	PCB Analysis	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	EPA 8260C - TCLP	TCLP VOCs by GCMS - SUB Phoenix	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	EPA 8270 - TCLP	TCLP SVOCs by GCMS - SUB Phoenix	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	SW-846 8081/1311	Pesticides (TCLP) - Sub	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	SW-846 8151/1311	Herbicides (TCLP) - Sub	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	TCLP Mercury	TCLP Mercury - Sub PHOENIX	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	TCLP Metals	TCLP Metals - Sub PHOENIX	

The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.

Reporting Parameters and Lists

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248 Aroclor 1254

Aroclor 1260

Total PCB Amount > RL

15090224 - Page 12 of 24

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

3 Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it 4 is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

⁶Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

GC - PCB



Analytical Sample Results

Job Number: 15090224

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-101

Lab Sample ID: 15090224-01 (AS27496)

Collection Date: 09/09/2015 14:30

Sample Matrix: SOIL

Received Date: 09/09/2015 16:25

Percent Solid: 87.8 - Results are based on dry weight unless otherwise noted.

Ba	atch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC2	21F-2626-7	SW-846 8082A (PCB)	09/11/2015 14:21	SWC	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 3220	201	EPA 3545A	09/10/2015 15:07	NJB	10.3 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1221		11104-28-2	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1232		11141-16-5	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1242		53469-21-9	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1248		12672-29-6	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1254		11097-69-1	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1260		11096-82-5	ND	0.0551	1.00	U	GC21F-2626-7
Total PCB Amoun	nt > RL	1336-36-3	ND		1.00	U	GC21F-2626-7
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	5)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-	xylene	877-09-8	120	47.0	-123		GC21F-2626-7
Decachlorobiphen	ıyl	2051-24-3	115	35.0	-153		GC21F-2626-7

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Lab)



Quality Control Results Method Blank

Job Number: 15090224

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AS27496B)

Lab Sample ID: PBLK-42

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A Percent Solid: N/A

Bat	tch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC2	21F-2626-5	SW-846 8082A (PCB)	09/11/2015 13:55	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 3220)1	EPA 3545A	09/10/2015 15:04	NJB	10.4 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016		12674-11-2	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1221		11104-28-2	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1232		11141-16-5	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1242		53469-21-9	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1248		12672-29-6	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1254		11097-69-1	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1260		11096-82-5	ND	0.0500	1.00	U	GC21F-2626-5
Total PCB Amount	t > RL	1336-36-3	ND		1.00	U	GC21F-2626-5
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
Tetrachloro-meta-x		877-09-8	117	47.0	-123		GC21F-2626-5
Decachlorobipheny	y1	2051-24-3	117	35.0	-153		GC21F-2626-5

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 15090224

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AS27496L)

Lab Sample ID: LCS-42

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC21F-2626-6	SW-846 8082A (PCB)	09/11/2015 14:08	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1:	32201	EPA 3545A	09/10/2015 15:05	NJB	10.1 g	25.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	% Rec.	$\mathbf{Q}^{^{1}}$ (%)	
Aroclor 1242	53469-21-9	1.24	1.25	101	70.0-130	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	1
Surrogate	CAS No.	% Recovery	(%)	Q¹ File ID
Tetrachloro-meta-xylene	877-09-8	106	47.0-123	GC21F-2626-6
Decachlorobiphenyl	2051-24-3	119	35.0-153	GC21F-2626-6

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Subcontract Analysis



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

September 15, 2015

15090224

FOR: Attn: Ms. Chelsea Farmer Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/09/1514:30Location Code:NEASTANYReceived by:LB09/10/1518:11

Rush Request: 48 Hour Analyzed by: see "By" below

Laboratory Data SDG ID: GBJ90329
Phoenix ID: BJ90329

Project ID: 15090224 Client ID: D-101

P.O.#:

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference	
TCLP Silver	< 0.10	0.10	mg/L	1	09/11/15	EK	SW6010C	
TCLP Arsenic	< 0.10	0.10	mg/L	1	09/11/15	EK	SW6010C	
TCLP Barium	0.82	0.10	mg/L	1	09/11/15	EK	SW6010C	В
TCLP Cadmium	< 0.050	0.050	mg/L	1	09/11/15	EK	SW6010C	
TCLP Chromium	< 0.10	0.10	mg/L	1	09/11/15	EK	SW6010C	
TCLP Mercury	< 0.0002	0.0002	mg/L	1	09/11/15	RS	SW7470A	
TCLP Lead	0.10	0.10	mg/L	1	09/11/15	EK	SW6010C	
TCLP Selenium	< 0.10	0.10	mg/L	1	09/11/15	EK	SW6010C	
TCLP Metals Digestion	Completed				09/11/15	1/1	SW3005A	
TCLP Digestion Mercury	Completed				09/11/15	1/1	SW7470A	
TCLP Herbicides Extraction	Completed				09/11/15	W/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				09/10/15	1	SW1311	
TCLP Extraction for Organics	Completed				09/14/15	1	SW1311	
TCLP Pesticides Extraction	Completed				09/15/15	W/W	SW3510C	
TCLP Semi-Volatile Extraction	Completed				09/11/15	LT/T	SW3510C	
TCLP Extraction Volatiles	Completed				09/10/15	Υ	SW1311	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	4.2	ug/L	10	09/14/15	BB	SW8151A	
2,4-D	ND	4.2	ug/L	10	09/14/15	BB	SW8151A	
QA/QC Surrogates								
% DCAA	59		%	10	09/14/15	BB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	09/15/15	CE	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	09/15/15	CE	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	09/15/15	CE	SW8081B	
a-BHC	ND	0.50	ug/L	10	09/15/15	CE	SW8081B	

Page 1 of 3 Ver 1

Project ID: 15090224 Phoenix I.D.: BJ90329
Client ID: D-101

Client ID: D-101							
Doromotor	Dogult	RL/	Linita	Dilution	Data/Time	Dv	Deference
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Alachlor	ND	0.50	ug/L	10	09/15/15	CE	SW8081B 1
Aldrin	ND	0.50	ug/L	10	09/15/15	CE	SW8081B
b-BHC	ND	0.50	ug/L	10	09/15/15	CE	SW8081B
Chlordane	ND	5.0	ug/L	10	09/15/15	CE	SW8081B
d-BHC	ND	0.50	ug/L	10	09/15/15	CE	SW8081B
Dieldrin	ND	1.0	ug/L	10	09/15/15	CE	SW8081B
Endosulfan I	ND	0.50	ug/L	10	09/15/15	CE	SW8081B
Endosulfan II	ND	1.0	ug/L	10	09/15/15	CE	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	09/15/15	CE	SW8081B
Endrin	ND	1.0	ug/L	10	09/15/15	CE	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	09/15/15	CE	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	09/15/15	CE	SW8081B
Heptachlor	ND	0.50	ug/L	10	09/15/15	CE	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	09/15/15	CE	SW8081B
Methoxychlor	ND	0.50	ug/L	10	09/15/15	CE	SW8081B
Toxaphene	ND	20	ug/L	10	09/15/15	CE	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	77		%	10	09/15/15	CE	30 - 150 %
%TCMX (Surrogate Rec)	100		%	10	09/15/15	CE	30 - 150 %
TCLP Volatiles							
1,1-Dichloroethene	ND	25	ug/l	E	09/13/15	МН	SW8260C
			ug/L	5	09/13/15		
1,2-Dichloroethane	ND	25 25	ug/L	5	09/13/15	MH	SW8260C SW8260C
Benzene	ND	25	ug/L	5		MH	
Carbon tetrachloride	ND	25	ug/L	5	09/13/15	MH	SW8260C
Chlorobenzene	ND	25	ug/L	5	09/13/15	MH	SW8260C
Chloroform	ND	25	ug/L	5	09/13/15	MH	SW8260C
Methyl ethyl ketone	ND	25	ug/L	5	09/13/15	MH	SW8260C
Tetrachloroethene	ND	25	ug/L	5	09/13/15	MH	SW8260C
Trichloroethene	ND	25	ug/L	5	09/13/15	MH	SW8260C
Vinyl chloride	ND	25	ug/L	5	09/13/15	MH	SW8260C
QA/QC Surrogates	400		0/	-	00/40/45		70 400 0/
% 1,2-dichlorobenzene-d4	102		%	5	09/13/15	MH	70 - 130 %
% Bromofluorobenzene	96		%	5	09/13/15	MH	70 - 130 %
% Dibromofluoromethane	99		%	5	09/13/15	MH	70 - 130 %
% Toluene-d8	98		%	5	09/13/15	MH	70 - 130 %
TCLP Acid/Base-Neutra	<u>I</u>						
1,4-Dichlorobenzene	ND	130	ug/L	1	09/14/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	130	ug/L	1	09/14/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	130	ug/L	1	09/14/15	DD	SW8270D
2,4-Dinitrotoluene	ND	130	ug/L	1	09/14/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	130	ug/L	1	09/14/15	DD	SW8270D
3&4-Methylphenol (m&p-Cresol)	ND	130	ug/L	1	09/14/15	DD	SW8270D
Hexachlorobenzene	ND	130	ug/L	1	09/14/15	DD	SW8270D
Hexachlorobutadiene	ND	130	ug/L	1	09/14/15	DD	SW8270D
Hexachloroethane	ND	130	ug/L	1	09/14/15	DD	SW8270D
Nitrobenzene	ND	130	ug/L	1	09/14/15	DD	SW8270D
Pentachlorophenol	ND	130	ug/L	1	09/14/15	DD	SW8270D
Pyridine	ND	130	ug/L	1	09/14/15	DD	SW8270D
			Daws 2 of 2				

Page 2 of 3 Ver 1

Project ID: 15090224 Phoenix I.D.: BJ90329

Client ID: D-101

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
QA/QC Surrogates							
% 2,4,6-Tribromophenol	85		%	1	09/14/15	DD	15 - 110 %
% 2-Fluorobiphenyl	80		%	1	09/14/15	DD	30 - 130 %
% 2-Fluorophenol	59		%	1	09/14/15	DD	15 - 110 %
% Nitrobenzene-d5	75		%	1	09/14/15	DD	30 - 130 %
% Phenol-d5	49		%	1	09/14/15	DD	15 - 110 %
% Terphenyl-d14	89		%	1	09/14/15	DD	30 - 130 %

^{1 =} This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director

September 15, 2015

Page 3 of 3 Ver 1

B = Present in blank, no bias suspected.

7

Page 1 of 1

Tuesday, September 15, 2015

Sample Criteria Exceedences Report

GBJ90329 - NEASTANY

State: NY

Criteria: None

RL Analysis
SampNo Acode Phoenix Analyte Criteria Result RL Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

^{***} No Data to Display ***

CHAIN OF CUSTODY RECORD PAGE 1 OF 1 DISPOSAL REQUIREMENTS: (To be filled in by Client) Pace Analytical Services. Inc.	3 LRF # 15090224 (LAB USE ONLY)	PR	LOCATION (CITIOS"ATE) ADORESS: BOTTLE TYPE; 0 - ICE BOTTLE \$1ZE: 1 - HCL	NY 2. HAG3	15 80 50 15 15 15 15 15 15 1	NAME OF COUNTERING TO SETTING TO THE COUNTERING		GRABY SAMPLE ID	MATRIX COMP (LAB USE ONLY) / / /	15 14:30 S GRAB AS27496 2 X X X X X X X X X Z 227			COCTAME Y Y INROPERLY PRESERVED Y N OTHER NOTES: ANNIVER RAND FIRE FURL FURL PRESERVED Y N	N COC DISCREPANCIAS. Y N RECEVO WITHOLOING TIMES Y N RELNDINGHED BY RELNDINGHED BY RELNDINGHED BY RELNDINGHED BY RECEIVED BY R	Monte Authorized Michigan Comment Comm
OY RECORD ervices. In	nectady, NY 123 Fax (518) 381-6	PROJECT#PROJE 15090224	LOCATION (CIT/IS	¥		NAME OF COURIE	pacalate com		MATRIX	S			COCTAPE	COC DISCREPANO RECENED BY	KANIONELLA
custol	Drive, Sche 46-4592				¥ 		Chassas Farmar@	Nico e.Jchmoon@s	DATE	9/8/15			TBMP.	Z Chas	
CHAIN OF	2190 Technology L Telephone (518) 3- www.pacelabs.com	CLENT (REPORTS TO BE SENT TO SE	PROJECT MANAGER:	Chelsea Farmer	Project		ELECTRONIC RESULTS		SAMPLEID	D-101			AMBIENT OR CHILLED	REUEIVED BROKEN ON LAKING:	EDNOWNE PACE 13:30

96 90329

Analytical Services Request

P.O. Number: SRS-806

15090224	d: 9/10/2015	8/15/2015	o: Chelsea-Farmer@page[355.com	5: Sucenne, McLanghlin@pacelabs.co
Pace Project IV	Dete Prepare:	ANALYSIS DUE DATE	Report to:	Invoice to:

PHOENI) MASSIG TUMPIK SARAH	THE STORET	Pace Analytical Services, Inc.	ú	Dete Prepared: 9/10/2015
Scherectedy, NY 12308 Phone: (518) 346-4592 Fract Lab FROENIX ENV. Sending Project Mgr. Sending Project Mgr. Sending Project Mgr. Sending Project Mgr. All questions should be addressed to sending project meneger.				
Phone: (518) 349-4592 ract Lab PHOENIX ENV. Set Lest Metalls Tumpike Manchester 06040 Certification Required SARAH BELL SARAH BELL All questions should be addressed to sending project menager.		Scheneclady, NY 12308		Report to: Chelsea.Farmer@pagelabs.com
Tract Lab Set East Middle Tumpike Manchester 06040 Certification Required SARAH BELL All questions should be addressed to sending project meneger.		Phone: (518) 346-4592		Invoice to: Sucenne, McLanghlin@pacelabs.co
Tract Lab PHOENIX ENV. Senting Project Mgr. 587 East MGdle Tumpike Manchester 06040 Certification Required SARAH BELL QC Deliverable All questions should be addressed to sending project meneger.	_			
S87 East Medie Tumpike Manchester 06040 Certification Required SARAH BELL OC Deliverable All questions should be addressed to sending project meneger.	Subcontract Lab	PHOENIX ENV.	Sending Project Mgr.	Сћејзев Гагтаг
SARAH BELL All questions should be addressed to sending project menager.	Address	597 East Middle Tumpike Manchester 06040	Certification Required	N
All questions should be addressed to sending project mentager.	Contact	SARAH BELL	CC Deliverable	LPVEE-2WYS DEC EQUIS EDD
		All questions should be ad	dressed to sending project manager.	

Other (identify) Report Wet or Day Weight?

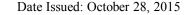
Analytical

Type of Work: Requested Reportable Units

		WORK RE	WORK REQUESTED			
Analysie / Methad	Container Type (walnes volume)	Cuentry of consisors	Preservative	Semples	Unit Price	Amount
EPA 8260C - TCLP			İ	-		4
EPA 8270 - TCLP				٦		- 4
TQP Heraldides				-		4
TCLP Mercury				- <u> </u>		- \$
TCLP 4/46ldlp				-		- 3
ICLP Pesticides				-		- 3
		İ				· S
					Unit Price Total:	- 8

Discount/Surcharge Factors:

Special Requirements / Notes:





Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): October 21, 2015

Lab Report ID: 15100544

Client Service Contact: Chelsea Farmer (518) 346-4592 ext. 3843

Analysis Included:

PCB Analysis EPA Method 8260C TCLP - Sub - Pace-LI EPA Method 8270D TCLP Sub - Pace-LI Herbicides (TCLP) - Sub - Pace-LI Mercury TCLP- Sub - Pace-LI ICP Metals (TCLP 6010C) - Sub - Pace-LI

TCLP Pesticides - Sub - Pace-LI

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith Technical Director TNI LABORATORA

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com

Pace Analytical Services, Inc. October 28, 2015 15100544 - Page 1 of 33

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Section 2: QUALIFIERS	6
Section 3: SAMPLE CHAIN OF CUSTODY	8
Section 4: SAMPLE RECEIPT	11
Section 5: GC - PCB	13
Section 6: Quality Control Samples (Lab)	15
Section 7: Subcontract Analysis	18

CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 15100544) consists of 1 soil sample received on 10/21/2015. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

 Lab Sample ID
 Client ID
 Collection Date

 AS33401
 D-102
 10/21/2015 15:30

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 10/21/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved with any exceptions listed below: Sample was received outside of temperature limits. See sample receipt for details.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see Pace Long Island lab report for quality assurance details. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,

Chelsea L. Farmer Project Manager

QUALIFIERS

Definitions

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- MDL Adjusted Method Detection Limit.
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- PQL Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.
- RL Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY



CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be compled to the complete of the complete o

plr'S	15	100	54	4P	1>
_					

Section A Required Client Information: Section B Required Project Information	; see tee soon as soon as eri	Section C Invoice Information:	Page:	of
Company: B+L Report To: Nathan S	latte			1882119
Address: 10 Air line drive Copy To: And Bu	Man	Attention: Billing Accounts Reco Company Name: Buston and log UID Address: Syrucse	REGULATORY AGENCY	
Email To: Rose A. Burchard Order No.	of McCornil	Address: Suracus	☐ NPDES ☐ GROUND	WATER DRINKING WATER
newstard In the country with the No.		Pace Quote Reference:	UST RCRA	OTHER
Paguested Duo Dato (TAT)	2	Pace Project Manager:	Site Location	
Requested Due Date/TAT: ASAP (244r?) Project Number: 1768	3.001.001	Pace Profile #:	STATE: U7	_
Section D Matrix Codes			sted Analysis Filtered (Y/N)	
Required Client Information Matrix Codes MATRIX / CODE	COLLECTED	Preservatives		
Matrix Codes	No.			
Waste Water WW Product P By RY S	MPOSITE COMPOSITE START END/GRAB			2
SAMPLE ID SAMPLE ID Waste Water WWV Product P Soil/Solid SL Water P Soil/Soil/Soil/Soil/Soil/Soil/Soil/Soil/		SS		Chlorine (Y/N)
(A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Tissue TS Other OT O L	TA AM	Allver		lorin
Other OT O E	E TEMP	Serve Serve	23	ا م ا
MATRIX SAMPLE	TIME DATE TIME VS	# OF CONTAINERS Unpreserved H ₂ SO ₄ HNO ₃ HCI NaOH Na ₂ S ₂ O ₃ Methanol Other Other Other	15	Pace Project No./ Lab I.D.
1 D-102 9 C-10/21				
2 10 10 10 10 10 10 10 10 10 10 10 10 10		4 X X X X	A533401	(call with any question;)
3				questro)
4				
5				
7				
8				
9				
10				
11				
12				
ADDITIONAL COMMENTS RELINQUISHED BY		TIME ACCEPTED BY / AFFILIATION	N DATE TIME	SAMPLE CONDITIONS
- My	10/21/15	16:21 Mg 1he	10/21/15 16:21 20:	260 W W Y
ORIGINAL	SAMPLER NAME AND SIGNATURE		ů	on () oler dear
	PRINT Name of SAMPLER:	Netter Staffa	Temp is 0.	Received on Ice (Y/N) Ice
Pace Analytical Services Inc.	SIGNATURE of SAMPLER:	DATE Signe (MM/DD/YY	10/21/15	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Sample Condition Upon Receipt

						CLIENT NAME	: Bas	Alb	
						PROJECT :	ALC	<u>-0</u>	
. 18	ient X	Pace 🗆	Other						
TRACKING #			SEAL PRESEN	IT: Yes □	No 🔂	- INTACT:	Yes □	No □	N/A 🕱
PACKING MATERIAL: Bubble Wrap	Bubble Bag	s □	None	Other \Box		ICE USED: We	t 🗆 💢 Bl	lue 🗆	None 🕰
THERMOMETER USED: #164 □ IR Gui	n 03℃	#122087	'967 □		COOLER TE	MPERATURE (°	c): <u> </u>	.0.5°C	<u> </u>
BIOLOGICAL TISSUE IS FROZEN: Yes □	No □	N/A	-			Temp should	be above fre	ezing to 6°	С
COMMENTS:					Temperatui	re is Acceptable	e? ⊡Ye	es 📉	•
Chain of Custody Present:	Yes	□No		1.					
Chain of Custody Filled Out:	Yes	□No		2.					
Chain of Custody Relinquished:	Yes	□No		3.					
Sampler Name / Signature on COC:	Yes	□No		4.					
Samples Arrived within Hold Time:	Yes	□No		5.					
Short Hold Time Analysis (<72hr):	□Yes	X No		6.					
Rush Turn Around Time Requested:	⊈ Yes	□No		7. ASAP					
Sufficient Volume:	X yes	□No		8.					
Correct Containers Used:	≥ es	□No		9.					
- Pace Containers Used:	es	□No							
Containers Intact:	X Øes	□No	:	10.					
Filtered volume received for Dissolved test	S: □ _{Yes}	□No	∑ ©⁄A	11.					
Sample Labels match COC:	≥ Pes	□No		12.					
 Includes date/time/ID/Analysis 							· · · · · · · · · · · · · · · · · · ·		
All containers needing preservation have been checked:	□Yes	□No	≻= N/A	13.					
All containers needing preservation are in	□Yes	□No	∑ A/A						
compliance with EPA recommendation:				Initial when					
- Exceptions that are not checked: TOC, VOA, Subcont	ract Analyses			completed:	NIA	Lot # of added	d preservativ	e: <u>N</u>	IA
Headspace in VOA Vials (>6mm):	□Yes	□No		14.					
Trip Blank Present:	□Yes	□No	/ A //A	15.					
Trip Blank Custody Seals Present:	□Yes	□No	> Zoor∧						
Pace Trip Blank Lot #:									
Sample Receipt form filled in: 16/22/16					_	nts and verifyir	•	, 	10
						ies and docun	_		JB 10/22/15
		Labeling (I	ncludes Scan	ining Bottles	and enteri	ing I AR IDs int	o nH loghool	KI. KA	C 12/22/16

SAMPLE RECEIPT





SAMPLE RECEIPT REPORT 15100544

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE

PROJECT: ALCO LRF: 15100544

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: *4 DAY* RECEIVED DATE: 10/21/2015 16:21

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,2}SAMPLES PRESERVED PER METHOD GUIDANCE: NO ³ SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID: N. SHAFFER/ BAR-ALB **DISPOSAL:** BY LAB (45 DAYS)

NUMBER OF COOLERS: 1 CUSTODY SEAL INTACT: NA COOLER STATUS: AMBIENT **TEMPERATURE(S):** 520.7 (IR) °C

COC DISCREPANCY: NO

COMMENTS:

UPON RECEIPT AT THE LAB, SAMPLE TEMPERATURE WAS GREATER THAN 6C. NO ICE WAS PRESENT.

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-102 (AS33401)	*4 DAY* 10-28-15	10/21/2015 15:30	Soil	E6010C-TCLP	ICP Metals (TCLP 6010C) - Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	E7470A-TCLP	Mercury TCLP- Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	E8081-TCLP	TCLP Pesticides - Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	E8151A-TCLP	Herbicides (TCLP) - Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	E8260C-TCLP	EPA Method 8260C TCLP - Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	E8270D-TCLP	EPA Method 8270D TCLP Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	EPA 8082A	PCB Analysis	

The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.

Reporting Parameters and Lists

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248 Aroclor 1254

Aroclor 1260

Total PCB Amount > RL

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

3 Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it 4 is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

⁶Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

GC - PCB



Analytical Sample Results

Job Number: 15100544

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592

Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: D-102

Lab Sample ID: 15100544-01 (AS33401)

Collection Date: 10/21/2015 15:30

Sample Matrix: SOIL

Received Date: 10/21/2015 16:21

Percent Solid: 91.5 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-1565-	18 SW-846 8082A (PCB)	10/25/2015 14:26	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 32646	EPA 3546	10/23/2015 14:25	LMB	10.0 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1221	11104-28-2	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1232	11141-16-5	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1242	53469-21-9	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1248	12672-29-6	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1254	11097-69-1	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1260	11096-82-5	ND	0.0545	1.00	U	GC10F-1565-18
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1565-18
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{^{1}}$	File ID
Tetrachloro-meta-xylene	877-09-8	89.6	47.0	-123		GC10F-1565-18
Decachlorobiphenyl	2051-24-3	95.1	35.0	-153		GC10F-1565-18

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Sample temperature was outside of method acceptance limits at the time of receipt.

Quality Control Samples (Lab)



Quality Control Results Method Blank

Job Number: 15100544

Pace Analytical Services, Inc.

2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Method Blank (AS33401B)

Lab Sample ID: PBLK-50

Collection Date: N/A Sample Matrix: SOIL Received Date: N/A Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-1565-	16 SW-846 8082A (PCB)	10/25/2015 14:00	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 32646	EPA 3546	10/23/2015 14:24	LMB	10.1 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fact	or Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC10F-1565-16
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1565-16
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(o)	$\mathbf{Q}^{\scriptscriptstyle 1}$	File ID
Tetrachloro-meta-xylene	877-09-8	91.0	47.0	-123		GC10F-1565-16
Decachlorobiphenyl	2051-24-3	104	35.0	-153		GC10F-1565-16

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.





Quality Control Results Lab Control Sample (LCS)

Job Number: 15100544

Pace Analytical Services, Inc. 2190 Technology Drive

Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

Client: BARTON AND LOGUIDICE

Project: ALCO

Client Sample ID: Lab Control Sample (AS33401L)

Lab Sample ID: LCS-50

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1565-17	7 SW-846 8082A (PCB)	10/25/2015 14:13	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm
Prep 1:	32646	EPA 3546	10/23/2015 14:24	LMB	10.1 g	25.0 mL	NA

		Added	LCS	LCS	Limits	
Analyte Spiked	CAS No.	(ug/g)	(ug/g)	% Rec.	Q' (%)	
Aroclor 1242	53469-21-9	1.24	1.06	85.3	70.0-130	

¹ Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

			Limits	1
Surrogate	CAS No.	% Recovery	(%)	Q ¹ File ID
Tetrachloro-meta-xylene	877-09-8	91.7	47.0-123	GC10F-1565-17
Decachlorobiphenyl	2051-24-3	105	35.0-153	GC10F-1565-17

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Subcontract Analysis



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

Lab No.: 1510H16-001

Client Sample ID: D-102

Type: Soil

Sample Information:

Origin:

William A. Kotas Attn To: : 10/22/2015

Collected : 10/21/2015 3:30:00 PM

AS33401 *Samples received out of temperature at Schenectady lab

Collected By: CLIENT

Received

Analyst: SH
Container:
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04
Container-01 of 04

NOTES:

Surrogate recovery low. Low recovery due to matrix confirmed by matrix spike.

	Analytical Method:	SW1311/8151A: <u>Pre</u>	ep Method: SW	1311/8151	Prep Date: 1	0/26/2015 9:43:49 AM	Analyst: MJM
				Prep Com	ments: ambient room tem	perature exceeded range	
	Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>		Analyzed:	Container:
2,	4,5-TP (Silvex)	< 0.0025	1	mg/L		10/27/2015 6:58 PM	Container-01 of 04
2,	,4-D	< 0.0050	1	mg/L		10/27/2015 6:58 PM	Container-01 of 04
	Surr: DCAA	56.9	1	%REC	Limit 36-121	10/27/2015 6:58 PM	Container-01 of 04

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/28/2015 Caitlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Page 1 of 12



TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

www.pacelabs.com

Lab No.: 1510H16-001

LABORATORY RESULTS Results for the samples and analytes requested

the lab and is responsible only for the certified tests requested.

The lab is not directly responsible for the integrity of the sample before receipt at

Client Sample ID: D-102

Sample Information:

Type: Soil

Origin:

Collected : 10/21/2015 3:30:00 PM

William A. Kotas

Received : 10/22/2015 AS33401 *Samples received out of temperature at Schenectady lab

Attn To:

Collected By : CLIENT										
Analytical Method:	SW1311/7470	A :	Prep N	Method: SW	7470		Prep Date: 10/27/2	015 7:00:00 AM	Analyst:	MF
					Prep Com	ments:	ambient room temperatu	re exceeded range		
Parameter(s)		Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>			Analyzed:	Contai	ner:
Mercury		< 0.200		1	ug/L		10/	/27/2015 1:15 PM	Containe	r-01 of 04
Analytical Method:	SW1311/60100	C :	Prep M	Method: SW	3005A		Prep Date: 10/26/2	015 1:30:00 PM	Analyst:	CGZ
					Prep Com	ments:	ambient room temperatu	re exceeded range		
Parameter(s)		Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>			Analyzed:	<u>Contai</u>	ner:
Arsenic		< 1.00		1	mg/L		10/	/27/2015 3:32 AM	Containe	r-01 of 04
Barium		< 10.0		1	mg/L		10/	/27/2015 3:32 AM	Containe	r-01 of 04
Cadmium		< 0.100		1	mg/L		10/	/27/2015 3:32 AM	Containe	r-01 of 04
Chromium		< 1.00		1	mg/L		10/	/27/2015 3:32 AM	Containe	r-01 of 04
Lead		< 1.00		1	mg/L		10/	/27/2015 3:32 AM	Containe	r-01 of 04
Selenium		< 0.100		1	mg/L		10/	/27/2015 3:32 AM	Containe	r-01 of 04
Silver		< 1.00		1	mg/L		10/	/27/2015 3:32 AM	Containe	r-01 of 04
Analytical Method:	SW1311/8081E	B :	Prep N	Method: 351	0C		Prep Date: 10/26/2	015 5:19:55 PM	Analyst:	JS
					Prep Com	Comments: ambient room temperature exceeded range				
Parameter(s)		Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>			Analyzed:	Contai	ner:
Chlordane		< 0.0020)	1	mg/L		10/	27/2015 3:06 PM	Containe	r-01 of 04
Endrin		< 0.0002	20	1	mg/L		10/	27/2015 3:06 PM	Containe	r-01 of 04
gamma-BHC		< 0.0001	10	1	mg/L		10/	/27/2015 3:06 PM	Containe	r-01 of 04
Heptachlor		< 0.0001	10	1	mg/L		10/	27/2015 3:06 PM	Containe	r-01 of 04
Heptachlor epoxide		< 0.0001	10	1	mg/L		10/	27/2015 3:06 PM	Containe	r-01 of 04
Methoxychlor		< 0.0010)	1	mg/L		10/	/27/2015 3:06 PM	Containe	r-01 of 04
Toxaphene		< 0.010		1	mg/L		10/	/27/2015 3:06 PM	Containe	r-01 of 04
Surr: Decachlorobiph	enyl	82.4		1	%REC	Limit	30-150 10/	/27/2015 3:06 PM	Containe	r-01 of 04
Surr: Tetrachloro-m-x	ylene	79.5		1	%REC	Limit	30-150 10/	/27/2015 3:06 PM	Containe	r-01 of 04

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/28/2015 Cathlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 2 of 12



William A. Kotas

: 10/21/2015 3:30:00 PM

TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

: 10/22/2015

2190 Technology Drive Schenectady, NY 12308

Client Sample ID: D-102

AS33401 *Samples received out of temperature at Schenectady lab

Lab No.: 1510H16-001

LABORATORY RESULTS Results for the samples and analytes requested

the lab and is responsible only for the certified tests requested.

The lab is not directly responsible for the integrity of the sample before receipt at

Sample Information:

Type: Soil

Origin:

Collected By: CLIENT

Attn To:

Collected

Received

Analytical Method: SV	V1311/8260C:			<u>Prep Date:</u> 10/23/2015 3:11:46 PM <u>Analyst:</u>	MF
Parameter(s)	Results Qualifie	<u>r D.F.</u>	<u>Units</u>	Analyzed: Contained	<u>ər:</u>
1,1-Dichloroethene	< 0.010	1	mg/L	10/27/2015 9:56 AM Container-	01 of 04
1,2-Dichloroethane	< 0.010	1	mg/L	10/27/2015 9:56 AM Container-	01 of 04
1,4-Dichlorobenzene	< 0.010	1	mg/L	10/27/2015 9:56 AM Container-	01 of 04
2-Butanone	< 0.010	1	mg/L	10/27/2015 9:56 AM Container-	01 of 04
Benzene	< 0.010	1	mg/L	10/27/2015 9:56 AM Container-	01 of 04
Carbon tetrachloride	< 0.010	1	mg/L	10/27/2015 9:56 AM Container-	01 of 04
Chlorobenzene	< 0.010	1	mg/L	10/27/2015 9:56 AM Container-	01 of 04
Chloroform	< 0.010	1	mg/L	10/27/2015 9:56 AM Container-	01 of 04
Tetrachloroethene	< 0.010	1	mg/L	10/27/2015 9:56 AM Container-	01 of 04
Trichloroethene	< 0.010	1	mg/L	10/27/2015 9:56 AM Container-	01 of 04
Vinyl chloride	< 0.010	1	mg/L	10/27/2015 9:56 AM Container-	01 of 04
Surr: 1,2-dichloroethane-	d4 127	1	%REC	Limit 53-183 10/27/2015 9:56 AM Container-	01 of 04
Surr: 4-Bromofluorobenz	ene 103	1	%REC	Limit 52-124 10/27/2015 9:56 AM Container-	01 of 04
Surr: Toluene-d8	96.4	1	%REC	Limit 60-135 10/27/2015 9:56 AM Container-	01 of 04

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Date Reported:

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

10/28/2015

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Test results meet the requirements of NELAC unless otherwise noted.

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Cathlin Panzarella

Project Manager





QC SUMMARY REPORT

WO#: **1510H16**

28-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100544 - B&L ALCO **BatchID:** 52644

Website: www.pacelabs.com

Sample ID: mb-52644 Client ID: PBW	SampType: mblk Batch ID: 52644	TestCode: 1311_h Units: mg/L TestNo: SW1311/8151 SW1311/8151		Prep Date: 10/26/2015 Analysis Date: 10/27/2015				RunNo: 85937 SeqNo: 1862908		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	< 0.0050	0.0050								
2,4,5-TP (Silvex) Surr: DCAA	< 0.0025 0.084	0.0025 0.1000		83.7	36	121				

Sample ID: Ifb-52644	SampType: Ifb	TestCode: 1	311_h	Units: mg/L		Prep Dat	e: 10/26/2	015	RunNo: 859	37	
Client ID: ZZZZZZ	Batch ID: 52644	TestNo: SW1311/8151 SW1311/8151		Analysis Date: 10/27/2015			015	SeqNo: 1862909			
Analyte	Result	PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	0.017	0.0050	0.02000	0	86.6	47	152				
2,4,5-TP (Silvex)	0.0092	0.0025	0.01000	0	92.3	44	157				
Surr: DCAA	0.075		0.1000		74.7	36	121				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 4 of 12





QC SUMMARY REPORT

WO#:

1510H16

28-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100544 - B&L ALCO **BatchID:** 52650

Website: www.pacelabs.com

Sample ID: MB-52650 Client ID: PBW	SampType: MBLK Batch ID: 52650	TestCode: 1311_M Units: mg/ TestNo: SW1311/6010 SW3010A	Prep Date: 10/26/2015 Analysis Date: 10/27/2015	RunNo: 85862 SeqNo: 1860576
Client ID. FBW	Balcii ID. 32030	165th0. 3441311/6010 3443010A	Allalysis Date. 10/21/2013	3eq110. 1000370
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Arsenic	< 1.00	1.00		
Barium	< 10.0	10.0		
Cadmium	< 0.100	0.100		
Chromium	< 1.00	1.00		
Lead	< 1.00	1.00		
Selenium	< 0.100	0.100		
Silver	< 1.00	1.00		

Sample ID: LCS-52650	SampType: LCS	TestCoo	de: 1311_M	Units: mg/L		Prep Da	te: 10/26/2	015	RunNo: 858	362	
Client ID: LCSW	Batch ID: 52650	TestN	lo: SW1311/6	010 SW3010A		Analysis Da	te: 10/27/2	015	SeqNo: 186	60578	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 1.00	1.00	0.5000	0	103	80	120				
Barium	< 10.0	10.0	2.500	0	98.0	80	120				
Cadmium	2.46	0.100	2.500	0	98.4	80	120				
Chromium	2.41	1.00	2.500	0	96.6	80	120				
Lead	< 1.00	1.00	0.5000	0	96.9	80	120				
Selenium	0.497	0.100	0.5000	0	99.5	80	120				
Silver	< 1.00	1.00	1.000	0	94.7	80	120				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 5 of 12





QC SUMMARY REPORT

WO#:

1510H16

28-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100544 - B&L ALCO **BatchID:** 52654

Website: www.pacelabs.com

Sample ID: mb-52654	SampType: mblk	TestCode	e: 1311_p	Units: mg/L		Prep Dat	te: 10/26/2	015	RunNo: 859	10	
Client ID: PBW	Batch ID: 52654	TestNo	o: SW1311/80	81 SW3510C		Analysis Dat	te: 10/27/2	015	SeqNo: 186	1844	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-BHC	< 0.00010	0.00010									
Heptachlor	< 0.00010	0.00010									
Heptachlor epoxide	< 0.00010	0.00010									
Endrin	< 0.00020	0.00020									
Methoxychlor	< 0.0010	0.0010									
Toxaphene	< 0.010	0.010									
Chlordane	< 0.0020	0.0020									
Surr: Tetrachloro-m-xylene	0.00028		0.0004000		70.8	30	150				
Surr: Decachlorobiphenyl	0.00030		0.0004000		74.3	30	150				

Sample ID: Ifb-52654	SampType: Ifb	TestCoo	de: 1311_p	Units: mg/L		Prep Da	te: 10/26/2	015	RunNo: 859	910	
Client ID: ZZZZZZ	Batch ID: 52654	TestN	lo: SW1311/8	081 SW3510C		Analysis Da	te: 10/27/2	015	SeqNo: 186	61845	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-BHC	0.00068	0.00010	0.0080000	0	85.4	27	146				
Heptachlor	0.00062	0.00010	0.0080000	0	77.7	10	148				
Heptachlor epoxide	0.00068	0.00010	0.0080000	0	85.3	28	144				
Endrin	0.00063	0.00020	0.0080000	0	78.7	22	152				
Methoxychlor	< 0.0010	0.0010	0.0080000	0	79.6	19	146				
Surr: Tetrachloro-m-xylene	0.00030		0.0004000		74.0	30	150				
Surr: Decachlorobiphenyl	0.00030		0.0004000		75.8	30	150				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 6 of 12





QC SUMMARY REPORT

WO#:

1510H16

28-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100544 - B&L ALCO **BatchID:** 52654

Website: www.pacelabs.com

Sample ID: Ifb3-52654	SampType: Ifb	TestCod	le: 1311_p	Units: mg/L		Prep Da	ite: 10/26/2	015	RunNo: 859)10	
Client ID: ZZZZZZ	Batch ID: 52654	TestN	lo: SW1311/8 0	081 SW3510C		Analysis Da	ite: 10/27/2	015	SeqNo: 186	61846	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toxaphene	0.035	0.010	0.04000	0	88.7	46	168				Е
Surr: Tetrachloro-m-xylene	0.00033		0.0004000		82.1	30	150				
Surr: Decachlorobiphenyl	0.00039		0.0004000		98.1	30	150				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 7 of 12





QC SUMMARY REPORT

WO#:

1510H16

28-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100544 - B&L ALCO **BatchID:** 52655

Website: www.pacelabs.com

Sample ID: MB-52655	SampType: MBLK	TestCode: 1311_B	Units: mg/L		Prep Date:	10/26/2015	RunNo: 85972	
Client ID: PBW	Batch ID: 52655	TestNo: SW1311/8	270 SW3520C		Analysis Date:	10/27/2015	SeqNo: 1863413	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit F	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Pyridine	< 0.0100	0.0100						
1,4-Dichlorobenzene	< 0.0100	0.0100						
2-Methylphenol	< 0.0100	0.0100						
3-Methylphenol/4-Methylphenol	< 0.0100	0.0100						
Hexachloroethane	< 0.0100	0.0100						
Nitrobenzene	< 0.0100	0.0100						
Hexachlorobutadiene	< 0.0100	0.0100						
2,4,6-Trichlorophenol	< 0.0100	0.0100						
2,4,5-Trichlorophenol	< 0.0250	0.0250						
2,4-Dinitrotoluene	< 0.0100	0.0100						
Hexachlorobenzene	< 0.0100	0.0100						
Pentachlorophenol	< 0.0250	0.0250						
Surr: 2-Fluorophenol	0.0170	0.07500		22.7	21	110		
Surr: Nitrobenzene-d5	0.0294	0.05000		58.8	35	114		
Surr: Phenol-d5	0.0106	0.07500		14.1	10	110		
Surr: 2,4,6-Tribromophenol	0.0597	0.07500		79.6	10	123		
Surr: 2-Fluorobiphenyl	0.0295	0.05000		59.0	43	116		
Surr: 4-Terphenyl-d14	0.0497	0.05000		99.4	33	141		
Surr: 2-Chlorophenol-d4	0.0377	0.07500		50.3	33	110		
Surr: 1,2-Dichlorobenzene-d4	0.0236	0.05000		47.2	16	110		
Sample ID: LFB-52655	SampType: LFB	TestCode: 1311 B	Units: mg/L		Prep Date:	10/26/2015	RunNo: 85972	
·		_	•		·			
Client ID: ZZZZZZ	Batch ID: 52655	TestNo: SW1311/8 2	270 SW3520C		Analysis Date:	10/27/2015	SeqNo: 1863414	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref Val	%RPD RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit

Value exceeds Maximum Contaminant Level Qualifiers:

> Η Holding times for preparation or analysis exceeded

RSD is greater than RSDlimit 0

Spike Recovery outside accepted recovery limits

D Dilution was required.

M Manual Integration used to determine area response

Second column confirmation exceeds

Е Value above quantitation range

Not Detected at the Reporting Limit

RPD outside accepted recovery limits

Page 8 of 12





QC SUMMARY REPORT

WO#: **1510H16**

28-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100544 - B&L ALCO **BatchID:** 52655

Website: www.pacelabs.com

Sample ID: LFB-52655 Client ID: ZZZZZZ	SampType: LFB Batch ID: 52655		de: 1311_B No: SW1311/82	Units: mg/L 270 SW3520C		Prep Dat Analysis Dat			RunNo: 859 SeqNo: 186		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine	0.0120	0.0100	0.05000	0	23.9	12	81.6				
1,4-Dichlorobenzene	0.0227	0.0100	0.05000	0	45.3	38	116				
2-Methylphenol	0.0198	0.0100	0.05000	0	39.7	27	141				
3-Methylphenol/4-Methylphenol	0.0350	0.0100	0.1000	0	35.0	15	141				
Hexachloroethane	0.0202	0.0100	0.05000	0	40.4	39	111				
Nitrobenzene	0.0329	0.0100	0.05000	0	65.8	39	129				
Hexachlorobutadiene	0.0189	0.0100	0.05000	0	37.8	49	115				S
2,4,6-Trichlorophenol	0.0391	0.0100	0.05000	0	78.1	37	133				
2,4,5-Trichlorophenol	0.0381	0.0250	0.05000	0	76.2	16	148				
2,4-Dinitrotoluene	0.0361	0.0100	0.05000	0	72.3	46	118				
Hexachlorobenzene	0.0472	0.0100	0.05000	0	94.3	55	127				
Pentachlorophenol	0.0400	0.0250	0.05000	0	80.0	13	123				
Surr: 2-Fluorophenol	0.0194		0.07500		25.9	21	110				
Surr: Nitrobenzene-d5	0.0341		0.05000		68.2	35	114				
Surr: Phenol-d5	0.0114		0.07500		15.2	10	110				
Surr: 2,4,6-Tribromophenol	0.0579		0.07500		77.2	10	123				
Surr: 2-Fluorobiphenyl	0.0321		0.05000		64.3	43	116				
Surr: 4-Terphenyl-d14	0.0549		0.05000		110	33	141				
Surr: 2-Chlorophenol-d4	0.0434		0.07500		57.8	33	110				
Surr: 1,2-Dichlorobenzene-d4	0.0246		0.05000		49.2	16	110				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 9 of 12





QC SUMMARY REPORT

WO#: **1510H16**

28-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100544 - B&L ALCO **BatchID:** 52666

Website: www.pacelabs.com

Sample ID: MB-52666	SampType: MBLK	TestCode: 1311_HG	Units: ug/L	Prep Date	e: 10/27/2015	RunNo: 858	88	
Client ID: PBW	Batch ID: 52666	TestNo: SW1311/74	170 SW7470	Analysis Date	e: 10/27/2015	SeqNo: 186	1306	
Analyte	Result	PQL SPK value	SPK Ref Val %	6REC LowLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Managemen	10.000	0.000						

Mercury < 0.200 0.200

Sample ID: MB1-52666 Client ID: PBW	SampType: MBLK Batch ID: 52666	TestCode: 1311_HG TestNo: SW1311/7470	Units: ug/L) SW7470	Å	Prep Dat Analysis Dat	te: 10/27/2	015	RunNo: 858 SeqNo: 186		
Analyte	Result	PQL SPK value S	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
		0.000								

Mercury < 0.200 0.200

Sample ID: LCS-52666 Client ID: LCSW	SampType: LCS Batch ID: 52666	TestCode: 1311_HG TestNo: SW1311/7	ŭ		•	te: 10/27/2015 te: 10/27/2015	RunNo: 85888 SeqNo: 1861308	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD R	Ref Val %RPD RPDLimit	Qual
Mercury	0.970	0.200 1.000	0	97.0	80	120		

Qualifiers: * Value exceeds Maximum Contaminant Level

H Holding times for preparation or analysis exceeded

O RSD is greater than RSDlimit

S Spike Recovery outside accepted recovery limits

D Dilution was required.

M Manual Integration used to determine area response

P Second column confirmation exceeds

E Value above quantitation range

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Page 10 of 12



Sample Receipt Checklist

Website: www.pacelabs.com

Client Name: PACE-NY	Date and Time Received: 10/22/2015					
Work Order Number: 1510H16 RcptNo: 1	Received by: Paige Doherty					
Completed by: Paige Doharty	Reviewed by: Cathlin Panzarella					
Completed Date: <u>10/22/2015 10:54:48 PM</u>	Reviewed Date: <u>10/23/2015 11:25:12 AM</u>					
Carrier name: PACE Pickup						
Chain of custody present? Chain of custody signed when relinquished and received? Chain of custody agrees with sample labels? Are matrices correctly identified on Chain of custody? Is it clear what analyses were requested? Custody seals intact on sample bottles? Samples in proper container/bottle? Were correct preservatives used and noted? Preservative added to bottles:	No					
Sample Condition? Intact Sufficient sample volume for indicated test? Yes Were container labels complete (ID, Pres, Date)? Yes All samples received within holding time? Yes	No □ No □ No □					
Was an attempt made to cool the samples? Yes All samples received at a temp. of $> 0^{\circ}$ C to 6.0° C? Yes Response when temperature is outside of range:	No □ NA □					
Sample Temp. taken and recorded upon receipt? Water - Were bubbles absent in VOC vials? Water - Was there Chlorine Present? Water - pH acceptable upon receipt? Are Samples considered acceptable? Custody Seals present? Airbill or Sticker? Yes Air Bil	No □ No Vials ▼ No □ NA ▼ No □ NA ▼ No □ No Water ▼ No □ No □ No □ No □ No □ No □ No □ No □					
Airbill No:						
Case Number: SDG: Any No response should be detailed in the comments section below, if applications are commented as a section below.	SAS:					
Client Contacted? Yes No NA Person Con Contact Mode: Phone: Fax: Email: Client Instructions: Date Contacted: Contacted By: Regarding: Comments: Upon receipt at Schenectady lab, sample temperature was greater than 6C.	☐ In Person:					
CorrectiveAction:	THO IDO WAS PIESETIL					



WorkOrder: 1510H16

Certifications

STATE	CERTIFICATION#
NEW YORK	10478
NEWJERSEY	NY1 58
CONNECTICUT	PH-0435
MARYLAND	208
MAS S AC HUS ETTS	MNY026
NEW HAMPS HIRE	2987
RHODE IS LAND	LAO00340
PENNS YLVANIA	68-00350

Page 12 of 12

DACE - CI

## Pace Analytical Services, Inc. 2190 Technology Drive, Schenectady, NY 12308 Telephone (518) 346-4592 Fax (518) 381-6055 www.pacelabs.com CLIENT (REPORTS TO BE SENT TO):	ICES, INC. Idy, NY 12308 (518) 381-6055 PROJECT#IPROJECT NAME: 15100544 LOCATION (CITY/STATE) ADDRESS: NY REQUIRED TURN AROUND TIME:	LRF # 15100544		DISPO	DISPOSAL BY RECEIVING LAB	AR
Telephone (518) 346-4592 Fax (4 www.pacelabs.com CLIENT (REPORTS TO BE SENT TO): PACE PROJECT MANAGER: Chelsea Farmer Notes: SAMPLE ID DATE TIME D-102 TO(21/15 15:30	(518) 381-6055 PROJECT#PROJECT NAW 15100544 LOCATION (CITY/STATE) A NY NY REQUIRED TURN AROUND			ARCHI	ARCHIVAL BY RECEIVING LAB	AB
Chelsea, Farm Nicole, Johnso DATE 10/21/15	15100544 LOCATION (CITY/STATE) A NY REQUIRED TURN AROUND		(LAB USE ONLY)	Additional charges incurred t Call for details.	Additional charges incurred for disposal (if hazardous) or archival. Call for details.	archival.
Chelsea.Farm Nicole, Johnso DATE 10/21/15	15100544 LOCATION (CITY/STATE) A NY REQUIRED TURN AROUND		ENTE	R ANALYSIS AND M	ENTER ANALYSIS AND METHOD NUMBER REQUESTED	l I
Chelsea_Farm Nicole_Johnso DATE 10/21/15	NY REQUIRED TURN AROUND		PRESERVATIVE CODE:			PRESERVATIVE KEY
Chelsea. Farm Nicole, Johnso DATE 10/21/15	NY REQUIRED TURN AROUND	DDKESS:	BOTTLE TYPE:			9-1CE
Chelsea_Farm Nicole_Johnso DATE 10/21/15	REQUIRED TURN AROUND		BOILLE SIZE:			7 - HGL 2 - HNO3
Chelsea Farm Nicole, Johnso DATE 10/21/15	REQUIRED TURN AROUND	10/28/1	Security Sec	\ \ \	\ \ \	3 - H2SO4
Chelsea Farm Nicole Johnso DATE 10/21/15		1012772015	~ Og	** EE	2 JAT	4 - NaOH 5 - Zn. Acetate
	Š	Section of the second of the s	05 475 07 5	DOWN OT THE PORT OF THE PORT O	3d d7C	6 - MeOH 7 - NaHSO4
			<u>\</u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/ 8 - Other (Na2SO3)
SAMPLE ID	mo	P P	VIBIN	<i>'</i>		
SAMPLE ID DATE 10/21/15	om GRAB/	SAMPLE ID	\ \ INN		_/ /	
10/21/15	MATRIX COMP	(LAB USE ONLY)				REMARKS:
	O S COMP	AS33401	x x	× ×	×	0 HQ1
_						
1				8		
AMBIENT OR CHILLED: TEMP:	COC TAPE: /Y / N	E	PROPERLY PRESERVED:	N	OTHER NOTES: Analytical Re	OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE
RECEIVED BROKEN OR LEAKING: Y N	COC DISCREPANCIES:	X (N)	RECVD W/I HOLDING TIMES:	N (+)		
	BY,	REMNOUISHED BY	A RECEIVED BY		RELINQUISHED BY	RECEIVED BY
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COMPANY Of COMPANY F	COMPAÑY COMPAÑY	welled	COMBANY Mace-LT	COMPANY	COMPANY	NY
DATE/TIME / 12 //S DATE/TIME	2275 DATELYME	21-1601	DATEITIME IN 2011	DATE/TIME	DATE/TIME	ME



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be compl~<15100344P1>

DRINKING WATER Pace Project No./ Lab I.D. SAMPLE CONDITIONS is the 1882119 OTHER GROUND WATER 10 /CE Residual Chlorine (Y/N) REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) (4:3) Tille TIME NPDES [STATE Site Location DATE TSU 📑 N Clipson ACCEPTED BY (AFFILIATION Analysis Test Other Methanol Preservatives Na₂S₂O₃ HOBN HCI company Name: [€]ONH Section C ace Profile #; [†]OS²H Reference: Pace Project Attention: ace Quote Unpreserved Address: TIME 2017 # OF CONTAINERS SAMPLE TEMP AT COLLECTION DATE TIME COMPOSITE END/GRAB COLLECTED DATE 768,001,00 RELINQUISHED BY / AFFILIATION 5:3 TIME COMPOSITE START DATE Required Project Information: Report To: OLE (G=GRAB C=COMP) Purchase Order No. SAMPLE TYPE raject Name; roject Number (see valid codes to left) Z MATRIX CODE Section B Sopy To: Matrix Codes Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue 1548 (246 R ADDITIONAL COMMENTS (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE SAMPLE ID 10 Ar 112 Section A Required Client Information: Required Client Information Requested Due Date/TAT: nshuffer 102181281 Company: R+L Section D LEW # m ¥ ю 9 ١. ю 6

O° ni qmaT DATE Signed (MM/DD/YY): "Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for SIGNATURE of SAMPLER:

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER:

ORIGINAL

(N/Y) samples lutaci

Custody Sealed Cooler (Y/N)

ice (Y/N) Received on

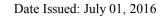
Pace Analytical



Sample Condition Upon Receipt

					۱۱	CLIENT NAME:	Back	A16		ı
-			,		- -	PROJECI :	27			,
COURIER: FedEx UPS COURIER: FedEx	Client	□ ace □	Other							
TRACKING #		CUSTODY	CUSTODY SEAL PRESENT: Yes	IT: Yes 🗆	No N	INTACT: Yes	□ No □		N/A 16	
PACKING MATERIAL: Bubble Wrap	Bubble Bag	ags □	None	Other	¥	ICE USED: Wet	Blue	None	Z a	
THERMOMETER USED: #164 □ IR G	IR Gun 03'图	#122087967	. 067 ⊡	C	DOLER TEM	COOLER TEMPERATURE (°C):	30.56	.	,	
BIOLOGICAL TISSUE IS FROZEN: Yes	No	NAW			μ - .	Temp should be above freezing to 6°C	bove freezing	s to 6°C		
COMMENTS:				Ţ	emperature	Temperature is Acceptable?	. DYes	× ×		
Chain of Custody Present:	A ELYes	ON.		1.						
Chain of Custody Filled Out:	Z Kes	□No		2.						
Chain of Custody Relinquished:	M Yes	o,		3.						
Sampler Name / Signature on COC:	NO Yes	□No		4.						
Samples Arrived within Hold Time:	Yes	□No		5.						
Short Hold Time Analysis (<72hr):	□Yes	X		6.						
Rush Turn Around Time Requested:	W.See	□No		7. ASAP						
Sufficient Volume:) Sees	□No		8.					-	_
Correct Containers Used:	**************************************	SN C	ı	0						
- Pace Containers Used:	, See	ON □								
Containers Intact:	***	ONO		10.						
Filtered volume received for Dissolved tests: □yes	ts: □yes	□No	Š	11.						
Sample Labels match COC:	S.	₽ □		12.						
Includes date/time/ID/Analysis										
All containers needing preservation have been checked:	□Yes	oN □	¥J a vej	13.						
All containers needing preservation are in	□Yes	S U	A TATA							
compliance with EPA recommendation:				Initial when						
- Exceptions that are not checked: TOC, VOA, Subcontract Analyses	ntract Analyses			completed: 🚹	114	Lot # of added preservative:	servative:	NA		
Headspace in VOA Vials (>6mm):	□Yes	e D	¥¥.	14.						
Trip Blank Present:	□Yes	% □		15.						
Trip Blank Custody Seals Present:	□ Yes	№	Ą							
Pace Inp Blank Lot #:										
Sample Receipt form filled in: KeC 10/22/15	٠n	Line-Out (ncludes Cop	ying Shipping	Documents	Line-Out (includes Copying Shipping Documents and verifying sample pH):	mple pH):	0 2 4	122 K	
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Dacument Control# F-NY-C-034-rev.00 (15July2015)





Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

Project ID: ALCO

Sampling Date(s): June 27, 2016 Lab Report ID: 16060565

Client Service Contact: Nick Nicholas (518) 346-4592

Analysis Included:

PCBs E8082A - Sub Pace LI TCLP VOCs E1311/E8260C - Sub Pace LI TCLP SVOCs E1311/E8270D - Sub Pace LI TCLP Herbicide E1311/E8151A - Sub Pace LI TCLP Mercury E1311/E7470A - Sub Pace LI TCLP Metals E1311/E6010C - Sub Pace LI TCLP Pesticide E1311/E8081 - Sub Pace LI

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (460241)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

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Section 5: Subcontract Analysis	.14

1

4

CASE NARRATIVE

CASE NARRATIVE

This data package (SDG ID: 16060565) consists of 1 soil sample received on 06/27/2016. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

 Lab Sample ID
 Client ID
 Collection Date

 AT15893
 D103
 06/27/2016 11:00

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 06/27/2016.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to PCB analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Volatile Organic Compound analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Semi Volatile Organic Compound analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Herbicide analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Mercury analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Metals analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

S:\Lims Data\1606\16060565\Package\CN_16060565_Rev00.doc

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Pesticide analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,

Chelsea L. Farmer Project Manager

QUALIFIERS

Definitions

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- MDL Adjusted Method Detection Limit.
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- PQL Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.
- RL Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- * Value not within control limits.

SAMPLE CHAIN OF CUSTODY

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Pace Analytical*																						•	450565	*** */B/3/8/		
Section A Required Client Information:	Section E		Inform	nation:				lı	Section C Invoice Information: Attention:											1882621						
Company:	Report To:	A	rds	Devib	er			_		$-\rho$	tec	سلا	<u>t</u> ç		م مرجع	H	<u>e</u>	<u> </u>					- L.	706	J 6 da	
Address: 10 Arline Drive Sent	Copy To:	NI	H	2-5	Shar	9-1-			Company Name: Birton and Juyudize The REGULATORY AG									Recipients.								
Alla N4 12205		<u> </u>						P	Liverpool N9/308								NPDE	3 [GR	OUNI	D WAT	ER [DRINKING	3 WATER		
Email To:	Purchase	Order N	No.:						Pace Q Referen			, ,				• ,		Г	UST	Γ	RC	RA		r	OTHER .	
Phone: 5182181801 Fax: 318218 180	Project Na	me:		111)				Pace Pr		Car	U.	4	6	he	2/_		Site	Locati	on	Δ	a	0	The Miles of the Section 1997.		
Requested Due Date/TAT:	Project Nu	mber:		320	-9A/	200	ſ			rofile #:		مكسك)					Milit	STAT	rE:	Δ	<u> </u>	\mathcal{L}			
ASAV					<u>, U, </u>	200				***************************************					Π	Re	quested	Analy	ysis Fi	ltere	d (Y/N)		neyn i jedyl	9-4 .	
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(A-Z, 0-9 / ,-) Air Sample IDs MUST BE UNIQUE Tissue		CODE	SAMPLE TYPE				ļ	TEMP	NTA	Unpreserved H ₂ SO ₄				_	S	20	1000 Still						Ö			
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	ONIGHW	~1. fine				PRINT Na	me of SAMPL	ER:	:	Na	H	1		</td <td>ne</td> <td>The second</td> <td>Ö</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Temp in °C</td> <td>Received on Ice (Y/N)</td> <td>Sustor led Cr</td> <td>ples (Y/N)</td>	ne	The second	Ö						Temp in °C	Received on Ice (Y/N)	Sustor led Cr	ples (Y/N)
						SIGNATII	RE of SAMPI	FR	. ′	N	X	<u>~</u>		1		DA (M	TE Signe M/DD/YY)	d /	12	7/	24	16	Ter	Rec	Seal	Sam
'Importent Note: By signing this form you Pace Analytical Services, Inc.	are acception Pace's	NET 3	0 dav o	ayment terms	and agreeing	to late charg	es of 1.5% per r	mont	th for a	nymvoice	es not	paid w	rithin 30	0 days.		1 (141		4		-			F-ALI	-Q-020rev	.07, 15-Ma	y-2007
Pace Analytical Services, Inc.								J	fuly 0	01, 201	6														160605	65 - Page 10

<16060565P2>



Sample Condition Upon Receipt

CLIENT NAME: PROJECT: Other a Pace 🗆 Clientry UPS a COURIER: FedEx I N/Add No □ CUSTODY SEAL PRESENT: Yes □ INTACT: Yes a No DY TRACKING #_ None ICE USED: Wetk Blue □ Other 🗆 None 🖈 Bubble Bags □ PACKING MATERIAL: Bubble Wrap COOLER TEMPERATURE (°C): THERMOMETER USED: #164 □ IR Gun O3 \$ #160239773 □ #160239773-PRB □ N/A 🛛 No 🗆 BIOLOGICAL TISSUE IS FROZEN: Yes □ Yes Temperature is Acceptable? COMMENTS: Chain of Custody Present: Yes □No Chain of Custody Filled Out: T Yes Hes □No Chain of Custody Relinquished: Sampler Name / Signature on COC: ∐Yes □No Samples Arrived within Hold Time: □No ∯Yes ₫w∘ Short Hold Time Analysis (<72hr): □Yes ASAP Rush Turn Around Time Requested: □No YYes □No Yes Sufficient Volume: □No Correct Containers Used: YYes □No <u> Y</u>es - Pace Containers Used: 10. □No Syes Containers Intact: 11. Filtered volume received for Dissolved tests: □Yes □No A/AID 12. □No Sample Labels match COC: Yes - Includes date/time/ID/Analysis 13. ∕X)N/A □No All containers needing preservation have been □Yes checked: **Æ**ÍN/A □No □Yes All containers needing preservation are in Initial when compliance with EPA recommendation: NIA Lot # of added preservative: completed: NIA - Exceptions that are not checked: TOC, VOA, Subcontract Analyses 14. αVAID≿ □No Headspace in VOA Vials (>6mm): □Yes 15. ØN/A □No Trip Blank Present: □Yes **∑**N/A Trip Blank Custody Seals Present: □No □Yes CUE 4/27/16 Pace Trip Blank Lot #: _ Line-Out (Includes Copying Shipping Documents and verifying sample pH): Sample Receipt form filled in: CUF CUF 6/27/16 Log In (Includes notifying PM of any discrepacies and documenting in LIMS):

Pace Analytical Services, Inc.

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

CLF 6/27/16

SAMPLE RECEIPT



SAMPLE RECEIPT REPORT 16060565

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

COC DISCREPANCY: NO

CLIENT: BARTON AND LOGUIDICE

PROJECT: ALCO LRF: 16060565

REPORT: ANALYTICAL REPORT

EDD: YES

LRF TAT: *72 HOUR*

RECEIVED DATE: 06/27/2016 11:54

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,2}SAMPLES PRESERVED PER METHOD GUIDANCE: YES ³ SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID:

DISPOSAL: BY LAB (45 DAYS) NUMBER OF COOLERS: 1 CUSTODY SEAL INTACT: NA

COOLER STATUS: CHILLED TEMPERATURE(S): 54.6 (IR) °C

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D103 (AT15893)	*72 HOUR* 06-30-16	06/27/2016 11:00	Soil	PCBs E8082A	PCBs E8082A - Sub Pace LI	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP Herb. E1311/E8151A	TCLP Herbicide E1311/E8151A - Sub Pace	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP Mercury E1311/E7470	TCLP Mercury E1311/E7470A - Sub Pace I	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP Metals E1311/E6010C	TCLP Metals E1311/E6010C - Sub Pace LI	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP Pest E1311/E8081	TCLP Pesticide E1311/E8081 - Sub Pace LI	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP SVOCs E1311/E8270l	TCLP SVOCs E1311/E8270D - Sub Pace L	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP VOCs E1311/E8260C	TCLP VOCs E1311/E8260C - Sub Pace LI	

The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.

Reporting Parameters and Lists

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

3 Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it 4 is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

⁶Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

Subcontract Analysis





TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

AT15893

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :6/27/2016 11:00:00 AM :6/28/2016 10:05:00 AM Received

Analytical Method: D2216 :

Collected By CLIENT

LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

Analyst: RL

Type: Soil

Origin:

Analytical Method: S	SW8082A :		Prep M	<u>1ethod:</u> SW3	545A		Prep Date:	6/28/2016 12:46:54 PM	Analyst: JS
Parameter(s)		Results	Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Aroclor 1016		< 37		1	μg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1221		< 75		1	μg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1232		< 37		1	μg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1242		< 37		1	μg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1248		< 37		1	μg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1254		< 37		1	μg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1260		< 37		1	μg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Surr: Decachlorobiphe	nyl	80.9		1	%Rec	Limit	30-150	06/30/2016 11:33 AM	Container-01 of 01
Surr: Tetrachloro-m-xy	lene	58.5		1	%Rec	Limit	30-150	06/30/2016 11:33 AM	Container-01 of 01

Lab No. : 1606Q70-001

Client Sample ID: D103

Parameter(s) **Units** Analyzed: Container: wt% 06/28/2016 3:08 PM Container-01 of 01 Percent Moisture

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 7/1/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Page 1 of 15



575 Broad Hollow Road , Melville, NY 11747

TEL: (631) 694-3040 FAX: (631) 420-8436

NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308 Lab No. : 1606Q70-002

Client Sample ID: D103

receipt at the lab and is responsible only for the tests requested.

LABORATORY RESULTSResults are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before

Sample Information:

Type: Soil

Origin:

Attn To: William A. Kotas

Collected : 6/27/2016 11:00:00 AM

Received : 6/28/2016 10:05:00 AM AT15893 (TCLP)

Collected By CLIENT

Analytical Method: SW1311/827	0D :	Prep I	Method: SW	3510C		Prep Date: 6	/29/2016 6:14:43 PM	Analyst: EAG
Parameter(s)	Results Q	<u>ualifier</u>	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
1,4-Dichlorobenzene	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
2,4,5-Trichlorophenol	< 0.0250		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
2,4,6-Trichlorophenol	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
2,4-Dinitrotoluene	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
2-Methylphenol	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
3-Methylphenol/4-Methylphenol	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Hexachlorobenzene	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Hexachlorobutadiene	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Hexachloroethane	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Nitrobenzene	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Pentachlorophenol	< 0.0250		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Pyridine	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Surr: 1,2-Dichlorobenzene-d4	33.4		1	%Rec	Limit	16-110	06/30/2016 8:09 AM	Container-01 of 03
Surr: 2,4,6-Tribromophenol	70.3		1	%Rec	Limit	10-123	06/30/2016 8:09 AM	Container-01 of 03
Surr: 2-Chlorophenol-d4	35.3		1	%Rec	Limit	33-110	06/30/2016 8:09 AM	Container-01 of 03
Surr: 2-Fluorobiphenyl	41.9	S	1	%Rec	Limit	43-116	06/30/2016 8:09 AM	Container-01 of 03
Surr: 2-Fluorophenol	20.6	S	1	%Rec	Limit	21-110	06/30/2016 8:09 AM	Container-01 of 03
Surr: 4-Terphenyl-d14	65.4		1	%Rec	Limit	33-141	06/30/2016 8:09 AM	Container-01 of 03
Surr: Nitrobenzene-d5	38.4		1	%Rec	Limit	35-114	06/30/2016 8:09 AM	Container-01 of 03
Surr: Phenol-d5	15.1		1	%Rec	Limit	10-110	06/30/2016 8:09 AM	Container-01 of 03
Analytical Method: SW1311/815	1A :	Prep I	Method: SW	1311/8151		Prep Date: 6	/29/2016 9:36:55 AM	Analyst: MJM
Parameter(s)	Results Q	<u>ualifier</u>	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
2,4,5-TP (Silvex)	< 0.0025		1	mg/L			07/01/2016 4:40 AM	Container-01 of 03
2,4-D	< 0.0050		1	mg/L			07/01/2016 4:40 AM	Container-01 of 03
Surr: DCAA	65.9		1	%Rec	Limit	36-121	07/01/2016 4:40 AM	Container-01 of 03
Analytical Method: SW1311/747	0A :	Prep I	Method: SW	7470		Prep Date: 6	/29/2016 5:30:19 PM	Analyst: AG
Parameter(s)	Results Q	<u>ualifier</u>	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Mercury	< 0.200		1	ug/L			06/30/2016 12:16 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported : 7/1/2016

Cathlin Panzarella
Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

Results are only for the samples and analytes requested.

Limit 30-150

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Lab No. : 1606Q70-002

Client Sample ID: D103

Sample Information:

Type: Soil

Origin:

Attn To: William A. Kotas

:6/27/2016 11:00:00 AM

www.pacelabs.com

:6/28/2016 10:05:00 AM

AT15893 (TCLP)

Collected By CLIENT

Collected

Received

Je						
Analytical Method:	SW1311/6010C:	Prep Method: SV	V3005A	Prep D	Pate: 6/29/2016 2:30:00 PM	Analyst: CGZ
Parameter(s)	Results Qu	ualifier D.F.	<u>Units</u>		Analyzed:	Container:
rsenic	< 1.00	1	mg/L		06/30/2016 5:45 AM	Container-01 of 03
Barium	< 10.0	1	mg/L		06/30/2016 5:45 AM	Container-01 of 03
Cadmium	< 0.100	1	mg/L		06/30/2016 5:45 AM	Container-01 of 03
Chromium	< 1.00	1	mg/L		06/30/2016 5:45 AM	Container-01 of 03
.ead	< 1.00	1	mg/L		06/30/2016 5:45 AM	Container-01 of 03
Selenium	< 0.100	1	mg/L		06/30/2016 5:45 AM	Container-01 of 03
Silver	< 1.00	1	mg/L		06/30/2016 5:45 AM	Container-01 of 03
Analytical Method:	SW1311/8081B:	Prep Method: SV	V3510C	Prep D	Date: 6/29/2016 6:08:32 PM	Analyst: JS
Parameter(s)	Results Qu	ualifier D.F.	<u>Units</u>		Analyzed:	Container:
Chlordane	< 0.0020	1	mg/L		06/29/2016 10:44 PM	Container-01 of 03
Endrin	< 0.00020	1	mg/L		06/29/2016 10:44 PM	Container-01 of 03
amma-BHC	< 0.00010	1	mg/L		06/29/2016 10:44 PM	Container-01 of 03
leptachlor	< 0.00010	1	mg/L		06/29/2016 10:44 PM	Container-01 of 03
leptachlor epoxide	< 0.00010	1	mg/L		06/29/2016 10:44 PM	Container-01 of 03
/lethoxychlor	< 0.0010	1	mg/L		06/29/2016 10:44 PM	Container-01 of 03
oxaphene	< 0.010	1	mg/L		06/29/2016 10:44 PM	Container-01 of 03
Surr: Decachlorobipl	nenyl 68.7	1	%Rec	Limit 30-150	06/29/2016 10:44 PM	Container-01 of 03
oxaphene	< 0.010	1 1	mg/L	Limit 30-150		

%Rec

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Surr: Tetrachloro-m-xylene

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

71.4

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 7/1/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

06/29/2016 10:44 PM Container-01 of 03

Test results meet the requirements of NELAC unless otherwise noted.

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TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308 receipt at the lab and is responsible only for the tests requested.

Client Sample ID: D103

Lab No. : 1606Q70-002

LABORATORY RESULTS Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before

Sample Information:

Type: Soil

Origin:

Attn To: William A. Kotas

Collected :6/27/2016 11:00:00 AM

AT15893 (TCLP) :6/28/2016 10:05:00 AM

Collected By CLIENT

Received

Collected By CEIENT									
Analytical Method:	SW1311/8260C:					Prep Date: 6/28	3/2016 8:28:08 PM	Analyst:	MF
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Contair	ner:
1,1-Dichloroethene	< 0.010)	1	mg/L			06/30/2016 12:26 PM	Container	-01 of 03
1,2-Dichloroethane	< 0.010)	1	mg/L			06/30/2016 12:26 PM	Container	-01 of 03
1,4-Dichlorobenzene	< 0.010)	1	mg/L			06/30/2016 12:26 PM	Container	-01 of 03
2-Butanone	< 0.010)	1	mg/L			06/30/2016 12:26 PM	Container	-01 of 03
Benzene	< 0.010)	1	mg/L			06/30/2016 12:26 PM	Container	-01 of 03
Carbon tetrachloride	< 0.010)	1	mg/L			06/30/2016 12:26 PM	Container	-01 of 03
Chlorobenzene	< 0.010)	1	mg/L			06/30/2016 12:26 PM	Container	-01 of 03
Chloroform	< 0.010)	1	mg/L			06/30/2016 12:26 PM	Container	-01 of 03
Tetrachloroethene	< 0.010)	1	mg/L			06/30/2016 12:26 PM	Container	-01 of 03
Trichloroethene	< 0.010)	1	mg/L			06/30/2016 12:26 PM	Container	-01 of 03
Vinyl chloride	< 0.010)	1	mg/L			06/30/2016 12:26 PM	Container	-01 of 03
Surr: 1,2-dichloroeth	ane-d4 81.1		1	%Rec	Limit	53-183	06/30/2016 12:26 PM	Container	-01 of 03
Surr: 4-Bromofluorob	enzene 88.5	,	1	%Rec	Limit	63-140	06/30/2016 12:26 PM	Container	-01 of 03
Surr: Toluene-d8	84.8	,	1	%Rec	Limit	60-135	06/30/2016 12:26 PM	Container	-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

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c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 7/1/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Website: www.pacelabs.com

QC SUMMARY REPORT

WO#:

1606Q70

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** 56778

Sample ID mb-56778	SampType: mblk	TestCode: 80	082_s	Units: µg/Kg		Prep Da	te: 6/28/2	016	RunNo: 10	0928	
Client ID: PBS	Batch ID: 56778	TestNo: S	W8082	SW3545	Analysis Date: 6/29/2016			SeqNo: 2220922			
Analyte	Result	PQL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	< 33	33									
Aroclor 1221	< 67	67									
Aroclor 1232	< 33	33									
Aroclor 1242	< 33	33									
Aroclor 1248	< 33	33									
Aroclor 1254	< 33	33									
Aroclor 1260	< 33	33									
Surr: Tetrachloro-m-xylene	9.0		13.33		67.4	30	150				
Surr: Decachlorobiphenyl	11		13.33		79.8	30	150				

Sample ID Ifb2-56778	SampType: Ifb	TestCod	TestCode: 8082_s U		Prep Date: 6/28/2016			16	RunNo: 100928		
Client ID: ZZZZZZ	Batch ID: 56778	TestN	TestNo: SW8082 SW3545			Analysis Dat	e: 6/29/20	16	SeqNo: 2220923		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	120	33	166.7	0	70.8	50	136				
Aroclor 1260	130	33	166.7	0	80.5	45	154				
Surr: Tetrachloro-m-xylene	9.4		13.33		70.7	30	150				
Surr: Decachlorobiphenyl	11		13.33		81.0	30	150				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits

Page 5 of 15



PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

TEL: (631) 694-3040 FAX: (631) 420-8436

Website: www.pacelabs.com

QC SUMMARY REPORT

1606Q70 WO#:

01-Jul-16

Pace Analytical Services Inc. **Client:**

16060565 - 1368.001 **Project: BatchID:** 56778

Sample ID mb-56778	SampType: mblk	TestCode: 8082_s	Units: µg/Kg	Prep D	ate: 6/28/2016	RunNo: 100819	
Client ID: PBS	Batch ID: 56778	TestNo: SW8082	SW3545	Analysis D	ate: 6/29/2016	SeqNo: 2219696	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Aroclor 1016	< 33	33					
Aroclor 1221	< 67	67					
Aroclor 1232	< 33	33					
Aroclor 1242	< 33	33					
Aroclor 1248	< 33	33					
Aroclor 1254	< 33	33					
Aroclor 1260	< 33	33					
Surr: Tetrachloro-m-xylene	7.3	13.33		54.4 30	150		
Surr: Decachlorobiphenyl	8.7	13.33		65.5 30	150		

Sample ID LFB2-56778	SampType: Ifb	TestCoo	de: 8082_s	Units: µg/Kg	Prep Date: 6/28/2016			16	RunNo: 100819		
Client ID: ZZZZZZ	Batch ID: 56778	TestN	TestNo: SW8082 SW3545			Analysis Dat	e: 6/29/20	16	SeqNo: 2219697		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	120	33	166.7	0	69.4	50	136				
Aroclor 1260	120	33	166.7	0	70.7	45	154				
Surr: Tetrachloro-m-xylene	8.3		13.33		62.2	30	150				
Surr: Decachlorobiphenyl	10		13.33		75.4	30	150				

\sim	1 * **	
(lina	lifiers:	

- Value exceeds Maximum Contaminant Level
- Η Holding times for preparation or analysis exceeded
- RSD is greater than RSDlimit
- Spike Recovery outside accepted recovery limits
- Dilution was required.
- Manual Integration used to determine area response
- Second column confirmation exceeds
- Sample container temperature is out of limit as specified
- Value above quantitation range
- Not Detected at the Reporting Limit
 - RPD outside accepted recovery limits

Page 6 of 15



Website: www.pacelabs.com

QC SUMMARY REPORT

WO#:

1606Q70

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** 56801

Sample ID mb-56801	SampType: mblk	TestCode: 1311_h	Units: mg/L		Prep Dat	te: 6/29/20	16	RunNo: 10		
Client ID: PBW	Batch ID: 56801	TestNo: SW1311/8	151 SW1311/8151		Analysis Dat	te: 7/1/201	6	SeqNo: 2223552		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	< 0.0050	0.0050								
2,4,5-TP (Silvex)	< 0.0025	0.0025								
Surr: DCAA	0.059	0.1000		58.5	36	121				

Sample ID Ifb-56801 Client ID: ZZZZZZ	SampType: Ifb Batch ID: 56801		de: 1311_h lo: SW1311/8	Units: mg/L 151 SW1311/8151	Prep Date: 6/29/2016 Analysis Date: 7/1/2016				RunNo: 10 ⁴ SeqNo: 22 ²		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	0.012	0.0050	0.02000	0	61.9	47	152				
2,4,5-TP (Silvex)	0.0063	0.0025	0.01000	0	63.3	44	157				
Surr: DCAA	0.033		0.1000		32.7	36	121				S

Sample ID METHCHK-56801	SampType: Ifb	TestCode: 1311_h		Units: mg/L	Prep Date: 6/29/2016				RunNo: 101041			
Client ID: ZZZZZZ	Batch ID: 56801	TestNo: SW1311/8151 SW1311/8			1/8151 Analysis Date: 7/1/2016					SeqNo: 2223554		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
2,4-D	0.017	0.0050	0.02000	0	87.4	47	152					
2,4,5-TP (Silvex)	0.0083	0.0025	0.01000	0	82.9	44	157					
Surr: DCAA	0.081		0.1000		80.7	36	121					

Qualifiers:	*	Value e	ceeds l	Maximum	Contaminan	t Level
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H Holding times for preparation or analysis exceeded

O RSD is greater than RSDlimit

S Spike Recovery outside accepted recovery limits

- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified

E Value above quantitation range

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

TEL: (631) 694-3040 FAX: (631) 420-8436 Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1606Q70**

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** 56815

Sample ID MB-56815 Client ID: PBW	SampType: MBLK Batch ID: 56815	TestCode: 1311_M TestNo: SW1311 /	Units: mg/L	Prep Date: 6/29/2016 Analysis Date: 6/30/2016	RunNo: 100932 SegNo: 2220904
	20.02. 00010			,, o.o 2 a.o	304.10. 222001
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Arsenic	< 1.00	1.00			
Barium	< 10.0	10.0			
Cadmium	< 0.100	0.100			
Chromium	< 1.00	1.00			
Lead	< 1.00	1.00			
Selenium	< 0.100	0.100			
Silver	< 1.00	1.00			

Sample ID LCS-56815	SampType: LCS	TestCod	le: 1311_M	Units: mg/L		Prep Da	te: 6/29/20	16	RunNo: 100	0932	
Client ID: LCSW	Batch ID: 56815	TestN	lo: SW1311 /6	010 SW3010A		Analysis Da	te: 6/30/2 0	116	SeqNo: 222	20910	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 1.00	1.00	0.5000	0	108	80	120				
Barium	< 10.0	10.0	2.500	0	113	80	120				
Cadmium	2.68	0.100	2.500	0	107	80	120				
Chromium	2.76	1.00	2.500	0	110	80	120				
Lead	< 1.00	1.00	0.5000	0	110	80	120				
Selenium	0.548	0.100	0.5000	0	110	80	120				
Silver	< 1.00	1.00	1.000	0	99.3	80	120				

Oualifiers:	*	Value exceeds	Maximum	Contaminant Level
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H Holding times for preparation or analysis exceeded

O RSD is greater than RSDlimit

S Spike Recovery outside accepted recovery limits

D Dilution was required.

M Manual Integration used to determine area response

P Second column confirmation exceeds

W Sample container temperature is out of limit as specified

E Value above quantitation range

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Page 8 of 15





QC SUMMARY REPORT

WO#:

1606Q70

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** 56817

Website: www.pacelabs.com

Sample ID MB-56817 Client ID: PBW	SampType: MBLK Batch ID: 56817	TestCode: 1311_HG	Prep Date: 6/29/2016 Analysis Date: 6/30/2016	RunNo: 100940 SeqNo: 2220982
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury	< 0.200	0.200		

Sample ID LCS-56817 Client ID: LCSW	SampType: LCS Batch ID: 56817		de: 1311_HG lo: SW1311/7	Units: ug/L 470 SW7470		•	te: 6/29/2016 te: 6/30/2016		RunNo: 100 SeqNo: 222		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit R	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.992	0.200	1.000	0	99.2	80	120				

Qualifiers: * Value exceeds Maximum Contaminant Level

H Holding times for preparation or analysis exceeded

O RSD is greater than RSDlimit

S Spike Recovery outside accepted recovery limits

Dilution was required.

M Manual Integration used to determine area response

P Second column confirmation exceeds

W Sample container temperature is out of limit as specified

E Value above quantitation range

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Page 9 of 15



Website: www.pacelabs.com

QC SUMMARY REPORT

WO#:

1606Q70

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** 56822

Sample ID mb-56822	SampType: mblk	TestCoo	de: 1311_p	Units: mg/L		Prep Dat	te: 6/29/2 0	016	RunNo: 100	948	
Client ID: PBW	Batch ID: 56822	TestN	lo: SW1311/8	081 SW3510C		Analysis Dat	te: 6/29/2 0	016	SeqNo: 222	21155	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-BHC	< 0.00010	0.00010									
Heptachlor	< 0.00010	0.00010									
Heptachlor epoxide	< 0.00010	0.00010									
Endrin	< 0.00020	0.00020									
Methoxychlor	< 0.0010	0.0010									
Toxaphene	< 0.010	0.010									
Chlordane	< 0.0020	0.0020									
Surr: Tetrachloro-m-xylene	0.00030		0.0004000		75.0	30	150				
Surr: Decachlorobiphenyl	0.00037		0.0004000		91.8	30	150				

Sample ID Ifb-56822	SampType: Ifb	TestCod	de: 1311_p	Units: mg/L		Prep Dat	e: 6/29/2016	RunNo: 100948	
Client ID: ZZZZZZ	Batch ID: 56822	TestN	lo: SW1311 /8	081 SW3510C		Analysis Dat	te: 6/29/2016	SeqNo: 2221156	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Va	al %RPD RPDLimit	Qual
gamma-BHC	0.00075	0.00010	0.0080000	0	93.7	27	146		
Heptachlor	0.00076	0.00010	0.008000	0	94.5	10	148		
Heptachlor epoxide	0.00076	0.00010	0.008000	0	94.4	28	144		
Endrin	0.00075	0.00020	0.0080000	0	94.2	22	152		
Methoxychlor	< 0.0010	0.0010	0.008000	0	103	19	146		
Surr: Tetrachloro-m-xylene	0.00031		0.0004000		78.6	30	150		
Surr: Decachlorobiphenyl	0.00037		0.0004000		92.8	30	150		

Oualifiers: *		Value exceeds	Maximum	Contaminant Level
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Holding times for preparation or analysis exceeded

O RSD is greater than RSDlimit

S Spike Recovery outside accepted recovery limits

- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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Website: www.pacelabs.com

QC SUMMARY REPORT

WO#:

1606Q70

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** 56822

Sample ID Ifb3-56822	SampType: Ifb	TestCod	le: 1311_p	Units: mg/L		Prep Da	te: 6/29/2 0)16	RunNo: 100	948	
Client ID: ZZZZZZ	Batch ID: 56822	TestN	lo: SW1311/8	081 SW3510C		Analysis Da	te: 6/29/2 0)16	SeqNo: 222	21157	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toxaphene	0.026	0.010	0.04000	0	64.5	46	168				Е
Surr: Tetrachloro-m-xylene	0.00032		0.0004000		80.4	30	150				
Surr: Decachlorobiphenyl	0.00040		0.0004000		101	30	150				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
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- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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Website: www.pacelabs.com

QC SUMMARY REPORT

WO#:

1606Q70

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** 56823

Sample ID MB-56823	SampType: MBLK	TestCor	de: 1311_B	Units: mg/L		Prep Date	te: 6/29/20	J16	RunNo: 10	0912	
Client ID: PBW	Batch ID: 56823	TestN	No: SW1311/ 8	8270 SW3520C		Analysis Date	te: 6/30/20	J16	SeqNo: 22	20348	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine	< 0.0100	0.0100									
1,4-Dichlorobenzene	< 0.0100	0.0100									
2-Methylphenol	< 0.0100	0.0100									
3-Methylphenol/4-Methylphenol	< 0.0100	0.0100									
Hexachloroethane	< 0.0100	0.0100									
Nitrobenzene	< 0.0100	0.0100									
Hexachlorobutadiene	< 0.0100	0.0100									
2,4,6-Trichlorophenol	< 0.0100	0.0100									
2,4,5-Trichlorophenol	< 0.0250	0.0250									
2,4-Dinitrotoluene	< 0.0100	0.0100									
Hexachlorobenzene	< 0.0100	0.0100									
Pentachlorophenol	< 0.0250	0.0250									
Surr: 2-Fluorophenol	0.0159		0.07500		21.2	21	110				
Surr: Nitrobenzene-d5	0.0255		0.05000		51.1	35	114				
Surr: Phenol-d5	0.0116		0.07500		15.4	10	110				
Surr: 2,4,6-Tribromophenol	0.0441		0.07500		58.7	10	123				
Surr: 2-Fluorobiphenyl	0.0235		0.05000		47.1	43	116				
Surr: 4-Terphenyl-d14	0.0349		0.05000		69.8	33	141				
Surr: 2-Chlorophenol-d4	0.0319		0.07500		42.5	33	110				
Surr: 1,2-Dichlorobenzene-d4	0.0218		0.05000		43.6	16	110				
Sample ID LFB-56823	SampType: LFB	TestCo	ode: 1311 B	Units: mg/L		Prep Date	te: 6/29/20	016	RunNo: 10	0912	

Sample ID LFB-56823	SampType: LFB	TestCode: 1311_B	Units: mg/L	Prep Date:	6/29/2016	RunNo: 100912	
Client ID: ZZZZZZ	Batch ID: 56823	TestNo: SW1311/8270	SW3520C	Analysis Date:	6/30/2016	SeqNo: 2220349	
Analyte	Result	PQL SPK value SP	K Ref Val %R	EC LowLimit Hiç	ghLimit RPD Ref Val	%RPD RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
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- ND Not Detected at the Reporting Limit
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Website: www.pacelabs.com

QC SUMMARY REPORT

WO#:

1606Q70

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** 56823

Sample ID LFB-56823	SampType: LFB	TestCo	ode: 1311_B	Units: mg/L		Prep Date	e: 6/29/20	16	RunNo: 10	0912	
Client ID: ZZZZZZ	Batch ID: 56823	Test	No: SW1311 /8	3270 SW3520C		Analysis Date	e: 6/30/20	16	SeqNo: 22	20349	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine	0.0170	0.0100	0.05000	0	34.1	12	81.6				
1,4-Dichlorobenzene	0.0262	0.0100	0.05000	0	52.5	38	116				
2-Methylphenol	0.0200	0.0100	0.05000	0	40.0	27	141				
3-Methylphenol/4-Methylphenol	0.0339	0.0100	0.1000	0	33.9	15	141				
Hexachloroethane	0.0234	0.0100	0.05000	0	46.9	39	111				
Nitrobenzene	0.0337	0.0100	0.05000	0	67.4	39	129				
Hexachlorobutadiene	0.0257	0.0100	0.05000	0	51.5	49	115				
2,4,6-Trichlorophenol	0.0385	0.0100	0.05000	0	76.9	37	133				
2,4,5-Trichlorophenol	0.0423	0.0250	0.05000	0	84.5	16	148				
2,4-Dinitrotoluene	0.0364	0.0100	0.05000	0	72.8	46	118				
Hexachlorobenzene	0.0366	0.0100	0.05000	0	73.2	55	127				
Pentachlorophenol	0.0415	0.0250	0.05000	0	82.9	13	123				
Surr: 2-Fluorophenol	0.0141		0.07500		18.8	21	110				S
Surr: Nitrobenzene-d5	0.0297		0.05000		59.4	35	114				
Surr: Phenol-d5	0.00973		0.07500		13.0	10	110				
Surr: 2,4,6-Tribromophenol	0.0537		0.07500		71.6	10	123				
Surr: 2-Fluorobiphenyl	0.0280		0.05000		56.0	43	116				
Surr: 4-Terphenyl-d14	0.0401		0.05000		80.1	33	141				
Surr: 2-Chlorophenol-d4	0.0342		0.07500		45.5	33	110				
Surr: 1,2-Dichlorobenzene-d4	0.0228		0.05000		45.5	16	110				

Qualifiers:
Qualifici 5.

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

Sample Receipt Checklist

TEL: (631) 694-3040 FAX: (631) 420-8436 Website: <u>www.pacelabs.com</u>

Client Name PACE-NY			Date and 1	Time Received:	6/28/2016 10:05:00 AM
Work Order Number: 1606Q70 RcptNo	o: 1		Received I	oy Paige Dohe	rty
Completed by: Paige Dohard		Review	ed by: Ca	thin I	anzarella
Completed Date: <u>6/28/2016 10:33:51 AM</u>		Review	ed Date:	6/30/201	6 2:32:28 PM
Carrier name: <u>FedEx</u>					
Chain of custody present? Chain of custody signed when relinquished and received Chain of custody agrees with sample labels? Are matrices correctly identified on Chain of custody? Is it clear what analyses were requested? Custody seals intact on sample bottles?	Yes Yes Yes Yes Yes Yes Yes Yes	Y Y Y Y Y	No	Not Present	✓
Samples in proper container/bottle? Were correct preservatives used and noted? Preservative added to bottles:	Yes Yes	✓	No \square	NA	
Sample Condition? Sufficient sample volume for indicated test? Were container labels complete (ID, Pres, Date)? All samples received within holding time?	Intact Yes Yes Yes	>	Broken	Leaking	
Was an attempt made to cool the samples? All samples received at a temp. of > 0° C to 6.0° C? Response when temperature is outside of range:	Yes Yes	>	No 🗌 No 🗆	NA NA	
Sample Temp. taken and recorded upon receipt? Water - Were bubbles absent in VOC vials? Water - Was there Chlorine Present? Water - pH acceptable upon receipt? Are Samples considered acceptable?	Yes Yes Yes Yes Yes		No	To 2 No Vials NA No Water	.4 °
Custody Seals present? Airbill or Sticker? Airbill No:	Yes Air Bil 6903 0	✓ ✓ 826 208		Not Present	
Any No response should be detailed in the comments s	section below, if appl	SAS	S: 	- — — — -	
Client Contacted? Yes No No NA Contact Mode: Phone: Fax: Client Instructions: Date Contacted: Regarding: Comments:	Person Contacted By:	acted:	In Person:		
CorrectiveAction:					



WorkOrder: 1606Q70

Certifications

STATE	CERTIFICATION#
NEW YORK	1 0478
NEWJERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS ETTS	MNY026
NEW HAMPS HIRE	2987
RHODE IS LAND	LAO00340
PENNS YLVANIA	68-00350

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Yace-LI

CHAIN OF CUSTODY RECORD	USTODY R	ECOR	0 -	PAGE 1 OF 1		DISPOS	AL REQUIR	EQUIREMENTS: (To RETURN TO CLIENT	DISPOSAL REQUIREMENTS: (To be filled in by Client) RETURN TO CLIENT	nt)
Pace Analytical Services, Inc. 2190 Technology Drive, Schenectady, NY 12308	cal Serv i e, Schenecta	ices, l dy, NY 1	nc. 2308	LRF # 16060565			DISPC ARCH	DISPOSAL BY RECEIVING LAB ARCHIVAL BY RECEIVING LAB	ING LAB ING LAB	
Telephone (518) 346- www.pacelabs.com	4592 Fax (518) 381	-6055			Additional char Call for details.	charges incurred ails.	Additional charges incurred for disposal (if hazardous) or archival. Call for details.	ous) or archival.	
CLIENT (REPORTS TO BE SENT TO):		PROJECT#/PF	PROJECT#/PROJECT NAME:		Ē	TER ANA	YSIS AND M	ENTER ANALYSIS AND METHOD NUMBER REQUESTED	REQUESTED	
PACE		1606056	16060565		PRESERVATIVE CODE:				PRE	PRESERVATIVE KEY
		LOCATION (C	ITY/STATE) AD	ORESS:	BOTTLE TYPE.				0 - KE	뜅
PROJECT MANAGER:		ı			BOTTLE SIZE:				1-1	1 - HCL
Nick Nicholas		ž						~ %0	2-1	2 - HNO3 3 - H2SO4
Project:	1368.001		REQUIRED TURN AROUND TIME:	ME: 6/30/2016	BNIATN	3 E	CS E13	11/E8081		4 - NaOH 5 - Zn. Acetate
Notes:		т	7	116 CW	(83 <u>)</u>	204	24-	S PAO	_	6 - MeOH
		NAME OF CO	NAME OF COURIER (IF USED):); (e) 20/16/	\$80 ₄		_	A A JOY		7 - NaHSO4 8 - Other (Na2SO3)
ELECTRONIC RESULTS nic	nicholas.nicholas@pacelabs.com	шоо		LAB	<u></u>	\	\ \	_		
N	Nicole Johnson@pacelabs.com	Æ	GRAB/	SAMPLE ID	\ \ \ !!!!	_	_	\ \		
SAMPLE ID	DATE TIME	MATRIX	COMP	(LAB USE ONLY)			\forall		REMARKS	(S:
D103	6/27/16 11:00	S	COMP	AT15893	x x	×	×	×		
									((S) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	<u> </u>
	-									
						,				
						(
AMBIENT OR CHILLED: TE	TEMP: 2, 4	COC TAPE:	$\left\langle \right\rangle$		PROPERLY PRESERVED:			OTHER NOTES: An	OTHER NOTES: Analytical Report (LEVEL-2) EDD: EQUIS-DEC-DE	D: EQUIS-DEC-DE
R LEAKING:	\(\N\)	COC DISCREPANCIES:	ANCIES:	Y (N)	RECVD W/I HOLDING TIMES:	3	z			
RELINQUISHED BY	RECEIVED B)	9,		RELINQUISHED BY	RECEIVED BY) (RELINQUISHED BY	RECEIVED BY	BY
SIGNATURE	SIGNATURE	- X	SIGNATURE	^	SIGNATURE OF THE		SIGNATURE		SIGNATORE	
PRINTED NAME Var and	PRINTED NAME		PRINTED NAME		PRINTED PLANE -	# 1.7 W	PRINTED NAME		PRINTED NAME	
ڒ	COMPANY		COMPANY		CONFRANT MILLE	<i>J</i> +	COMPANY		COMPANY	
S. 21 01/10/27/27	DATE/TIME		DATE/TIME		DATE/TIME / 6/28	116	DATE/TIME		DATE/TIME	
31						30:01				SYLOGINWIDLCOCS

SAMPLER NAME AND SIGNATURE

OFIGINAL

PRINT Name of SAMPLER: SIGNATURE of SAMPLER:

Samples Intact (V/V)

Custody Sealed Cooler (Y/N)

(N/Y) eat

Received on

O° ni qmeT

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Project No./ Lab I.D. DRINKING WATER SAMPLE CONDITIONS OTHER するというの子 GROUND WATER 11:54 H. (2) Residual Chlorine (Y/N) Page: を言うなら REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) TIME STATE: Site Location NPDES DATE UST ACCEPTED BY / AFFILIATION ŤN/A sisylsnA1 Methanol Attention: Accounty Preservatives $Na_2S_2O_3$ HOBN HCI invoice Information: Company Name: Address: 443 €ОИН ^ӯOS^ℤH Section C ace Quote Unpreserved TIME # OF CONTAINERS SAMPLE TEMP AT COLLECTION 1/22/18 DATE TIME COMPOSITE END/GRAB COLLECTED DATE RELINQUISHED BY/ AFFILIATION TIME COMPOSITE START DATE Required Project Information: urchase Order No.: (G=GRAB C=COMP) SAMPLE TYPE Project Number: (see valid codes to left) MATRIX CODE Project Name: Section B Report To: Sopy To: Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other 1 Straffel Wartwoodleget 1. F18218 1805 Company got of the languable Deliverables 412205 ADDITIONAL COMMENTS (A-Z, 0-9/ ,-) Sample IDs MUSTBE UNIQUE SAMPLE ID Section A Required Client Information: Required Client Information 10 17/10 Section D φ ۲. 00 Q 10

Pace Analytical Services, Inc. July 01, 2016 16060565 - Page 31 of 32

<16060565P2>

CLIENT NAME:

Blue 🔍 INTACT: Yes a ICE USED: Wet) COOLER TEMPERATURE (°C): No A Other \square CUSTODY SEAL PRESENT: Yes Other a THERMOMETER USED: #164 □ IR Gun O3 4 #160239773 □ #160239773-PRB □ None M Pace 🗆 Bubble Bags Clienty N 0 PACKING MATERIAL: Bubble Wrap BIOLOGICAL TISSUE IS FROZEN: Yes UPS COURIER: FedEx TRACKING#

None 🗆 N/A

0 9 8

Ž Temperature is Acceptable? COMMMENTS:

Chain of Custody Present:	⊊ ives	ONO		1.	
Chain of Custody Filled Out:	∰ ¥es	No.		2.	
Chain of Custody Relinquished:	W res	ON .		3.	
Sampler Name / Signature on COC:	Ĵ¥es	% □	*	4.	
Samples Arrived within Hold Time:	√∯ Yes	ONO		5.	
Short Hold Time Analysis (<72hr):	□Yes	S S		9.	
Rush Turn Around Time Requested:	Tres	oN 🗆		7. ASAV	
Sufficient Volume:	* Yes	ON D		- 6	
Correct Containers Used:	Z d Yes	oN □	I	6	
- Pace Containers Used:	¥Ωχes	% C	·		
Containers Intact:	M Yes	□No		10.	
Filtered volume received for Dissolved tests: Oves	S: Uyes	NO NO	KAINA	11.	
Sample Labels match COC:	(M) (es	§ _	-	12.	
- Includes date/time/ID/Analysis					
All containers needing preservation have been	□Yes	°N □	ØN/A	13.	
checked:					
All containers needing preservation are in	□Yes	s D	ZY WA		
compliance with EPA recommendation:		-		Initial when	
- Exceptions that are not checked: TOC, VOA, Subcontract Analyses	itract Analyses			completed:	Lot # of added preservative:
Headspace in VOA Vials (>6mm):	□Yes	% □	ZŽINIA	14.	
Trip Blank Present:	□ Yes	₽ □	ZJNA	15.	
Trip Blank Custody Seals Present:	□Yes	N 	KIN'A ANNA		
Pace Trip Blank Lot #:			,		
			-		

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): Line-Out (Includes Copying Shipping Documents and verifying sample pH):

Sample Receipt form filled in: