



Lewis S. Streeter
Senior Project Manager

GE Corporate, OneEHS
1 River Road, Bldg 5 – 7W
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January 28, 2019

Joseph Battipaglia
United States Environmental Protection Agency, Region II
Hudson River Field Office
187 Wolf Road, Suite 303
Albany New York 12205
(*electronic copy via email*)

David Rosoff
Removal Action Branch
Emergency and Remedial Response Division
United States Environmental Protection Agency, Region II
2890 Woodbridge Avenue
Building 205 (MS-211)
Edison, New Jersey 08837
(*electronic copy via email*)

**Subject: Mercury and PCB Minimization Program Reports
Dewey Loeffel Landfill Superfund Site
Removal Order (Index No. CERCLA 02-2012-2005)
Nassau, New York**

Dear Mr. Battipaglia and Mr. Rosoff:

Attached please find the referenced reports prepared by Arcadis of New York, Inc. on behalf of the General Electric Company and SI Group, Inc., (GE and SI Group are Respondents for the Dewey Loeffel Landfill Superfund Site). The activities described in each report are based on the Mercury and Polychlorinated Biphenyl Minimization Program Plans which were submitted to the United States Environmental Protection Agency (USEPA) on November 12, 2013 and approved by USEPA on November 29, 2013. These Minimization Program Plans were developed in accordance with the substantive requirements issued by the New York State Department of Environmental Conservation and are incorporated into the Design Report/Implementation Plan (DR/IP) for the referenced Site. The activities associated with each minimization program are described in Appendix B of the DR/IP.

Please contact me if you have any questions regarding the attached reports.

Sincerely,

Lewis S. Streeter
Senior Project Manager

January 28, 2019

Page 2

Enclosures: 2018 Annual Reports; Mercury Minimization Program and PCB Minimization Program

cc:

Sharon Kivowitz, Esq.
New York/Caribbean Superfund Branch
Office of Regional Counsel
United States Environmental Protection Agency Region II
290 Broadway, 17th Floor
New York, New York 10007-1866
(via email)

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau B
625 Broadway, 12th Floor
Albany, New York 12233-7016
Attn: Mr. Michael Komoroske, Janet E. Brown, Kyle Forster
(via email)

Derek Thorsland
Regional Water Engineer
New York State Department of Environmental Conservation
1150 N. Westcott Road
Schenectady, New York 12306-2014
(via email)

Juliana Atmadja, Louis Berger *(via email)*
Amy Darpinian, USA CoE *(via email)*
Keith Cowan, Clough Harbour *(via email)*
Charles Gardner, SI Group *(via email)*
Eric Merrifield, Esq., GE *(via email)*
Kevin Mooney, GE *(via email)*
Don Sauda, Arcadis *(via email)*
P.J. Hart, Arcadis *(via email)*
Paul Hare, OBG *(via email)*
Jesse Vollick, OBG, *(via email)*
Bill Callen, Behan Communications *(via email)*

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Arcadis of New York, Inc.
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110 West Fayette Street
Suite 300
Syracuse
New York 13202
Tel 315 446 9120
www.arcadis.com

Subject:
2018 Annual Report
Mercury Minimization Program
Dewey Loeffel Landfill Superfund Site
Nassau, New York

Environment

Date:
January 28, 2019

Dear Mr. Streeter:

Contact:
Donald Sauda, P.E.

This 2018 Annual Report has been prepared by Arcadis of New York, Inc. (Arcadis) to summarize activities performed under the Mercury Minimization Program (MMP) that was developed in accordance with the substantive requirements issued by the New York State Department of Environmental Conservation (NYSDEC) and incorporated into the Design Report/ Implementation Plan (DR/IP) for the Dewey Loeffel Landfill Superfund Site (Site) in Nassau, New York. The activities described herein are based on the MMP Plans submitted to the United States Environmental Protection Agency (USEPA) on November 12, 2013, which was approved by USEPA on November 29, 2013.

Phone:
315.447.2612

Email:
Donald.sauda@arcadis.com

Our ref:
B0031174

BACKGROUND

The treatment system at the Site was started up in December 2013. The influent to the treatment system consists of leachate removed from the existing underground leachate collection tank on the landfill and groundwater from the eight extraction wells (i.e., EW-1 through EW-8) located to the south of the landfill. The treatment system is primarily designed to address volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) in the extracted groundwater and landfill leachate prior to discharge to the Valatie Kill. However, treatment of mercury, if present, may occur as particulates are removed by bag filters and via adsorption in two liquid-phase granular activated carbon (GAC) units.

2018 QUARTERLY SAMPLING AND ANALYTICAL ACTIVITIES

In accordance with the MMP, quarterly sampling was initiated when direct discharge to the Valatie Kill began in December 2014. Grab samples were collected on March 14, May 30, August 8, and November 7, 2018. All samples were collected and analyzed in accordance with USEPA Methods 1669/1631. USEPA Method 1631 is an ultra-sensitive laboratory analytical procedure to detect very low levels of mercury to about 1 nanograms per liter (ng/L), equivalent to parts per trillion (ppt). These grab samples were collected of the combined flow from all operating extraction wells, treatment system influent, and treatment system effluent. These sample locations are shown on Figure 1 in Attachment A. All samples were packed in a cooler with ice for delivery using standard chain-of-custody (COC) procedures to Pace Analytical Services, Inc. (Pace) of Schenectady, New York, who subcontracted the mercury analysis to ALS Environmental, Inc. (ALS) in Rochester, New York. Due to an instrument issue at ALS in Rochester, the analyses were performed at ALS in Middletown, Pennsylvania. The mercury concentrations in ng/L are summarized below.

Sample Description	3/14/18	5/30/18	8/8/18	11/7/18
Landfill Leachate	NS*	NS*	NS*	NS*
Combined Extraction Wells	2.9	19.5	8.9	0.26 J**
Treatment System Influent Tank	85.7	92.2	54.5	121
Treatment System Effluent	<0.5	0.22 J**	0.53	0.22 J**

*During the March 14, May 30, August 8 and November 7, 2018 sampling events, the landfill leachate sample was not collected due to no flow from the leachate tank.

**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).

Analytical results (Form 1s) for the mercury data are included in Attachment B. These data are also included in Monthly Progress Reports and full laboratory reports that are submitted monthly to USEPA.

2019 SAMPLING AND ANALYTICAL ACTIVITIES

In accordance with the MMP, quarterly sampling in 2019 will be conducted at the same locations as in 2018. All samples will be collected and analyzed for mercury by USEPA Methods 1669/1631. The 2019 Annual Report will be submitted to USEPA by January 31, 2020.

If you have any questions, please contact me at 315 447 2612.

Mr. Lewis Streeter
January 28, 2019

Sincerely,

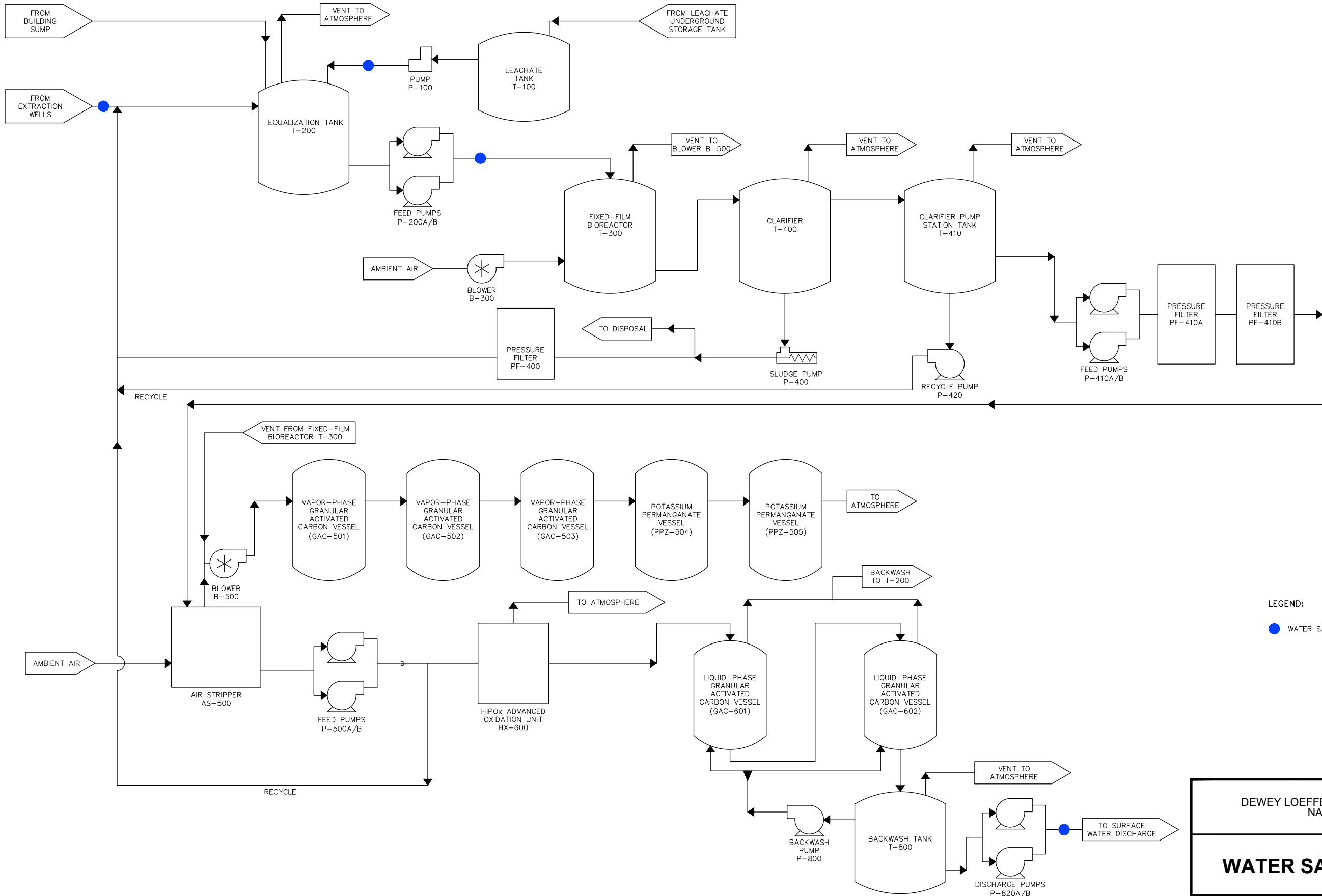
Arcadis of New York, Inc.

A handwritten signature in dark ink, appearing to read "Donald F. Sauda", with a long horizontal flourish extending to the right.

Donald Sauda, P.E.
Vice President

Attachment A
Water Sample Locations

CITY:SYRACUSE,NY DIV:GROUP:ENV:CAD DBG:STEINBERGER,K:SARTORI LD:G:STEINBERGER PIC:PM/TM:P,J:HART LYN:ON:OFF=REF*
V:ENV:CAD:SYRACUSE:ACTIVE:0031174000:00013:DWG:REPORT:31174P01.dwg LAYOUT:1 SAVED:1/20/2016 1:57 PM ACADVER:19.1S (LMS TECH) PAGES:10 PAGES:10 PAGES:10
XREFS: 31174X00



LEGEND:

● WATER SAMPLE LOCATION

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

WATER SAMPLE LOCATIONS

 **ARCADIS** Design & Consultancy
for natural and built assets

FIGURE
1

Attachment B
Analytical Results



ANALYTICAL RESULTS

Workorder: 2302357 30246169

Lab ID: **2302357001**
Sample ID: **TS Effluent 031418**

Date Collected: 3/14/2018 07:30 Matrix: Water
Date Received: 3/15/2018 09:01

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Mercury, Total	ND		ng/L	0.50	EPA 1631E	3/23/18 09:00	AXC	3/23/18 19:54	AXC	A

Ms. Sarah S Leung
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ANALYTICAL RESULTS

Workorder: 2302357 30246169

Lab ID: **2302357002**
Sample ID: **Influent 031418**

Date Collected: 3/14/2018 08:30 Matrix: Water
Date Received: 3/15/2018 09:01

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Mercury, Total	85.7		ng/L	1.0	EPA 1631E	3/23/18 09:00	AXC	3/23/18 15:33	AXC	A

Ms. Sarah S Leung
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2302357 30246169

Lab ID: **2302357003**

Date Collected: 3/14/2018 09:30

Matrix: Water

Sample ID: **Extractions Wells 031418**

Date Received: 3/15/2018 09:01

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Mercury, Total	2.9		ng/L	0.50	EPA 1631E	3/23/18 09:00	AXC	3/23/18 15:43	AXC	A

Ms. Sarah S Leung
Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 2317704 PNW147|30254374

Lab ID: **2317704001**
Sample ID: **TS Effluent 053018**Date Collected: 5/30/2018 07:30 Matrix: NY Non-Potable Water
Date Received: 5/31/2018 09:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	0.22J	J,1	ng/L	0.50	0.17	EPA 1631E	6/6/18 10:00 AXC	6/6/18 15:37	AXC	A

Ms. Sarah S Leung
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**ANALYTICAL RESULTS**

Workorder: 2317704 PNW147|30254374

Lab ID: **2317704002**
Sample ID: **Influent 053018**Date Collected: 5/30/2018 08:30 Matrix: NY Non-Potable Water
Date Received: 5/31/2018 09:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	92.2	1	ng/L	5.0	1.7	EPA 1631E	6/6/18 10:00 AXC	6/6/18 15:47	AXC	A

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**ANALYTICAL RESULTS**

Workorder: 2317704 PNW147|30254374

Lab ID: **2317704003**

Date Collected: 5/30/2018 09:30

Matrix: NY Non-Potable Water

Sample ID: **Extraction Wells 053018**

Date Received: 5/31/2018 09:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	19.5	1	ng/L	2.5	0.84	EPA 1631E	6/6/18 10:00 AXC	6/6/18 15:57	AXC	A

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ANALYTICAL RESULTS

Workorder: 2331328 PNW150|30261595

Lab ID: **2331328001**
Sample ID: **TS Effluent 080818**Date Collected: 8/8/2018 07:30 Matrix: Water
Date Received: 8/9/2018 10:45

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	0.53	1	ng/L	0.50	0.17	EPA 1631E	8/22/18 09:00 AXC	8/22/18 18:23	AXC	A

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**ANALYTICAL RESULTS**

Workorder: 2331328 PNW150|30261595

Lab ID: **2331328002**
Sample ID: **Influent 080818**Date Collected: 8/8/2018 08:30 Matrix: Water
Date Received: 8/9/2018 10:45

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	54.5	1,2	ng/L	2.5	0.84	EPA 1631E	8/22/18 09:00 AXC	8/22/18 18:33	AXC	A

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**ANALYTICAL RESULTS**

Workorder: 2331328 PNW150|30261595

Lab ID: **2331328003**

Date Collected: 8/8/2018 09:30

Matrix: Water

Sample ID: **Extraction Wells 080818**

Date Received: 8/9/2018 10:45

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	8.9	1,2	ng/L	2.5	0.84	EPA 1631E	8/22/18 09:00 AXC	8/23/18 08:17	AXC	A

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

**ANALYTICAL RESULTS**

Workorder: 2348769 PNW156|30270722

Lab ID: **2348769001**
Sample ID: **TS Effluent 110718**Date Collected: 11/7/2018 07:30 Matrix: Water
Date Received: 11/8/2018 09:13

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	0.22J	J,1	ng/L	0.50	0.17	EPA 1631E	11/12/18 07:59 MNP	11/9/18 13:56	MNP	A

Ms. Sarah S Leung
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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**ANALYTICAL RESULTS**

Workorder: 2348769 PNW156|30270722

Lab ID: **2348769002**
Sample ID: **Influent 110718**Date Collected: 11/7/2018 08:30 Matrix: Water
Date Received: 11/8/2018 09:13

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	121	1	ng/L	12.5	4.2	EPA 1631E	12/12/18 08:30 MNP	12/12/18 14:10	MNP	A

Ms. Sarah S Leung
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**ANALYTICAL RESULTS**

Workorder: 2348769 PNW156|30270722

Lab ID: **2348769003**

Date Collected: 11/7/2018 09:30

Matrix: Water

Sample ID: **Extraction Wells 110718**

Date Received: 11/8/2018 09:13

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	0.26J	J	ng/L	0.50	0.17	EPA 1631E	11/12/18 07:59 MNP	11/9/18 15:29	MNP	A

Ms. Sarah S Leung
Project Coordinator**ALS Environmental Laboratory Locations Across North America****Canada:** Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

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Subject:
2018 Annual Report
PCB Minimization Program
Dewey Loeffel Landfill Superfund Site
Nassau, New York

Environment

Date:
January 28, 2019

Dear Mr. Streeter:

Contact:
Donald Sauda, P.E.

This 2018 Annual Report has been prepared by Arcadis of New York, Inc. (Arcadis) to summarize activities performed under the Polychlorinated Biphenyl (PCB) Minimization Program (PCBMP) that was developed in accordance with the substantive requirements issued by the New York State Department of Environmental Conservation (NYSDEC) and incorporated into the Design Report/Implementation Plan (DR/IP) for the Dewey Loeffel Landfill Superfund Site (Site) in Nassau, New York. The activities described herein are based on the PCBMP Plan submitted to the United States Environmental Protection Agency (USEPA) on November 12, 2013, which was approved by USEPA on November 29, 2013.

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315.447.2612

Email:
Donald.Sauda@arcadis.com

Our ref:
B0031174

BACKGROUND

The treatment system at the Site was started up in December 2013. The influent to the treatment system consists of leachate removed from the existing underground leachate collection tank on the landfill and groundwater from the eight extraction wells (i.e., EW-1 through EW-8) located to the south of the landfill. The treatment system is primarily designed to address volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) in the extracted groundwater and landfill leachate prior to discharge to the Valatie Kill.

However, treatment of PCBs, if present, occurs as particulates are removed by bag filters and via adsorption in two liquid-phase granular activated carbon (GAC) units.

2018 QUARTERLY SAMPLING AND ANALYTICAL ACTIVITIES

In accordance with the PCBMP, quarterly sampling was initiated when direct discharge to the Valatie Kill began in December 2014. Four composite samples were collected on March 14, May 9, August 8, and November 7, 2018. Each sample was collected in three one-liter bottles. The composite samples at each location were comprised of eight 125 milliliter (1/8 liter) grab samples collected in each bottle every 15 minutes. Prior to 2017, samples were submitted for PCBs analyses by the modified Green Bay Mass Balance Method (mGBM); however, the only laboratory that performed this analysis closed in late 2016. Therefore, in accordance with the substantive requirements issued by NYSDEC, samples were analyzed in 2018 using USEPA Method 1668. The composite samples were collected of the combined flow from all operating extraction wells, treatment system influent, and treatment system effluent. These sample locations are shown on Figure 1 in Attachment A. All samples were packed in a cooler with ice for delivery using standard chain-of-custody (COC) procedures to Pace Analytical Services, Inc. (Pace) in Minneapolis, Minnesota. The total PCB concentrations in nanograms per liter (ng/L), equivalent to parts per trillion (ppt), are summarized below.

Sample Description	3/14/18	5/9/18	8/8/18	11/7/18
Landfill Leachate	NS*	NS*	NS*	NS*
Combined Extraction Wells	332	235	117	154
Treatment System Influent	168	77.0	81.0	243
Treatment System Effluent	Not Detected	Not Detected	Not Detected	Not Detected

*During the March 14, May 9, August 8 and November 7, 2018 sampling events the landfill leachate sample was not collected due to no flow from the leachate tank.

Analytical results (Form 1s) for the data are included in Attachment B. These data are also included in Monthly Progress Reports and full laboratory reports that are submitted monthly to USEPA.

2019 SAMPLING AND ANALYTICAL ACTIVITIES

In accordance with the PCBMP, quarterly sampling in 2019 will be conducted at the same locations as in 2018. All samples will be analyzed for PCBs by USEPA Method 1668 that achieves a total PCB reporting limit no greater than 9 ng/L. The 2019 Annual Report will be submitted to USEPA by January 31, 2020.

If you have any questions, please contact me at 315 671 9214.

Mr. Lewis Streeter
January 28, 2019

Sincerely,

Arcadis of New York, Inc.

A handwritten signature in dark ink, appearing to read "Donald F. Sauda", with a long horizontal flourish extending to the right.

Donald Sauda, P.E.
Vice President

Attachment A
Water Sample Locations



WATER SAMPLE LOCATIONS

Attachment B
Analytical Results



**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 031418
Lab Sample ID 30246167001
Filename P180324B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.236
2		---	---	ND	---	0.236
3		---	---	ND	---	0.236
4		---	---	ND	---	0.236
5		---	---	ND	---	0.236
6		---	---	ND	---	0.236
7		---	---	ND	---	0.236
8		---	---	ND	---	0.236
9		---	---	ND	---	0.236
10		---	---	ND	---	0.236
11		---	---	ND	---	2.31
12	12/13	---	---	ND	---	0.472
13	12/13	---	---	ND	---	0.472
14		---	---	ND	---	0.236
15		---	---	ND	---	0.312
16		---	---	ND	---	0.236
17		---	---	ND	---	0.236
18	18/30	---	---	ND	---	0.472
19		---	---	ND	---	0.236
20	20/28	---	---	ND	---	1.22
21	21/33	---	---	ND	---	1.28
22		---	---	ND	---	0.897
23		---	---	ND	---	0.236
24		---	---	ND	---	0.236
25		---	---	ND	---	0.236
26	26/29	---	---	ND	---	0.472
27		---	---	ND	---	0.236
28	20/28	---	---	ND	---	1.22
29	26/29	---	---	ND	---	0.472
30	18/30	---	---	ND	---	0.472
31		---	---	ND	---	1.23
32		---	---	ND	---	0.236
33	21/33	---	---	ND	---	1.28
34		---	---	ND	---	0.236
35		---	---	ND	---	0.236
36		---	---	ND	---	0.236
37		---	---	ND	---	0.501
38		---	---	ND	---	0.236
39		---	---	ND	---	0.236
40	40/41/71	---	---	ND	---	1.42
41	40/41/71	---	---	ND	---	1.42
42		---	---	ND	---	0.472
43	43/73	---	---	ND	---	0.472
44	44/47/65	---	---	ND	---	1.42
45	45/51	---	---	ND	---	0.945
46		---	---	ND	---	0.472
47	44/47/65	---	---	ND	---	1.42
48		---	---	ND	---	0.472

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 031418
Lab Sample ID 30246167001
Filename P180324B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.945
50	50/53	---	---	ND	---	0.945
51	45/51	---	---	ND	---	0.945
52		---	---	ND	---	1.45
53	50/53	---	---	ND	---	0.945
54		---	---	ND	---	0.472
55		---	---	ND	---	0.472
56		---	---	ND	---	0.472
57		---	---	ND	---	0.472
58		---	---	ND	---	0.472
59	59/62/75	---	---	ND	---	1.42
60		---	---	ND	---	0.472
61	61/70/74/76	---	---	ND	---	1.89
62	59/62/75	---	---	ND	---	1.42
63		---	---	ND	---	0.472
64		---	---	ND	---	0.472
65	44/47/65	---	---	ND	---	1.42
66		---	---	ND	---	0.794
67		---	---	ND	---	0.472
68		---	---	ND	---	0.472
69	49/69	---	---	ND	---	0.945
70	61/70/74/76	---	---	ND	---	1.89
71	40/41/71	---	---	ND	---	1.42
72		---	---	ND	---	0.472
73	43/73	---	---	ND	---	0.472
74	61/70/74/76	---	---	ND	---	1.89
75	59/62/75	---	---	ND	---	1.42
76	61/70/74/76	---	---	ND	---	1.89
77		---	---	ND	---	0.472
78		---	---	ND	---	0.472
79		---	---	ND	---	0.472
80		---	---	ND	---	0.472
81		---	---	ND	---	0.472
82		---	---	ND	---	0.472
83		---	---	ND	---	0.472
84		---	---	ND	---	0.472
85	85/116/117	---	---	ND	---	1.42
86	86/87/97/108/119/125	---	---	ND	---	2.83
87	86/87/97/108/119/125	---	---	ND	---	2.83
88	88/91	---	---	ND	---	0.945
89		---	---	ND	---	0.472
90	90/101/113	---	---	ND	---	1.42
91	88/91	---	---	ND	---	0.945
92		---	---	ND	---	0.472
93	93/98/100/102	---	---	ND	---	1.89
94		---	---	ND	---	0.472
95		---	---	ND	---	0.897
96		---	---	ND	---	0.472

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
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ND = Not Detected
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NC = Not Calculated
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 031418
Lab Sample ID 30246167001
Filename P180324B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	2.83
98	93/98/100/102	---	---	ND	---	1.89
99		---	---	ND	---	0.472
100	93/98/100/102	---	---	ND	---	1.89
101	90/101/113	---	---	ND	---	1.42
102	93/98/100/102	---	---	ND	---	1.89
103		---	---	ND	---	0.472
104		---	---	ND	---	0.472
105		---	---	ND	---	0.472
106		---	---	ND	---	0.472
107	107/124	---	---	ND	---	0.945
108	86/87/97/108/119/125	---	---	ND	---	2.83
109		---	---	ND	---	0.472
110	110/115	---	---	ND	---	0.945
111		---	---	ND	---	0.472
112		---	---	ND	---	0.472
113	90/101/113	---	---	ND	---	1.42
114		---	---	ND	---	0.472
115	110/115	---	---	ND	---	0.945
116	85/116/117	---	---	ND	---	1.42
117	85/116/117	---	---	ND	---	1.42
118		---	---	ND	---	0.605
119	86/87/97/108/119/125	---	---	ND	---	2.83
120		---	---	ND	---	0.472
121		---	---	ND	---	0.472
122		---	---	ND	---	0.472
123		---	---	ND	---	0.472
124	107/124	---	---	ND	---	0.945
125	86/87/97/108/119/125	---	---	ND	---	2.83
126		---	---	ND	---	0.472
127		---	---	ND	---	0.472
128	128/166	---	---	ND	---	0.945
129	129/138/163	---	---	ND	---	1.42
130		---	---	ND	---	0.472
131		---	---	ND	---	0.472
132		---	---	ND	---	0.472
133		---	---	ND	---	0.472
134	134/143	---	---	ND	---	0.945
135	135/151	---	---	ND	---	0.945
136		---	---	ND	---	0.472
137		---	---	ND	---	0.472
138	129/138/163	---	---	ND	---	1.42
139	139/140	---	---	ND	---	0.945
140	139/140	---	---	ND	---	0.945
141		---	---	ND	---	0.472
142		---	---	ND	---	0.472
143	134/143	---	---	ND	---	0.945
144		---	---	ND	---	0.472

Conc = Concentration
EML = Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 031418
Lab Sample ID 30246167001
Filename P180324B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.472
146		---	---	ND	---	0.472
147	147/149	---	---	ND	---	0.945
148		---	---	ND	---	0.472
149	147/149	---	---	ND	---	0.945
150		---	---	ND	---	0.472
151	135/151	---	---	ND	---	0.945
152		---	---	ND	---	0.472
153	153/168	---	---	ND	---	0.945
154		---	---	ND	---	0.472
155		---	---	ND	---	0.472
156	156/157	---	---	ND	---	0.945
157	156/157	---	---	ND	---	0.945
158		---	---	ND	---	0.472
159		---	---	ND	---	0.472
160		---	---	ND	---	0.472
161		---	---	ND	---	0.472
162		---	---	ND	---	0.472
163	129/138/163	---	---	ND	---	1.42
164		---	---	ND	---	0.472
165		---	---	ND	---	0.472
166	128/166	---	---	ND	---	0.945
167		---	---	ND	---	0.472
168	153/168	---	---	ND	---	0.945
169		---	---	ND	---	0.472
170		---	---	ND	---	0.472
171	171/173	---	---	ND	---	0.945
172		---	---	ND	---	0.472
173	171/173	---	---	ND	---	0.945
174		---	---	ND	---	0.472
175		---	---	ND	---	0.472
176		---	---	ND	---	0.472
177		---	---	ND	---	0.472
178		---	---	ND	---	0.472
179		---	---	ND	---	0.472
180	180/193	---	---	ND	---	0.945
181		---	---	ND	---	0.472
182		---	---	ND	---	0.472
183	183/185	---	---	ND	---	0.945
184		---	---	ND	---	0.472
185	183/185	---	---	ND	---	0.945
186		---	---	ND	---	0.472
187		---	---	ND	---	0.472
188		---	---	ND	---	0.472
189		---	---	ND	---	0.472
190		---	---	ND	---	0.472
191		---	---	ND	---	0.472
192		---	---	ND	---	0.472

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
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A = Limit of Detection based on signal to noise
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 031418
Lab Sample ID 30246167001
Filename P180324B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.945
194		---	---	ND	---	0.709
195		---	---	ND	---	0.709
196		---	---	ND	---	0.709
197	197/200	---	---	ND	---	1.42
198	198/199	---	---	ND	---	1.42
199	198/199	---	---	ND	---	1.42
200	197/200	---	---	ND	---	1.42
201		---	---	ND	---	0.709
202		---	---	ND	---	0.709
203		---	---	ND	---	0.709
204		---	---	ND	---	0.709
205		---	---	ND	---	0.709
206		---	---	ND	---	0.709
207		---	---	ND	---	0.709
208		---	---	ND	---	0.709
209		---	---	ND	---	0.709

Conc = Concentration
EML = Method Specified Reporting Limit (1668A)
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 031418
Lab Sample ID 30246167001
Filename P180324B_10

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID Influent 031418
Lab Sample ID 30246167002
Filename P180324B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.083	3.01	70.2	---	0.241
2		12.754	3.02	61.0	---	0.241
3		12.994	2.89	20.1	---	0.241
4		13.317	1.53	8.68	---	0.241
5		---	---	ND	---	0.241
6		16.322	1.59	1.000	---	0.241
7		---	---	ND	---	0.241
8		16.850	1.50	3.11	---	0.241
9		15.807	1.55	0.321	---	0.241
10		13.533	1.69	0.343	---	0.241
11		---	---	ND	---	2.36
12	12/13	---	---	ND	---	0.481
13	12/13	---	---	ND	---	0.481
14		---	---	ND	---	0.241
15		---	---	ND	---	0.318
16		20.479	1.00	0.598 B	---	0.241
17		19.940	0.97	0.412	---	0.241
18	18/30	19.449	1.04	1.22	---	0.481
19		17.221	1.01	0.494	---	0.241
20	20/28	---	---	ND	---	1.24
21	21/33	---	---	ND	---	1.30
22		---	---	ND	---	0.915
23		---	---	ND	---	0.241
24		---	---	ND	---	0.241
25		---	---	ND	---	0.241
26	26/29	---	---	ND	---	0.481
27		---	---	ND	---	0.241
28	20/28	---	---	ND	---	1.24
29	26/29	---	---	ND	---	0.481
30	18/30	19.449	1.04	(1.22)	---	0.481
31		---	---	ND	---	1.25
32		21.081	1.02	0.264	---	0.241
33	21/33	---	---	ND	---	1.30
34		---	---	ND	---	0.241
35		---	---	ND	---	0.241
36		---	---	ND	---	0.241
37		---	---	ND	---	0.510
38		---	---	ND	---	0.241
39		---	---	ND	---	0.241
40	40/41/71	---	---	ND	---	1.44
41	40/41/71	---	---	ND	---	1.44
42		---	---	ND	---	0.481
43	43/73	---	---	ND	---	0.481
44	44/47/65	---	---	ND	---	1.44
45	45/51	---	---	ND	---	0.963
46		---	---	ND	---	0.481
47	44/47/65	---	---	ND	---	1.44
48		---	---	ND	---	0.481

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 031418
Lab Sample ID 30246167002
Filename P180324B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.963
50	50/53	---	---	ND	---	0.963
51	45/51	---	---	ND	---	0.963
52		---	---	ND	---	1.48
53	50/53	---	---	ND	---	0.963
54		---	---	ND	---	0.481
55		---	---	ND	---	0.481
56		---	---	ND	---	0.481
57		---	---	ND	---	0.481
58		---	---	ND	---	0.481
59	59/62/75	---	---	ND	---	1.44
60		---	---	ND	---	0.481
61	61/70/74/76	---	---	ND	---	1.93
62	59/62/75	---	---	ND	---	1.44
63		---	---	ND	---	0.481
64		---	---	ND	---	0.481
65	44/47/65	---	---	ND	---	1.44
66		---	---	ND	---	0.809
67		---	---	ND	---	0.481
68		---	---	ND	---	0.481
69	49/69	---	---	ND	---	0.963
70	61/70/74/76	---	---	ND	---	1.93
71	40/41/71	---	---	ND	---	1.44
72		---	---	ND	---	0.481
73	43/73	---	---	ND	---	0.481
74	61/70/74/76	---	---	ND	---	1.93
75	59/62/75	---	---	ND	---	1.44
76	61/70/74/76	---	---	ND	---	1.93
77		---	---	ND	---	0.481
78		---	---	ND	---	0.481
79		---	---	ND	---	0.481
80		---	---	ND	---	0.481
81		---	---	ND	---	0.481
82		---	---	ND	---	0.481
83		---	---	ND	---	0.481
84		---	---	ND	---	0.481
85	85/116/117	---	---	ND	---	1.44
86	86/87/97/108/119/125	---	---	ND	---	2.89
87	86/87/97/108/119/125	---	---	ND	---	2.89
88	88/91	---	---	ND	---	0.963
89		---	---	ND	---	0.481
90	90/101/113	---	---	ND	---	1.44
91	88/91	---	---	ND	---	0.963
92		---	---	ND	---	0.481
93	93/98/100/102	---	---	ND	---	1.93
94		---	---	ND	---	0.481
95		---	---	ND	---	0.915
96		---	---	ND	---	0.481

Conc = Concentration
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 031418
Lab Sample ID 30246167002
Filename P180324B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	2.89
98	93/98/100/102	---	---	ND	---	1.93
99		---	---	ND	---	0.481
100	93/98/100/102	---	---	ND	---	1.93
101	90/101/113	---	---	ND	---	1.44
102	93/98/100/102	---	---	ND	---	1.93
103		---	---	ND	---	0.481
104		---	---	ND	---	0.481
105		---	---	ND	---	0.481
106		---	---	ND	---	0.481
107	107/124	---	---	ND	---	0.963
108	86/87/97/108/119/125	---	---	ND	---	2.89
109		---	---	ND	---	0.481
110	110/115	---	---	ND	---	0.963
111		---	---	ND	---	0.481
112		---	---	ND	---	0.481
113	90/101/113	---	---	ND	---	1.44
114		---	---	ND	---	0.481
115	110/115	---	---	ND	---	0.963
116	85/116/117	---	---	ND	---	1.44
117	85/116/117	---	---	ND	---	1.44
118		---	---	ND	---	0.616
119	86/87/97/108/119/125	---	---	ND	---	2.89
120		---	---	ND	---	0.481
121		---	---	ND	---	0.481
122		---	---	ND	---	0.481
123		---	---	ND	---	0.481
124	107/124	---	---	ND	---	0.963
125	86/87/97/108/119/125	---	---	ND	---	2.89
126		---	---	ND	---	0.481
127		---	---	ND	---	0.481
128	128/166	---	---	ND	---	0.963
129	129/138/163	---	---	ND	---	1.44
130		---	---	ND	---	0.481
131		---	---	ND	---	0.481
132		---	---	ND	---	0.481
133		---	---	ND	---	0.481
134	134/143	---	---	ND	---	0.963
135	135/151	---	---	ND	---	0.963
136		---	---	ND	---	0.481
137		---	---	ND	---	0.481
138	129/138/163	---	---	ND	---	1.44
139	139/140	---	---	ND	---	0.963
140	139/140	---	---	ND	---	0.963
141		---	---	ND	---	0.481
142		---	---	ND	---	0.481
143	134/143	---	---	ND	---	0.963
144		---	---	ND	---	0.481

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 031418
Lab Sample ID 30246167002
Filename P180324B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.481
146		---	---	ND	---	0.481
147	147/149	---	---	ND	---	0.963
148		---	---	ND	---	0.481
149	147/149	---	---	ND	---	0.963
150		---	---	ND	---	0.481
151	135/151	---	---	ND	---	0.963
152		---	---	ND	---	0.481
153	153/168	---	---	ND	---	0.963
154		---	---	ND	---	0.481
155		---	---	ND	---	0.481
156	156/157	---	---	ND	---	0.963
157	156/157	---	---	ND	---	0.963
158		---	---	ND	---	0.481
159		---	---	ND	---	0.481
160		---	---	ND	---	0.481
161		---	---	ND	---	0.481
162		---	---	ND	---	0.481
163	129/138/163	---	---	ND	---	1.44
164		---	---	ND	---	0.481
165		---	---	ND	---	0.481
166	128/166	---	---	ND	---	0.963
167		---	---	ND	---	0.481
168	153/168	---	---	ND	---	0.963
169		---	---	ND	---	0.481
170		---	---	ND	---	0.481
171	171/173	---	---	ND	---	0.963
172		---	---	ND	---	0.481
173	171/173	---	---	ND	---	0.963
174		---	---	ND	---	0.481
175		---	---	ND	---	0.481
176		---	---	ND	---	0.481
177		---	---	ND	---	0.481
178		---	---	ND	---	0.481
179		---	---	ND	---	0.481
180	180/193	---	---	ND	---	0.963
181		---	---	ND	---	0.481
182		---	---	ND	---	0.481
183	183/185	---	---	ND	---	0.963
184		---	---	ND	---	0.481
185	183/185	---	---	ND	---	0.963
186		---	---	ND	---	0.481
187		---	---	ND	---	0.481
188		---	---	ND	---	0.481
189		---	---	ND	---	0.481
190		---	---	ND	---	0.481
191		---	---	ND	---	0.481
192		---	---	ND	---	0.481

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 031418
Lab Sample ID 30246167002
Filename P180324B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.963
194		---	---	ND	---	0.722
195		---	---	ND	---	0.722
196		---	---	ND	---	0.722
197	197/200	---	---	ND	---	1.44
198	198/199	---	---	ND	---	1.44
199	198/199	---	---	ND	---	1.44
200	197/200	---	---	ND	---	1.44
201		---	---	ND	---	0.722
202		---	---	ND	---	0.722
203		---	---	ND	---	0.722
204		---	---	ND	---	0.722
205		---	---	ND	---	0.722
206		---	---	ND	---	0.722
207		---	---	ND	---	0.722
208		---	---	ND	---	0.722
209		---	---	ND	---	0.722

Conc = Concentration
EML = Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 031418
Lab Sample ID 30246167002
Filename P180324B_11

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	151
Total Dichloro Biphenyls	13.5
Total Trichloro Biphenyls	2.99
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	168

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 031418
Lab Sample ID 30246167003
Filename P180324B_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.094	3.05	141	---	0.241
2		12.778	3.00	119	---	0.241
3		13.006	3.07	39.8	---	0.241
4		13.329	1.51	16.4	---	0.241
5		16.706	1.54	0.244	---	0.241
6		16.322	1.56	1.90	---	0.241
7		16.023	1.40	0.271	---	0.241
8		16.849	1.58	5.82	---	0.241
9		15.819	1.33	0.622	---	0.241
10		13.545	1.38	0.621	---	0.241
11		---	---	ND	---	2.36
12	12/13	---	---	ND	---	0.482
13	12/13	---	---	ND	---	0.482
14		---	---	ND	---	0.241
15		---	---	ND	---	0.318
16		20.492	1.03	1.15 B	---	0.241
17		19.952	0.97	0.800	---	0.241
18	18/30	19.461	1.04	2.29	---	0.482
19		17.233	1.09	0.871	---	0.241
20	20/28	---	---	ND	---	1.24
21	21/33	---	---	ND	---	1.30
22		---	---	ND	---	0.916
23		---	---	ND	---	0.241
24		---	---	ND	---	0.241
25		---	---	ND	---	0.241
26	26/29	---	---	ND	---	0.482
27		---	---	ND	---	0.241
28	20/28	---	---	ND	---	1.24
29	26/29	---	---	ND	---	0.482
30	18/30	19.461	1.04	(2.29)	---	0.482
31		---	---	ND	---	1.25
32		21.098	1.17	0.465	---	0.241
33	21/33	---	---	ND	---	1.30
34		---	---	ND	---	0.241
35		---	---	ND	---	0.241
36		---	---	ND	---	0.241
37		---	---	ND	---	0.511
38		---	---	ND	---	0.241
39		---	---	ND	---	0.241
40	40/41/71	---	---	ND	---	1.45
41	40/41/71	---	---	ND	---	1.45
42		---	---	ND	---	0.482
43	43/73	---	---	ND	---	0.482
44	44/47/65	---	---	ND	---	1.45
45	45/51	---	---	ND	---	0.965
46		---	---	ND	---	0.482
47	44/47/65	---	---	ND	---	1.45
48		---	---	ND	---	0.482

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 031418
Lab Sample ID 30246167003
Filename P180324B_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.965
50	50/53	---	---	ND	---	0.965
51	45/51	---	---	ND	---	0.965
52		---	---	ND	---	1.49
53	50/53	---	---	ND	---	0.965
54		---	---	ND	---	0.482
55		---	---	ND	---	0.482
56		---	---	ND	---	0.482
57		---	---	ND	---	0.482
58		---	---	ND	---	0.482
59	59/62/75	---	---	ND	---	1.45
60		---	---	ND	---	0.482
61	61/70/74/76	---	---	ND	---	1.93
62	59/62/75	---	---	ND	---	1.45
63		---	---	ND	---	0.482
64		---	---	ND	---	0.482
65	44/47/65	---	---	ND	---	1.45
66		---	---	ND	---	0.810
67		---	---	ND	---	0.482
68		---	---	ND	---	0.482
69	49/69	---	---	ND	---	0.965
70	61/70/74/76	---	---	ND	---	1.93
71	40/41/71	---	---	ND	---	1.45
72		---	---	ND	---	0.482
73	43/73	---	---	ND	---	0.482
74	61/70/74/76	---	---	ND	---	1.93
75	59/62/75	---	---	ND	---	1.45
76	61/70/74/76	---	---	ND	---	1.93
77		---	---	ND	---	0.482
78		---	---	ND	---	0.482
79		---	---	ND	---	0.482
80		---	---	ND	---	0.482
81		---	---	ND	---	0.482
82		---	---	ND	---	0.482
83		---	---	ND	---	0.482
84		---	---	ND	---	0.482
85	85/116/117	---	---	ND	---	1.45
86	86/87/97/108/119/125	---	---	ND	---	2.89
87	86/87/97/108/119/125	---	---	ND	---	2.89
88	88/91	---	---	ND	---	0.965
89		---	---	ND	---	0.482
90	90/101/113	---	---	ND	---	1.45
91	88/91	---	---	ND	---	0.965
92		---	---	ND	---	0.482
93	93/98/100/102	---	---	ND	---	1.93
94		---	---	ND	---	0.482
95		---	---	ND	---	0.916
96		---	---	ND	---	0.482

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 031418
Lab Sample ID 30246167003
Filename P180324B_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	2.89
98	93/98/100/102	---	---	ND	---	1.93
99		---	---	ND	---	0.482
100	93/98/100/102	---	---	ND	---	1.93
101	90/101/113	---	---	ND	---	1.45
102	93/98/100/102	---	---	ND	---	1.93
103		---	---	ND	---	0.482
104		---	---	ND	---	0.482
105		---	---	ND	---	0.482
106		---	---	ND	---	0.482
107	107/124	---	---	ND	---	0.965
108	86/87/97/108/119/125	---	---	ND	---	2.89
109		---	---	ND	---	0.482
110	110/115	---	---	ND	---	0.965
111		---	---	ND	---	0.482
112		---	---	ND	---	0.482
113	90/101/113	---	---	ND	---	1.45
114		---	---	ND	---	0.482
115	110/115	---	---	ND	---	0.965
116	85/116/117	---	---	ND	---	1.45
117	85/116/117	---	---	ND	---	1.45
118		---	---	ND	---	0.617
119	86/87/97/108/119/125	---	---	ND	---	2.89
120		---	---	ND	---	0.482
121		---	---	ND	---	0.482
122		---	---	ND	---	0.482
123		---	---	ND	---	0.482
124	107/124	---	---	ND	---	0.965
125	86/87/97/108/119/125	---	---	ND	---	2.89
126		---	---	ND	---	0.482
127		---	---	ND	---	0.482
128	128/166	---	---	ND	---	0.965
129	129/138/163	---	---	ND	---	1.45
130		---	---	ND	---	0.482
131		---	---	ND	---	0.482
132		---	---	ND	---	0.482
133		---	---	ND	---	0.482
134	134/143	---	---	ND	---	0.965
135	135/151	---	---	ND	---	0.965
136		---	---	ND	---	0.482
137		---	---	ND	---	0.482
138	129/138/163	---	---	ND	---	1.45
139	139/140	---	---	ND	---	0.965
140	139/140	---	---	ND	---	0.965
141		---	---	ND	---	0.482
142		---	---	ND	---	0.482
143	134/143	---	---	ND	---	0.965
144		---	---	ND	---	0.482

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
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R = Recovery outside of Method 1668A control limits
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Pace AnalyticalTM

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 031418
Lab Sample ID 30246167003
Filename P180324B_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.482
146		---	---	ND	---	0.482
147	147/149	---	---	ND	---	0.965
148		---	---	ND	---	0.482
149	147/149	---	---	ND	---	0.965
150		---	---	ND	---	0.482
151	135/151	---	---	ND	---	0.965
152		---	---	ND	---	0.482
153	153/168	---	---	ND	---	0.965
154		---	---	ND	---	0.482
155		---	---	ND	---	0.482
156	156/157	---	---	ND	---	0.965
157	156/157	---	---	ND	---	0.965
158		---	---	ND	---	0.482
159		---	---	ND	---	0.482
160		---	---	ND	---	0.482
161		---	---	ND	---	0.482
162		---	---	ND	---	0.482
163	129/138/163	---	---	ND	---	1.45
164		---	---	ND	---	0.482
165		---	---	ND	---	0.482
166	128/166	---	---	ND	---	0.965
167		---	---	ND	---	0.482
168	153/168	---	---	ND	---	0.965
169		---	---	ND	---	0.482
170		---	---	ND	---	0.482
171	171/173	---	---	ND	---	0.965
172		---	---	ND	---	0.482
173	171/173	---	---	ND	---	0.965
174		---	---	ND	---	0.482
175		---	---	ND	---	0.482
176		---	---	ND	---	0.482
177		---	---	ND	---	0.482
178		---	---	ND	---	0.482
179		---	---	ND	---	0.482
180	180/193	---	---	ND	---	0.965
181		---	---	ND	---	0.482
182		---	---	ND	---	0.482
183	183/185	---	---	ND	---	0.965
184		---	---	ND	---	0.482
185	183/185	---	---	ND	---	0.965
186		---	---	ND	---	0.482
187		---	---	ND	---	0.482
188		---	---	ND	---	0.482
189		---	---	ND	---	0.482
190		---	---	ND	---	0.482
191		---	---	ND	---	0.482
192		---	---	ND	---	0.482

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 031418
Lab Sample ID 30246167003
Filename P180324B_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.965
194		---	---	ND	---	0.723
195		---	---	ND	---	0.723
196		---	---	ND	---	0.723
197	197/200	---	---	ND	---	1.45
198	198/199	---	---	ND	---	1.45
199	198/199	---	---	ND	---	1.45
200	197/200	---	---	ND	---	1.45
201		---	---	ND	---	0.723
202		---	---	ND	---	0.723
203		---	---	ND	---	0.723
204		---	---	ND	---	0.723
205		---	---	ND	---	0.723
206		---	---	ND	---	0.723
207		---	---	ND	---	0.723
208		---	---	ND	---	0.723
209		---	---	ND	---	0.723

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 031418
Lab Sample ID 30246167003
Filename P180324B_12

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	300
Total Dichloro Biphenyls	25.9
Total Trichloro Biphenyls	5.58
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	332

ND = Not Detected

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 050918
Lab Sample ID 30252201001
Filename P180522A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.250
2		---	---	ND	---	0.250
3		---	---	ND	---	0.250
4		---	---	ND	---	0.250
5		---	---	ND	---	0.250
6		---	---	ND	---	0.250
7		---	---	ND	---	0.250
8		---	---	ND	---	0.250
9		---	---	ND	---	0.250
10		---	---	ND	---	0.250
11		---	---	ND	---	2.45
12	12/13	---	---	ND	---	0.501
13	12/13	---	---	ND	---	0.501
14		---	---	ND	---	0.250
15		---	---	ND	---	0.330
16		---	---	ND	---	0.250
17		---	---	ND	---	0.250
18	18/30	---	---	ND	---	0.501
19		---	---	ND	---	0.250
20	20/28	---	---	ND	---	1.29
21	21/33	---	---	ND	---	1.35
22		---	---	ND	---	0.951
23		---	---	ND	---	0.250
24		---	---	ND	---	0.250
25		---	---	ND	---	0.250
26	26/29	---	---	ND	---	0.501
27		---	---	ND	---	0.250
28	20/28	---	---	ND	---	1.29
29	26/29	---	---	ND	---	0.501
30	18/30	---	---	ND	---	0.501
31		---	---	ND	---	1.30
32		---	---	ND	---	0.250
33	21/33	---	---	ND	---	1.35
34		---	---	ND	---	0.250
35		---	---	ND	---	0.250
36		---	---	ND	---	0.250
37		---	---	ND	---	0.531
38		---	---	ND	---	0.250
39		---	---	ND	---	0.250
40	40/41/71	---	---	ND	---	1.50
41	40/41/71	---	---	ND	---	1.50
42		---	---	ND	---	0.501
43	43/73	---	---	ND	---	0.501
44	44/47/65	---	---	ND	---	1.50
45	45/51	---	---	ND	---	1.00
46		---	---	ND	---	0.501
47	44/47/65	---	---	ND	---	1.50
48		---	---	ND	---	0.501

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
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Pace AnalyticalTM

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 050918
Lab Sample ID 30252201001
Filename P180522A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	1.00
50	50/53	---	---	ND	---	1.00
51	45/51	---	---	ND	---	1.00
52		---	---	ND	---	1.54
53	50/53	---	---	ND	---	1.00
54		---	---	ND	---	0.501
55		---	---	ND	---	0.501
56		---	---	ND	---	0.501
57		---	---	ND	---	0.501
58		---	---	ND	---	0.501
59	59/62/75	---	---	ND	---	1.50
60		---	---	ND	---	0.501
61	61/70/74/76	---	---	ND	---	2.00
62	59/62/75	---	---	ND	---	1.50
63		---	---	ND	---	0.501
64		---	---	ND	---	0.501
65	44/47/65	---	---	ND	---	1.50
66		---	---	ND	---	0.841
67		---	---	ND	---	0.501
68		---	---	ND	---	0.501
69	49/69	---	---	ND	---	1.00
70	61/70/74/76	---	---	ND	---	2.00
71	40/41/71	---	---	ND	---	1.50
72		---	---	ND	---	0.501
73	43/73	---	---	ND	---	0.501
74	61/70/74/76	---	---	ND	---	2.00
75	59/62/75	---	---	ND	---	1.50
76	61/70/74/76	---	---	ND	---	2.00
77		---	---	ND	---	0.501
78		---	---	ND	---	0.501
79		---	---	ND	---	0.501
80		---	---	ND	---	0.501
81		---	---	ND	---	0.501
82		---	---	ND	---	0.501
83		---	---	ND	---	0.501
84		---	---	ND	---	0.501
85	85/116/117	---	---	ND	---	1.50
86	86/87/97/108/119/125	---	---	ND	---	3.00
87	86/87/97/108/119/125	---	---	ND	---	3.00
88	88/91	---	---	ND	---	1.00
89		---	---	ND	---	0.501
90	90/101/113	---	---	ND	---	1.50
91	88/91	---	---	ND	---	1.00
92		---	---	ND	---	0.501
93	93/98/100/102	---	---	ND	---	2.00
94		---	---	ND	---	0.501
95		---	---	ND	---	0.951
96		---	---	ND	---	0.501

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 050918
Lab Sample ID 30252201001
Filename P180522A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	3.00
98	93/98/100/102	---	---	ND	---	2.00
99		---	---	ND	---	0.501
100	93/98/100/102	---	---	ND	---	2.00
101	90/101/113	---	---	ND	---	1.50
102	93/98/100/102	---	---	ND	---	2.00
103		---	---	ND	---	0.501
104		---	---	ND	---	0.501
105		---	---	ND	---	0.501
106		---	---	ND	---	0.501
107	107/124	---	---	ND	---	1.00
108	86/87/97/108/119/125	---	---	ND	---	3.00
109		---	---	ND	---	0.501
110	110/115	---	---	ND	---	1.00
111		---	---	ND	---	0.501
112		---	---	ND	---	0.501
113	90/101/113	---	---	ND	---	1.50
114		---	---	ND	---	0.501
115	110/115	---	---	ND	---	1.00
116	85/116/117	---	---	ND	---	1.50
117	85/116/117	---	---	ND	---	1.50
118		---	---	ND	---	0.641
119	86/87/97/108/119/125	---	---	ND	---	3.00
120		---	---	ND	---	0.501
121		---	---	ND	---	0.501
122		---	---	ND	---	0.501
123		---	---	ND	---	0.501
124	107/124	---	---	ND	---	1.00
125	86/87/97/108/119/125	---	---	ND	---	3.00
126		---	---	ND	---	0.501
127		---	---	ND	---	0.501
128	128/166	---	---	ND	---	1.00
129	129/138/163	---	---	ND	---	1.50
130		---	---	ND	---	0.501
131		---	---	ND	---	0.501
132		---	---	ND	---	0.501
133		---	---	ND	---	0.501
134	134/143	---	---	ND	---	1.00
135	135/151	---	---	ND	---	1.00
136		---	---	ND	---	0.501
137		---	---	ND	---	0.501
138	129/138/163	---	---	ND	---	1.50
139	139/140	---	---	ND	---	1.00
140	139/140	---	---	ND	---	1.00
141		---	---	ND	---	0.501
142		---	---	ND	---	0.501
143	134/143	---	---	ND	---	1.00
144		---	---	ND	---	0.501

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

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NA = Not Applicable
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* = See Discussion
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RT = Retention Time
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 050918
Lab Sample ID 30252201001
Filename P180522A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.501
146		---	---	ND	---	0.501
147	147/149	---	---	ND	---	1.00
148		---	---	ND	---	0.501
149	147/149	---	---	ND	---	1.00
150		---	---	ND	---	0.501
151	135/151	---	---	ND	---	1.00
152		---	---	ND	---	0.501
153	153/168	---	---	ND	---	1.00
154		---	---	ND	---	0.501
155		---	---	ND	---	0.501
156	156/157	---	---	ND	---	1.00
157	156/157	---	---	ND	---	1.00
158		---	---	ND	---	0.501
159		---	---	ND	---	0.501
160		---	---	ND	---	0.501
161		---	---	ND	---	0.501
162		---	---	ND	---	0.501
163	129/138/163	---	---	ND	---	1.50
164		---	---	ND	---	0.501
165		---	---	ND	---	0.501
166	128/166	---	---	ND	---	1.00
167		---	---	ND	---	0.501
168	153/168	---	---	ND	---	1.00
169		---	---	ND	---	0.501
170		---	---	ND	---	0.501
171	171/173	---	---	ND	---	1.00
172		---	---	ND	---	0.501
173	171/173	---	---	ND	---	1.00
174		---	---	ND	---	0.501
175		---	---	ND	---	0.501
176		---	---	ND	---	0.501
177		---	---	ND	---	0.501
178		---	---	ND	---	0.501
179		---	---	ND	---	0.501
180	180/193	---	---	ND	---	1.00
181		---	---	ND	---	0.501
182		---	---	ND	---	0.501
183	183/185	---	---	ND	---	1.00
184		---	---	ND	---	0.501
185	183/185	---	---	ND	---	1.00
186		---	---	ND	---	0.501
187		---	---	ND	---	0.501
188		---	---	ND	---	0.501
189		---	---	ND	---	0.501
190		---	---	ND	---	0.501
191		---	---	ND	---	0.501
192		---	---	ND	---	0.501

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 050918
Lab Sample ID 30252201001
Filename P180522A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	1.00
194		---	---	ND	---	0.751
195		---	---	ND	---	0.751
196		---	---	ND	---	0.751
197	197/200	---	---	ND	---	1.50
198	198/199	---	---	ND	---	1.50
199	198/199	---	---	ND	---	1.50
200	197/200	---	---	ND	---	1.50
201		---	---	ND	---	0.751
202		---	---	ND	---	0.751
203		---	---	ND	---	0.751
204		---	---	ND	---	0.751
205		---	---	ND	---	0.751
206		---	---	ND	---	0.751
207		---	---	ND	---	0.751
208		---	---	ND	---	0.751
209		---	---	ND	---	0.751

Conc = Concentration
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 050918
Lab Sample ID 30252201001
Filename P180522A_06

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

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Pace AnalyticalTM

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID Influent 050918
Lab Sample ID 30252201002
Filename P180522A_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.143	3.13	32.0	---	0.248
2		12.827	3.13	24.9	---	0.248
3		13.067	3.16	10.2	---	0.248
4		13.378	1.56	5.55	---	0.248
5		---	---	ND	---	0.248
6		16.396	1.57	0.580	---	0.248
7		---	---	ND	---	0.248
8		16.924	1.55	1.82	---	0.248
9		---	---	ND	---	0.248
10		---	---	ND	---	0.248
11		---	---	ND	---	2.43
12	12/13	---	---	ND	---	0.497
13	12/13	---	---	ND	---	0.497
14		---	---	ND	---	0.248
15		---	---	ND	---	0.328
16		20.555	0.98	0.418	---	0.248
17		20.003	1.13	0.284	---	0.248
18	18/30	19.524	1.01	0.848	---	0.497
19		17.295	1.08	0.338	---	0.248
20	20/28	---	---	ND	---	1.28
21	21/33	---	---	ND	---	1.34
22		---	---	ND	---	0.944
23		---	---	ND	---	0.248
24		---	---	ND	---	0.248
25		---	---	ND	---	0.248
26	26/29	---	---	ND	---	0.497
27		---	---	ND	---	0.248
28	20/28	---	---	ND	---	1.28
29	26/29	---	---	ND	---	0.497
30	18/30	19.524	1.01	(0.848)	---	0.497
31		---	---	ND	---	1.29
32		---	---	ND	---	0.248
33	21/33	---	---	ND	---	1.34
34		---	---	ND	---	0.248
35		---	---	ND	---	0.248
36		---	---	ND	---	0.248
37		---	---	ND	---	0.527
38		---	---	ND	---	0.248
39		---	---	ND	---	0.248
40	40/41/71	---	---	ND	---	1.49
41	40/41/71	---	---	ND	---	1.49
42		---	---	ND	---	0.497
43	43/73	---	---	ND	---	0.497
44	44/47/65	---	---	ND	---	1.49
45	45/51	---	---	ND	---	0.994
46		---	---	ND	---	0.497
47	44/47/65	---	---	ND	---	1.49
48		---	---	ND	---	0.497

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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Pace AnalyticalTM

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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Fax: 612- 607-6444

Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID Influent 050918
Lab Sample ID 30252201002
Filename P180522A_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.994
50	50/53	---	---	ND	---	0.994
51	45/51	---	---	ND	---	0.994
52		---	---	ND	---	1.53
53	50/53	---	---	ND	---	0.994
54		---	---	ND	---	0.497
55		---	---	ND	---	0.497
56		---	---	ND	---	0.497
57		---	---	ND	---	0.497
58		---	---	ND	---	0.497
59	59/62/75	---	---	ND	---	1.49
60		---	---	ND	---	0.497
61	61/70/74/76	---	---	ND	---	1.99
62	59/62/75	---	---	ND	---	1.49
63		---	---	ND	---	0.497
64		---	---	ND	---	0.497
65	44/47/65	---	---	ND	---	1.49
66		---	---	ND	---	0.835
67		---	---	ND	---	0.497
68		---	---	ND	---	0.497
69	49/69	---	---	ND	---	0.994
70	61/70/74/76	---	---	ND	---	1.99
71	40/41/71	---	---	ND	---	1.49
72		---	---	ND	---	0.497
73	43/73	---	---	ND	---	0.497
74	61/70/74/76	---	---	ND	---	1.99
75	59/62/75	---	---	ND	---	1.49
76	61/70/74/76	---	---	ND	---	1.99
77		---	---	ND	---	0.497
78		---	---	ND	---	0.497
79		---	---	ND	---	0.497
80		---	---	ND	---	0.497
81		---	---	ND	---	0.497
82		---	---	ND	---	0.497
83		---	---	ND	---	0.497
84		---	---	ND	---	0.497
85	85/116/117	---	---	ND	---	1.49
86	86/87/97/108/119/125	---	---	ND	---	2.98
87	86/87/97/108/119/125	---	---	ND	---	2.98
88	88/91	---	---	ND	---	0.994
89		---	---	ND	---	0.497
90	90/101/113	---	---	ND	---	1.49
91	88/91	---	---	ND	---	0.994
92		---	---	ND	---	0.497
93	93/98/100/102	---	---	ND	---	1.99
94		---	---	ND	---	0.497
95		---	---	ND	---	0.944
96		---	---	ND	---	0.497

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 050918
Lab Sample ID 30252201002
Filename P180522A_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	2.98
98	93/98/100/102	---	---	ND	---	1.99
99		---	---	ND	---	0.497
100	93/98/100/102	---	---	ND	---	1.99
101	90/101/113	---	---	ND	---	1.49
102	93/98/100/102	---	---	ND	---	1.99
103		---	---	ND	---	0.497
104		---	---	ND	---	0.497
105		---	---	ND	---	0.497
106		---	---	ND	---	0.497
107	107/124	---	---	ND	---	0.994
108	86/87/97/108/119/125	---	---	ND	---	2.98
109		---	---	ND	---	0.497
110	110/115	---	---	ND	---	0.994
111		---	---	ND	---	0.497
112		---	---	ND	---	0.497
113	90/101/113	---	---	ND	---	1.49
114		---	---	ND	---	0.497
115	110/115	---	---	ND	---	0.994
116	85/116/117	---	---	ND	---	1.49
117	85/116/117	---	---	ND	---	1.49
118		---	---	ND	---	0.636
119	86/87/97/108/119/125	---	---	ND	---	2.98
120		---	---	ND	---	0.497
121		---	---	ND	---	0.497
122		---	---	ND	---	0.497
123		---	---	ND	---	0.497
124	107/124	---	---	ND	---	0.994
125	86/87/97/108/119/125	---	---	ND	---	2.98
126		---	---	ND	---	0.497
127		---	---	ND	---	0.497
128	128/166	---	---	ND	---	0.994
129	129/138/163	---	---	ND	---	1.49
130		---	---	ND	---	0.497
131		---	---	ND	---	0.497
132		---	---	ND	---	0.497
133		---	---	ND	---	0.497
134	134/143	---	---	ND	---	0.994
135	135/151	---	---	ND	---	0.994
136		---	---	ND	---	0.497
137		---	---	ND	---	0.497
138	129/138/163	---	---	ND	---	1.49
139	139/140	---	---	ND	---	0.994
140	139/140	---	---	ND	---	0.994
141		---	---	ND	---	0.497
142		---	---	ND	---	0.497
143	134/143	---	---	ND	---	0.994
144		---	---	ND	---	0.497

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 050918
Lab Sample ID 30252201002
Filename P180522A_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.497
146		---	---	ND	---	0.497
147	147/149	---	---	ND	---	0.994
148		---	---	ND	---	0.497
149	147/149	---	---	ND	---	0.994
150		---	---	ND	---	0.497
151	135/151	---	---	ND	---	0.994
152		---	---	ND	---	0.497
153	153/168	---	---	ND	---	0.994
154		---	---	ND	---	0.497
155		---	---	ND	---	0.497
156	156/157	---	---	ND	---	0.994
157	156/157	---	---	ND	---	0.994
158		---	---	ND	---	0.497
159		---	---	ND	---	0.497
160		---	---	ND	---	0.497
161		---	---	ND	---	0.497
162		---	---	ND	---	0.497
163	129/138/163	---	---	ND	---	1.49
164		---	---	ND	---	0.497
165		---	---	ND	---	0.497
166	128/166	---	---	ND	---	0.994
167		---	---	ND	---	0.497
168	153/168	---	---	ND	---	0.994
169		---	---	ND	---	0.497
170		---	---	ND	---	0.497
171	171/173	---	---	ND	---	0.994
172		---	---	ND	---	0.497
173	171/173	---	---	ND	---	0.994
174		---	---	ND	---	0.497
175		---	---	ND	---	0.497
176		---	---	ND	---	0.497
177		---	---	ND	---	0.497
178		---	---	ND	---	0.497
179		---	---	ND	---	0.497
180	180/193	---	---	ND	---	0.994
181		---	---	ND	---	0.497
182		---	---	ND	---	0.497
183	183/185	---	---	ND	---	0.994
184		---	---	ND	---	0.497
185	183/185	---	---	ND	---	0.994
186		---	---	ND	---	0.497
187		---	---	ND	---	0.497
188		---	---	ND	---	0.497
189		---	---	ND	---	0.497
190		---	---	ND	---	0.497
191		---	---	ND	---	0.497
192		---	---	ND	---	0.497

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 050918
Lab Sample ID 30252201002
Filename P180522A_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.994
194		---	---	ND	---	0.745
195		---	---	ND	---	0.745
196		---	---	ND	---	0.745
197	197/200	---	---	ND	---	1.49
198	198/199	---	---	ND	---	1.49
199	198/199	---	---	ND	---	1.49
200	197/200	---	---	ND	---	1.49
201		---	---	ND	---	0.745
202		---	---	ND	---	0.745
203		---	---	ND	---	0.745
204		---	---	ND	---	0.745
205		---	---	ND	---	0.745
206		---	---	ND	---	0.745
207		---	---	ND	---	0.745
208		---	---	ND	---	0.745
209		---	---	ND	---	0.745

Conc = Concentration
EML = Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 050918
Lab Sample ID 30252201002
Filename P180522A_07

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	67.1
Total Dichloro Biphenyls	7.95
Total Trichloro Biphenyls	1.89
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	77.0

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 050918
Lab Sample ID 30252201003
Filename P180522A_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.131	3.09	95.1	---	0.242
2		12.815	3.16	80.4	---	0.242
3		13.055	2.98	30.7	---	0.242
4		13.366	1.53	15.7	---	0.242
5		---	---	ND	---	0.242
6		16.385	1.53	1.57	---	0.242
7		---	---	ND	---	0.242
8		16.924	1.56	5.30	---	0.242
9		15.881	1.62	0.491	---	0.242
10		13.582	1.41	0.664	---	0.242
11		---	---	ND	---	2.37
12	12/13	---	---	ND	---	0.484
13	12/13	---	---	ND	---	0.484
14		---	---	ND	---	0.242
15		---	---	ND	---	0.319
16		20.567	1.07	1.11	---	0.242
17		20.016	1.15	0.734	---	0.242
18	18/30	19.524	1.07	2.28	---	0.484
19		17.283	1.12	0.920	---	0.242
20	20/28	---	---	ND	---	1.25
21	21/33	---	---	ND	---	1.31
22		---	---	ND	---	0.919
23		---	---	ND	---	0.242
24		---	---	ND	---	0.242
25		---	---	ND	---	0.242
26	26/29	---	---	ND	---	0.484
27		---	---	ND	---	0.242
28	20/28	---	---	ND	---	1.25
29	26/29	---	---	ND	---	0.484
30	18/30	19.524	1.07	(2.28)	---	0.484
31		---	---	ND	---	1.26
32		21.164	1.14	0.383	---	0.242
33	21/33	---	---	ND	---	1.31
34		---	---	ND	---	0.242
35		---	---	ND	---	0.242
36		---	---	ND	---	0.242
37		---	---	ND	---	0.513
38		---	---	ND	---	0.242
39		---	---	ND	---	0.242
40	40/41/71	---	---	ND	---	1.45
41	40/41/71	---	---	ND	---	1.45
42		---	---	ND	---	0.484
43	43/73	---	---	ND	---	0.484
44	44/47/65	---	---	ND	---	1.45
45	45/51	---	---	ND	---	0.967
46		---	---	ND	---	0.484
47	44/47/65	---	---	ND	---	1.45
48		---	---	ND	---	0.484

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
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X = Outside QC Limits
RT = Retention Time
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ng's = Nanograms

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 050918
Lab Sample ID 30252201003
Filename P180522A_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.967
50	50/53	---	---	ND	---	0.967
51	45/51	---	---	ND	---	0.967
52		---	---	ND	---	1.49
53	50/53	---	---	ND	---	0.967
54		---	---	ND	---	0.484
55		---	---	ND	---	0.484
56		---	---	ND	---	0.484
57		---	---	ND	---	0.484
58		---	---	ND	---	0.484
59	59/62/75	---	---	ND	---	1.45
60		---	---	ND	---	0.484
61	61/70/74/76	---	---	ND	---	1.93
62	59/62/75	---	---	ND	---	1.45
63		---	---	ND	---	0.484
64		---	---	ND	---	0.484
65	44/47/65	---	---	ND	---	1.45
66		---	---	ND	---	0.812
67		---	---	ND	---	0.484
68		---	---	ND	---	0.484
69	49/69	---	---	ND	---	0.967
70	61/70/74/76	---	---	ND	---	1.93
71	40/41/71	---	---	ND	---	1.45
72		---	---	ND	---	0.484
73	43/73	---	---	ND	---	0.484
74	61/70/74/76	---	---	ND	---	1.93
75	59/62/75	---	---	ND	---	1.45
76	61/70/74/76	---	---	ND	---	1.93
77		---	---	ND	---	0.484
78		---	---	ND	---	0.484
79		---	---	ND	---	0.484
80		---	---	ND	---	0.484
81		---	---	ND	---	0.484
82		---	---	ND	---	0.484
83		---	---	ND	---	0.484
84		---	---	ND	---	0.484
85	85/116/117	---	---	ND	---	1.45
86	86/87/97/108/119/125	---	---	ND	---	2.90
87	86/87/97/108/119/125	---	---	ND	---	2.90
88	88/91	---	---	ND	---	0.967
89		---	---	ND	---	0.484
90	90/101/113	---	---	ND	---	1.45
91	88/91	---	---	ND	---	0.967
92		---	---	ND	---	0.484
93	93/98/100/102	---	---	ND	---	1.93
94		---	---	ND	---	0.484
95		---	---	ND	---	0.919
96		---	---	ND	---	0.484

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 050918
Lab Sample ID 30252201003
Filename P180522A_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	2.90
98	93/98/100/102	---	---	ND	---	1.93
99		---	---	ND	---	0.484
100	93/98/100/102	---	---	ND	---	1.93
101	90/101/113	---	---	ND	---	1.45
102	93/98/100/102	---	---	ND	---	1.93
103		---	---	ND	---	0.484
104		---	---	ND	---	0.484
105		---	---	ND	---	0.484
106		---	---	ND	---	0.484
107	107/124	---	---	ND	---	0.967
108	86/87/97/108/119/125	---	---	ND	---	2.90
109		---	---	ND	---	0.484
110	110/115	---	---	ND	---	0.967
111		---	---	ND	---	0.484
112		---	---	ND	---	0.484
113	90/101/113	---	---	ND	---	1.45
114		---	---	ND	---	0.484
115	110/115	---	---	ND	---	0.967
116	85/116/117	---	---	ND	---	1.45
117	85/116/117	---	---	ND	---	1.45
118		---	---	ND	---	0.619
119	86/87/97/108/119/125	---	---	ND	---	2.90
120		---	---	ND	---	0.484
121		---	---	ND	---	0.484
122		---	---	ND	---	0.484
123		---	---	ND	---	0.484
124	107/124	---	---	ND	---	0.967
125	86/87/97/108/119/125	---	---	ND	---	2.90
126		---	---	ND	---	0.484
127		---	---	ND	---	0.484
128	128/166	---	---	ND	---	0.967
129	129/138/163	---	---	ND	---	1.45
130		---	---	ND	---	0.484
131		---	---	ND	---	0.484
132		---	---	ND	---	0.484
133		---	---	ND	---	0.484
134	134/143	---	---	ND	---	0.967
135	135/151	---	---	ND	---	0.967
136		---	---	ND	---	0.484
137		---	---	ND	---	0.484
138	129/138/163	---	---	ND	---	1.45
139	139/140	---	---	ND	---	0.967
140	139/140	---	---	ND	---	0.967
141		---	---	ND	---	0.484
142		---	---	ND	---	0.484
143	134/143	---	---	ND	---	0.967
144		---	---	ND	---	0.484

Conc = Concentration
EML = Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
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Pace AnalyticalTM

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 050918
Lab Sample ID 30252201003
Filename P180522A_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.484
146		---	---	ND	---	0.484
147	147/149	---	---	ND	---	0.967
148		---	---	ND	---	0.484
149	147/149	---	---	ND	---	0.967
150		---	---	ND	---	0.484
151	135/151	---	---	ND	---	0.967
152		---	---	ND	---	0.484
153	153/168	---	---	ND	---	0.967
154		---	---	ND	---	0.484
155		---	---	ND	---	0.484
156	156/157	---	---	ND	---	0.967
157	156/157	---	---	ND	---	0.967
158		---	---	ND	---	0.484
159		---	---	ND	---	0.484
160		---	---	ND	---	0.484
161		---	---	ND	---	0.484
162		---	---	ND	---	0.484
163	129/138/163	---	---	ND	---	1.45
164		---	---	ND	---	0.484
165		---	---	ND	---	0.484
166	128/166	---	---	ND	---	0.967
167		---	---	ND	---	0.484
168	153/168	---	---	ND	---	0.967
169		---	---	ND	---	0.484
170		---	---	ND	---	0.484
171	171/173	---	---	ND	---	0.967
172		---	---	ND	---	0.484
173	171/173	---	---	ND	---	0.967
174		---	---	ND	---	0.484
175		---	---	ND	---	0.484
176		---	---	ND	---	0.484
177		---	---	ND	---	0.484
178		---	---	ND	---	0.484
179		---	---	ND	---	0.484
180	180/193	---	---	ND	---	0.967
181		---	---	ND	---	0.484
182		---	---	ND	---	0.484
183	183/185	---	---	ND	---	0.967
184		---	---	ND	---	0.484
185	183/185	---	---	ND	---	0.967
186		---	---	ND	---	0.484
187		---	---	ND	---	0.484
188		---	---	ND	---	0.484
189		---	---	ND	---	0.484
190		---	---	ND	---	0.484
191		---	---	ND	---	0.484
192		---	---	ND	---	0.484

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 050918
Lab Sample ID 30252201003
Filename P180522A_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.967
194		---	---	ND	---	0.725
195		---	---	ND	---	0.725
196		---	---	ND	---	0.725
197	197/200	---	---	ND	---	1.45
198	198/199	---	---	ND	---	1.45
199	198/199	---	---	ND	---	1.45
200	197/200	---	---	ND	---	1.45
201		---	---	ND	---	0.725
202		---	---	ND	---	0.725
203		---	---	ND	---	0.725
204		---	---	ND	---	0.725
205		---	---	ND	---	0.725
206		---	---	ND	---	0.725
207		---	---	ND	---	0.725
208		---	---	ND	---	0.725
209		---	---	ND	---	0.725

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 050918
Lab Sample ID 30252201003
Filename P180522A_08

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	206
Total Dichloro Biphenyls	23.8
Total Trichloro Biphenyls	5.42
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
 Total PCBs	 235

ND = Not Detected

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 080818
Lab Sample ID 30261592001
Filename P180818A_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.256
2		---	---	ND	---	0.256
3		---	---	ND	---	0.256
4		---	---	ND	---	0.256
5		---	---	ND	---	0.256
6		---	---	ND	---	0.256
7		---	---	ND	---	0.256
8		---	---	ND	---	0.256
9		---	---	ND	---	0.256
10		---	---	ND	---	0.256
11		---	---	ND	---	2.51
12	12/13	---	---	ND	---	0.512
13	12/13	---	---	ND	---	0.512
14		---	---	ND	---	0.256
15		---	---	ND	---	0.338
16		---	---	ND	---	0.256
17		---	---	ND	---	0.256
18	18/30	---	---	ND	---	0.512
19		---	---	ND	---	0.256
20	20/28	---	---	ND	---	1.32
21	21/33	---	---	ND	---	1.38
22		---	---	ND	---	0.973
23		---	---	ND	---	0.256
24		---	---	ND	---	0.256
25		---	---	ND	---	0.256
26	26/29	---	---	ND	---	0.512
27		---	---	ND	---	0.256
28	20/28	---	---	ND	---	1.32
29	26/29	---	---	ND	---	0.512
30	18/30	---	---	ND	---	0.512
31		---	---	ND	---	1.33
32		---	---	ND	---	0.256
33	21/33	---	---	ND	---	1.38
34		---	---	ND	---	0.256
35		---	---	ND	---	0.256
36		---	---	ND	---	0.256
37		---	---	ND	---	0.543
38		---	---	ND	---	0.256
39		---	---	ND	---	0.256
40	40/41/71	---	---	ND	---	1.54
41	40/41/71	---	---	ND	---	1.54
42		---	---	ND	---	0.512
43	43/73	---	---	ND	---	0.512
44	44/47/65	---	---	ND	---	1.54
45	45/51	---	---	ND	---	1.02
46		---	---	ND	---	0.512
47	44/47/65	---	---	ND	---	1.54
48		---	---	ND	---	0.512

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 080818
Lab Sample ID 30261592001
Filename P180818A_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	1.02
50	50/53	---	---	ND	---	1.02
51	45/51	---	---	ND	---	1.02
52		---	---	ND	---	1.58
53	50/53	---	---	ND	---	1.02
54		---	---	ND	---	0.512
55		---	---	ND	---	0.512
56		---	---	ND	---	0.512
57		---	---	ND	---	0.512
58		---	---	ND	---	0.512
59	59/62/75	---	---	ND	---	1.54
60		---	---	ND	---	0.512
61	61/70/74/76	---	---	ND	---	2.05
62	59/62/75	---	---	ND	---	1.54
63		---	---	ND	---	0.512
64		---	---	ND	---	0.512
65	44/47/65	---	---	ND	---	1.54
66		---	---	ND	---	0.860
67		---	---	ND	---	0.512
68		---	---	ND	---	0.512
69	49/69	---	---	ND	---	1.02
70	61/70/74/76	---	---	ND	---	2.05
71	40/41/71	---	---	ND	---	1.54
72		---	---	ND	---	0.512
73	43/73	---	---	ND	---	0.512
74	61/70/74/76	---	---	ND	---	2.05
75	59/62/75	---	---	ND	---	1.54
76	61/70/74/76	---	---	ND	---	2.05
77		---	---	ND	---	0.512
78		---	---	ND	---	0.512
79		---	---	ND	---	0.512
80		---	---	ND	---	0.512
81		---	---	ND	---	0.512
82		---	---	ND	---	0.512
83		---	---	ND	---	0.512
84		---	---	ND	---	0.512
85	85/116/117	---	---	ND	---	1.54
86	86/87/97/108/119/125	---	---	ND	---	3.07
87	86/87/97/108/119/125	---	---	ND	---	3.07
88	88/91	---	---	ND	---	1.02
89		---	---	ND	---	0.512
90	90/101/113	---	---	ND	---	1.54
91	88/91	---	---	ND	---	1.02
92		---	---	ND	---	0.512
93	93/98/100/102	---	---	ND	---	2.05
94		---	---	ND	---	0.512
95		---	---	ND	---	0.973
96		---	---	ND	---	0.512

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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REPORT OF LABORATORY ANALYSIS

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Pace AnalyticalTM

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 080818
Lab Sample ID 30261592001
Filename P180818A_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	3.07
98	93/98/100/102	---	---	ND	---	2.05
99		---	---	ND	---	0.512
100	93/98/100/102	---	---	ND	---	2.05
101	90/101/113	---	---	ND	---	1.54
102	93/98/100/102	---	---	ND	---	2.05
103		---	---	ND	---	0.512
104		---	---	ND	---	0.512
105		---	---	ND	---	0.512
106		---	---	ND	---	0.512
107	107/124	---	---	ND	---	1.02
108	86/87/97/108/119/125	---	---	ND	---	3.07
109		---	---	ND	---	0.512
110	110/115	---	---	ND	---	1.02
111		---	---	ND	---	0.512
112		---	---	ND	---	0.512
113	90/101/113	---	---	ND	---	1.54
114		---	---	ND	---	0.512
115	110/115	---	---	ND	---	1.02
116	85/116/117	---	---	ND	---	1.54
117	85/116/117	---	---	ND	---	1.54
118		---	---	ND	---	0.655
119	86/87/97/108/119/125	---	---	ND	---	3.07
120		---	---	ND	---	0.512
121		---	---	ND	---	0.512
122		---	---	ND	---	0.512
123		---	---	ND	---	0.512
124	107/124	---	---	ND	---	1.02
125	86/87/97/108/119/125	---	---	ND	---	3.07
126		---	---	ND	---	0.512
127		---	---	ND	---	0.512
128	128/166	---	---	ND	---	1.02
129	129/138/163	---	---	ND	---	1.54
130		---	---	ND	---	0.512
131		---	---	ND	---	0.512
132		---	---	ND	---	0.512
133		---	---	ND	---	0.512
134	134/143	---	---	ND	---	1.02
135	135/151	---	---	ND	---	1.02
136		---	---	ND	---	0.512
137		---	---	ND	---	0.512
138	129/138/163	---	---	ND	---	1.54
139	139/140	---	---	ND	---	1.02
140	139/140	---	---	ND	---	1.02
141		---	---	ND	---	0.512
142		---	---	ND	---	0.512
143	134/143	---	---	ND	---	1.02
144		---	---	ND	---	0.512

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 080818
Lab Sample ID 30261592001
Filename P180818A_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.512
146		---	---	ND	---	0.512
147	147/149	---	---	ND	---	1.02
148		---	---	ND	---	0.512
149	147/149	---	---	ND	---	1.02
150		---	---	ND	---	0.512
151	135/151	---	---	ND	---	1.02
152		---	---	ND	---	0.512
153	153/168	---	---	ND	---	1.02
154		---	---	ND	---	0.512
155		---	---	ND	---	0.512
156	156/157	---	---	ND	---	1.02
157	156/157	---	---	ND	---	1.02
158		---	---	ND	---	0.512
159		---	---	ND	---	0.512
160		---	---	ND	---	0.512
161		---	---	ND	---	0.512
162		---	---	ND	---	0.512
163	129/138/163	---	---	ND	---	1.54
164		---	---	ND	---	0.512
165		---	---	ND	---	0.512
166	128/166	---	---	ND	---	1.02
167		---	---	ND	---	0.512
168	153/168	---	---	ND	---	1.02
169		---	---	ND	---	0.512
170		---	---	ND	---	0.512
171	171/173	---	---	ND	---	1.02
172		---	---	ND	---	0.512
173	171/173	---	---	ND	---	1.02
174		---	---	ND	---	0.512
175		---	---	ND	---	0.512
176		---	---	ND	---	0.512
177		---	---	ND	---	0.512
178		---	---	ND	---	0.512
179		---	---	ND	---	0.512
180	180/193	---	---	ND	---	1.02
181		---	---	ND	---	0.512
182		---	---	ND	---	0.512
183	183/185	---	---	ND	---	1.02
184		---	---	ND	---	0.512
185	183/185	---	---	ND	---	1.02
186		---	---	ND	---	0.512
187		---	---	ND	---	0.512
188		---	---	ND	---	0.512
189		---	---	ND	---	0.512
190		---	---	ND	---	0.512
191		---	---	ND	---	0.512
192		---	---	ND	---	0.512

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 080818
Lab Sample ID 30261592001
Filename P180818A_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	1.02
194		---	---	ND	---	0.768
195		---	---	ND	---	0.768
196		---	---	ND	---	0.768
197	197/200	---	---	ND	---	1.54
198	198/199	---	---	ND	---	1.54
199	198/199	---	---	ND	---	1.54
200	197/200	---	---	ND	---	1.54
201		---	---	ND	---	0.768
202		---	---	ND	---	0.768
203		---	---	ND	---	0.768
204		---	---	ND	---	0.768
205		---	---	ND	---	0.768
206		---	---	ND	---	0.768
207		---	---	ND	---	0.768
208		---	---	ND	---	0.768
209		---	---	ND	---	0.768

Conc = Concentration
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EMPC = Estimated Maximum Possible Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 080818
Lab Sample ID 30261592001
Filename P180818A_08

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

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Tel: 612-607-1700
Fax: 612- 607-6444

**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 080818
Lab Sample ID 30261592002
Filename P180818A_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		9.552	3.27	33.1	---	0.244
2		12.176	3.16	24.7	---	0.244
3		12.415	3.17	12.0	---	0.244
4		12.703	1.51	5.87	---	0.244
5		---	---	ND	---	0.244
6		15.684	1.34	0.638	---	0.244
7		---	---	ND	---	0.244
8		16.211	1.57	2.10	---	0.244
9		---	---	ND	---	0.244
10		12.931	1.35	0.270	---	0.244
11		---	---	ND	---	2.39
12	12/13	---	---	ND	---	0.489
13	12/13	---	---	ND	---	0.489
14		---	---	ND	---	0.244
15		---	---	ND	---	0.323
16		19.794	1.15	0.511	---	0.244
17		19.267	0.98	0.334	---	0.244
18	18/30	18.775	1.03	1.09	---	0.489
19		16.559	1.03	0.370	---	0.244
20	20/28	---	---	ND	---	1.26
21	21/33	---	---	ND	---	1.32
22		---	---	ND	---	0.929
23		---	---	ND	---	0.244
24		---	---	ND	---	0.244
25		---	---	ND	---	0.244
26	26/29	---	---	ND	---	0.489
27		---	---	ND	---	0.244
28	20/28	---	---	ND	---	1.26
29	26/29	---	---	ND	---	0.489
30	18/30	18.775	1.03	(1.09)	---	0.489
31		---	---	ND	---	1.27
32		---	---	ND	---	0.244
33	21/33	---	---	ND	---	1.32
34		---	---	ND	---	0.244
35		---	---	ND	---	0.244
36		---	---	ND	---	0.244
37		---	---	ND	---	0.518
38		---	---	ND	---	0.244
39		---	---	ND	---	0.244
40	40/41/71	---	---	ND	---	1.47
41	40/41/71	---	---	ND	---	1.47
42		---	---	ND	---	0.489
43	43/73	---	---	ND	---	0.489
44	44/47/65	---	---	ND	---	1.47
45	45/51	---	---	ND	---	0.977
46		---	---	ND	---	0.489
47	44/47/65	---	---	ND	---	1.47
48		---	---	ND	---	0.489

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 080818
Lab Sample ID 30261592002
Filename P180818A_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.977
50	50/53	---	---	ND	---	0.977
51	45/51	---	---	ND	---	0.977
52		---	---	ND	---	1.51
53	50/53	---	---	ND	---	0.977
54		---	---	ND	---	0.489
55		---	---	ND	---	0.489
56		---	---	ND	---	0.489
57		---	---	ND	---	0.489
58		---	---	ND	---	0.489
59	59/62/75	---	---	ND	---	1.47
60		---	---	ND	---	0.489
61	61/70/74/76	---	---	ND	---	1.95
62	59/62/75	---	---	ND	---	1.47
63		---	---	ND	---	0.489
64		---	---	ND	---	0.489
65	44/47/65	---	---	ND	---	1.47
66		---	---	ND	---	0.821
67		---	---	ND	---	0.489
68		---	---	ND	---	0.489
69	49/69	---	---	ND	---	0.977
70	61/70/74/76	---	---	ND	---	1.95
71	40/41/71	---	---	ND	---	1.47
72		---	---	ND	---	0.489
73	43/73	---	---	ND	---	0.489
74	61/70/74/76	---	---	ND	---	1.95
75	59/62/75	---	---	ND	---	1.47
76	61/70/74/76	---	---	ND	---	1.95
77		---	---	ND	---	0.489
78		---	---	ND	---	0.489
79		---	---	ND	---	0.489
80		---	---	ND	---	0.489
81		---	---	ND	---	0.489
82		---	---	ND	---	0.489
83		---	---	ND	---	0.489
84		---	---	ND	---	0.489
85	85/116/117	---	---	ND	---	1.47
86	86/87/97/108/119/125	---	---	ND	---	2.93
87	86/87/97/108/119/125	---	---	ND	---	2.93
88	88/91	---	---	ND	---	0.977
89		---	---	ND	---	0.489
90	90/101/113	---	---	ND	---	1.47
91	88/91	---	---	ND	---	0.977
92		---	---	ND	---	0.489
93	93/98/100/102	---	---	ND	---	1.95
94		---	---	ND	---	0.489
95		---	---	ND	---	0.929
96		---	---	ND	---	0.489

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 080818
Lab Sample ID 30261592002
Filename P180818A_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	2.93
98	93/98/100/102	---	---	ND	---	1.95
99		---	---	ND	---	0.489
100	93/98/100/102	---	---	ND	---	1.95
101	90/101/113	---	---	ND	---	1.47
102	93/98/100/102	---	---	ND	---	1.95
103		---	---	ND	---	0.489
104		---	---	ND	---	0.489
105		---	---	ND	---	0.489
106		---	---	ND	---	0.489
107	107/124	---	---	ND	---	0.977
108	86/87/97/108/119/125	---	---	ND	---	2.93
109		---	---	ND	---	0.489
110	110/115	---	---	ND	---	0.977
111		---	---	ND	---	0.489
112		---	---	ND	---	0.489
113	90/101/113	---	---	ND	---	1.47
114		---	---	ND	---	0.489
115	110/115	---	---	ND	---	0.977
116	85/116/117	---	---	ND	---	1.47
117	85/116/117	---	---	ND	---	1.47
118		---	---	ND	---	0.626
119	86/87/97/108/119/125	---	---	ND	---	2.93
120		---	---	ND	---	0.489
121		---	---	ND	---	0.489
122		---	---	ND	---	0.489
123		---	---	ND	---	0.489
124	107/124	---	---	ND	---	0.977
125	86/87/97/108/119/125	---	---	ND	---	2.93
126		---	---	ND	---	0.489
127		---	---	ND	---	0.489
128	128/166	---	---	ND	---	0.977
129	129/138/163	---	---	ND	---	1.47
130		---	---	ND	---	0.489
131		---	---	ND	---	0.489
132		---	---	ND	---	0.489
133		---	---	ND	---	0.489
134	134/143	---	---	ND	---	0.977
135	135/151	---	---	ND	---	0.977
136		---	---	ND	---	0.489
137		---	---	ND	---	0.489
138	129/138/163	---	---	ND	---	1.47
139	139/140	---	---	ND	---	0.977
140	139/140	---	---	ND	---	0.977
141		---	---	ND	---	0.489
142		---	---	ND	---	0.489
143	134/143	---	---	ND	---	0.977
144		---	---	ND	---	0.489

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 080818
Lab Sample ID 30261592002
Filename P180818A_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.489
146		---	---	ND	---	0.489
147	147/149	---	---	ND	---	0.977
148		---	---	ND	---	0.489
149	147/149	---	---	ND	---	0.977
150		---	---	ND	---	0.489
151	135/151	---	---	ND	---	0.977
152		---	---	ND	---	0.489
153	153/168	---	---	ND	---	0.977
154		---	---	ND	---	0.489
155		---	---	ND	---	0.489
156	156/157	---	---	ND	---	0.977
157	156/157	---	---	ND	---	0.977
158		---	---	ND	---	0.489
159		---	---	ND	---	0.489
160		---	---	ND	---	0.489
161		---	---	ND	---	0.489
162		---	---	ND	---	0.489
163	129/138/163	---	---	ND	---	1.47
164		---	---	ND	---	0.489
165		---	---	ND	---	0.489
166	128/166	---	---	ND	---	0.977
167		---	---	ND	---	0.489
168	153/168	---	---	ND	---	0.977
169		---	---	ND	---	0.489
170		---	---	ND	---	0.489
171	171/173	---	---	ND	---	0.977
172		---	---	ND	---	0.489
173	171/173	---	---	ND	---	0.977
174		---	---	ND	---	0.489
175		---	---	ND	---	0.489
176		---	---	ND	---	0.489
177		---	---	ND	---	0.489
178		---	---	ND	---	0.489
179		---	---	ND	---	0.489
180	180/193	---	---	ND	---	0.977
181		---	---	ND	---	0.489
182		---	---	ND	---	0.489
183	183/185	---	---	ND	---	0.977
184		---	---	ND	---	0.489
185	183/185	---	---	ND	---	0.977
186		---	---	ND	---	0.489
187		---	---	ND	---	0.489
188		---	---	ND	---	0.489
189		---	---	ND	---	0.489
190		---	---	ND	---	0.489
191		---	---	ND	---	0.489
192		---	---	ND	---	0.489

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 080818
Lab Sample ID 30261592002
Filename P180818A_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.977
194		---	---	ND	---	0.733
195		---	---	ND	---	0.733
196		---	---	ND	---	0.733
197	197/200	---	---	ND	---	1.47
198	198/199	---	---	ND	---	1.47
199	198/199	---	---	ND	---	1.47
200	197/200	---	---	ND	---	1.47
201		---	---	ND	---	0.733
202		---	---	ND	---	0.733
203		---	---	ND	---	0.733
204		---	---	ND	---	0.733
205		---	---	ND	---	0.733
206		---	---	ND	---	0.733
207		---	---	ND	---	0.733
208		---	---	ND	---	0.733
209		---	---	ND	---	0.733

Conc = Concentration
EML = Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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Tel: 612-607-1700
Fax: 612-607-6444

**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 080818
Lab Sample ID 30261592002
Filename P180818A_09

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	69.8
Total Dichloro Biphenyls	8.87
Total Trichloro Biphenyls	2.30
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	81.0

ND = Not Detected

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 080818
Lab Sample ID 30261592003
Filename P180818A_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		9.552	3.18	48.5	---	0.245
2		12.176	3.21	38.1	---	0.245
3		12.415	3.23	14.2	---	0.245
4		12.715	1.56	8.50	---	0.245
5		---	---	ND	---	0.245
6		15.684	1.47	0.909	---	0.245
7		---	---	ND	---	0.245
8		16.223	1.52	3.11	---	0.245
9		15.181	1.63	0.290	---	0.245
10		12.918	1.53	0.348	---	0.245
11		---	---	ND	---	2.40
12	12/13	---	---	ND	---	0.491
13	12/13	---	---	ND	---	0.491
14		---	---	ND	---	0.245
15		---	---	ND	---	0.324
16		19.794	0.99	0.621	---	0.245
17		19.255	0.98	0.379	---	0.245
18	18/30	18.776	1.05	1.27	---	0.491
19		16.559	1.04	0.501	---	0.245
20	20/28	---	---	ND	---	1.27
21	21/33	---	---	ND	---	1.33
22		---	---	ND	---	0.932
23		---	---	ND	---	0.245
24		---	---	ND	---	0.245
25		---	---	ND	---	0.245
26	26/29	---	---	ND	---	0.491
27		---	---	ND	---	0.245
28	20/28	---	---	ND	---	1.27
29	26/29	---	---	ND	---	0.491
30	18/30	18.776	1.05	(1.27)	---	0.491
31		---	---	ND	---	1.28
32		---	---	ND	---	0.245
33	21/33	---	---	ND	---	1.33
34		---	---	ND	---	0.245
35		---	---	ND	---	0.245
36		---	---	ND	---	0.245
37		---	---	ND	---	0.520
38		---	---	ND	---	0.245
39		---	---	ND	---	0.245
40	40/41/71	---	---	ND	---	1.47
41	40/41/71	---	---	ND	---	1.47
42		---	---	ND	---	0.491
43	43/73	---	---	ND	---	0.491
44	44/47/65	---	---	ND	---	1.47
45	45/51	---	---	ND	---	0.981
46		---	---	ND	---	0.491
47	44/47/65	---	---	ND	---	1.47
48		---	---	ND	---	0.491

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 080818
Lab Sample ID 30261592003
Filename P180818A_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.981
50	50/53	---	---	ND	---	0.981
51	45/51	---	---	ND	---	0.981
52		---	---	ND	---	1.51
53	50/53	---	---	ND	---	0.981
54		---	---	ND	---	0.491
55		---	---	ND	---	0.491
56		---	---	ND	---	0.491
57		---	---	ND	---	0.491
58		---	---	ND	---	0.491
59	59/62/75	---	---	ND	---	1.47
60		---	---	ND	---	0.491
61	61/70/74/76	---	---	ND	---	1.96
62	59/62/75	---	---	ND	---	1.47
63		---	---	ND	---	0.491
64		---	---	ND	---	0.491
65	44/47/65	---	---	ND	---	1.47
66		---	---	ND	---	0.824
67		---	---	ND	---	0.491
68		---	---	ND	---	0.491
69	49/69	---	---	ND	---	0.981
70	61/70/74/76	---	---	ND	---	1.96
71	40/41/71	---	---	ND	---	1.47
72		---	---	ND	---	0.491
73	43/73	---	---	ND	---	0.491
74	61/70/74/76	---	---	ND	---	1.96
75	59/62/75	---	---	ND	---	1.47
76	61/70/74/76	---	---	ND	---	1.96
77		---	---	ND	---	0.491
78		---	---	ND	---	0.491
79		---	---	ND	---	0.491
80		---	---	ND	---	0.491
81		---	---	ND	---	0.491
82		---	---	ND	---	0.491
83		---	---	ND	---	0.491
84		---	---	ND	---	0.491
85	85/116/117	---	---	ND	---	1.47
86	86/87/97/108/119/125	---	---	ND	---	2.94
87	86/87/97/108/119/125	---	---	ND	---	2.94
88	88/91	---	---	ND	---	0.981
89		---	---	ND	---	0.491
90	90/101/113	---	---	ND	---	1.47
91	88/91	---	---	ND	---	0.981
92		---	---	ND	---	0.491
93	93/98/100/102	---	---	ND	---	1.96
94		---	---	ND	---	0.491
95		---	---	ND	---	0.932
96		---	---	ND	---	0.491

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 080818
Lab Sample ID 30261592003
Filename P180818A_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	2.94
98	93/98/100/102	---	---	ND	---	1.96
99		---	---	ND	---	0.491
100	93/98/100/102	---	---	ND	---	1.96
101	90/101/113	---	---	ND	---	1.47
102	93/98/100/102	---	---	ND	---	1.96
103		---	---	ND	---	0.491
104		---	---	ND	---	0.491
105		---	---	ND	---	0.491
106		---	---	ND	---	0.491
107	107/124	---	---	ND	---	0.981
108	86/87/97/108/119/125	---	---	ND	---	2.94
109		---	---	ND	---	0.491
110	110/115	---	---	ND	---	0.981
111		---	---	ND	---	0.491
112		---	---	ND	---	0.491
113	90/101/113	---	---	ND	---	1.47
114		---	---	ND	---	0.491
115	110/115	---	---	ND	---	0.981
116	85/116/117	---	---	ND	---	1.47
117	85/116/117	---	---	ND	---	1.47
118		---	---	ND	---	0.628
119	86/87/97/108/119/125	---	---	ND	---	2.94
120		---	---	ND	---	0.491
121		---	---	ND	---	0.491
122		---	---	ND	---	0.491
123		---	---	ND	---	0.491
124	107/124	---	---	ND	---	0.981
125	86/87/97/108/119/125	---	---	ND	---	2.94
126		---	---	ND	---	0.491
127		---	---	ND	---	0.491
128	128/166	---	---	ND	---	0.981
129	129/138/163	---	---	ND	---	1.47
130		---	---	ND	---	0.491
131		---	---	ND	---	0.491
132		---	---	ND	---	0.491
133		---	---	ND	---	0.491
134	134/143	---	---	ND	---	0.981
135	135/151	---	---	ND	---	0.981
136		---	---	ND	---	0.491
137		---	---	ND	---	0.491
138	129/138/163	---	---	ND	---	1.47
139	139/140	---	---	ND	---	0.981
140	139/140	---	---	ND	---	0.981
141		---	---	ND	---	0.491
142		---	---	ND	---	0.491
143	134/143	---	---	ND	---	0.981
144		---	---	ND	---	0.491

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 080818
Lab Sample ID 30261592003
Filename P180818A_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.491
146		---	---	ND	---	0.491
147	147/149	---	---	ND	---	0.981
148		---	---	ND	---	0.491
149	147/149	---	---	ND	---	0.981
150		---	---	ND	---	0.491
151	135/151	---	---	ND	---	0.981
152		---	---	ND	---	0.491
153	153/168	---	---	ND	---	0.981
154		---	---	ND	---	0.491
155		---	---	ND	---	0.491
156	156/157	---	---	ND	---	0.981
157	156/157	---	---	ND	---	0.981
158		---	---	ND	---	0.491
159		---	---	ND	---	0.491
160		---	---	ND	---	0.491
161		---	---	ND	---	0.491
162		---	---	ND	---	0.491
163	129/138/163	---	---	ND	---	1.47
164		---	---	ND	---	0.491
165		---	---	ND	---	0.491
166	128/166	---	---	ND	---	0.981
167		---	---	ND	---	0.491
168	153/168	---	---	ND	---	0.981
169		---	---	ND	---	0.491
170		---	---	ND	---	0.491
171	171/173	---	---	ND	---	0.981
172		---	---	ND	---	0.491
173	171/173	---	---	ND	---	0.981
174		---	---	ND	---	0.491
175		---	---	ND	---	0.491
176		---	---	ND	---	0.491
177		---	---	ND	---	0.491
178		---	---	ND	---	0.491
179		---	---	ND	---	0.491
180	180/193	---	---	ND	---	0.981
181		---	---	ND	---	0.491
182		---	---	ND	---	0.491
183	183/185	---	---	ND	---	0.981
184		---	---	ND	---	0.491
185	183/185	---	---	ND	---	0.981
186		---	---	ND	---	0.491
187		---	---	ND	---	0.491
188		---	---	ND	---	0.491
189		---	---	ND	---	0.491
190		---	---	ND	---	0.491
191		---	---	ND	---	0.491
192		---	---	ND	---	0.491

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 080818
Lab Sample ID 30261592003
Filename P180818A_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.981
194		---	---	ND	---	0.736
195		---	---	ND	---	0.736
196		---	---	ND	---	0.736
197	197/200	---	---	ND	---	1.47
198	198/199	---	---	ND	---	1.47
199	198/199	---	---	ND	---	1.47
200	197/200	---	---	ND	---	1.47
201		---	---	ND	---	0.736
202		---	---	ND	---	0.736
203		---	---	ND	---	0.736
204		---	---	ND	---	0.736
205		---	---	ND	---	0.736
206		---	---	ND	---	0.736
207		---	---	ND	---	0.736
208		---	---	ND	---	0.736
209		---	---	ND	---	0.736

Conc = Concentration
EML = Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 080818
Lab Sample ID 30261592003
Filename P180818A_10

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	101
Total Dichloro Biphenyls	13.2
Total Trichloro Biphenyls	2.77
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
 Total PCBs	 117

ND = Not Detected

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID TS Effluent 110718
Lab Sample ID 30270719001
Filename Y181119B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.239
2		---	---	ND	---	0.239
3		---	---	ND	---	0.239
4		---	---	ND	---	0.239
5		---	---	ND	---	0.239
6		---	---	ND	---	0.239
7		---	---	ND	---	0.239
8		---	---	ND	---	0.239
9		---	---	ND	---	0.239
10		---	---	ND	---	0.239
11		---	---	ND	---	1.43
12	12/13	---	---	ND	---	0.477
13	12/13	---	---	ND	---	0.477
14		---	---	ND	---	0.239
15		---	---	ND	---	0.239
16		---	---	ND	---	0.239
17		---	---	ND	---	0.239
18	18/30	---	---	ND	---	0.477
19		---	---	ND	---	0.239
20	20/28	---	---	ND	---	0.477
21	21/33	---	---	ND	---	0.477
22		---	---	ND	---	0.239
23		---	---	ND	---	0.239
24		---	---	ND	---	0.239
25		---	---	ND	---	0.239
26	26/29	---	---	ND	---	0.477
27		---	---	ND	---	0.239
28	20/28	---	---	ND	---	0.477
29	26/29	---	---	ND	---	0.477
30	18/30	---	---	ND	---	0.477
31		---	---	ND	---	0.239
32		---	---	ND	---	0.239
33	21/33	---	---	ND	---	0.477
34		---	---	ND	---	0.239
35		---	---	ND	---	0.239
36		---	---	ND	---	0.239
37		---	---	ND	---	0.239
38		---	---	ND	---	0.239
39		---	---	ND	---	0.239
40	40/41/71	---	---	ND	---	1.43
41	40/41/71	---	---	ND	---	1.43
42		---	---	ND	---	0.477
43	43/73	---	---	ND	---	0.477
44	44/47/65	---	---	ND	---	1.43
45	45/51	---	---	ND	---	0.954
46		---	---	ND	---	0.477
47	44/47/65	---	---	ND	---	1.43
48		---	---	ND	---	0.477

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 110718
Lab Sample ID 30270719001
Filename Y181119B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.954
50	50/53	---	---	ND	---	0.954
51	45/51	---	---	ND	---	0.954
52		---	---	ND	---	0.477
53	50/53	---	---	ND	---	0.954
54		---	---	ND	---	0.477
55		---	---	ND	---	0.477
56		---	---	ND	---	0.477
57		---	---	ND	---	0.477
58		---	---	ND	---	0.477
59	59/62/75	---	---	ND	---	1.43
60		---	---	ND	---	0.477
61	61/70/74/76	---	---	ND	---	1.91
62	59/62/75	---	---	ND	---	1.43
63		---	---	ND	---	0.477
64		---	---	ND	---	0.477
65	44/47/65	---	---	ND	---	1.43
66		---	---	ND	---	0.477
67		---	---	ND	---	0.477
68		---	---	ND	---	0.477
69	49/69	---	---	ND	---	0.954
70	61/70/74/76	---	---	ND	---	1.91
71	40/41/71	---	---	ND	---	1.43
72		---	---	ND	---	0.477
73	43/73	---	---	ND	---	0.477
74	61/70/74/76	---	---	ND	---	1.91
75	59/62/75	---	---	ND	---	1.43
76	61/70/74/76	---	---	ND	---	1.91
77		---	---	ND	---	0.477
78		---	---	ND	---	0.477
79		---	---	ND	---	0.477
80		---	---	ND	---	0.477
81		---	---	ND	---	0.477
82		---	---	ND	---	0.477
83		---	---	ND	---	0.477
84		---	---	ND	---	0.477
85	85/116/117	---	---	ND	---	1.43
86	86/87/97/108/119/125	---	---	ND	---	2.86
87	86/87/97/108/119/125	---	---	ND	---	2.86
88	88/91	---	---	ND	---	0.954
89		---	---	ND	---	0.477
90	90/101/113	---	---	ND	---	1.43
91	88/91	---	---	ND	---	0.954
92		---	---	ND	---	0.477
93	93/98/100/102	---	---	ND	---	1.91
94		---	---	ND	---	0.477
95		---	---	ND	---	0.477
96		---	---	ND	---	0.477

Conc = Concentration
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Pace AnalyticalTM

Pace Analytical Services, LLC.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID TS Effluent 110718
Lab Sample ID 30270719001
Filename Y181119B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	2.86
98	93/98/100/102	---	---	ND	---	1.91
99		---	---	ND	---	0.477
100	93/98/100/102	---	---	ND	---	1.91
101	90/101/113	---	---	ND	---	1.43
102	93/98/100/102	---	---	ND	---	1.91
103		---	---	ND	---	0.477
104		---	---	ND	---	0.477
105		---	---	ND	---	0.477
106		---	---	ND	---	0.477
107	107/124	---	---	ND	---	0.954
108	86/87/97/108/119/125	---	---	ND	---	2.86
109		---	---	ND	---	0.477
110	110/115	---	---	ND	---	0.954
111		---	---	ND	---	0.477
112		---	---	ND	---	0.477
113	90/101/113	---	---	ND	---	1.43
114		---	---	ND	---	0.477
115	110/115	---	---	ND	---	0.954
116	85/116/117	---	---	ND	---	1.43
117	85/116/117	---	---	ND	---	1.43
118		---	---	ND	---	0.477
119	86/87/97/108/119/125	---	---	ND	---	2.86
120		---	---	ND	---	0.477
121		---	---	ND	---	0.477
122		---	---	ND	---	0.477
123		---	---	ND	---	0.477
124	107/124	---	---	ND	---	0.954
125	86/87/97/108/119/125	---	---	ND	---	2.86
126		---	---	ND	---	0.477
127		---	---	ND	---	0.477
128	128/166	---	---	ND	---	0.954
129	129/138/163	---	---	ND	---	1.43
130		---	---	ND	---	0.477
131		---	---	ND	---	0.477
132		---	---	ND	---	0.477
133		---	---	ND	---	0.477
134	134/143	---	---	ND	---	0.954
135	135/151	---	---	ND	---	0.954
136		---	---	ND	---	0.477
137		---	---	ND	---	0.477
138	129/138/163	---	---	ND	---	1.43
139	139/140	---	---	ND	---	0.954
140	139/140	---	---	ND	---	0.954
141		---	---	ND	---	0.477
142		---	---	ND	---	0.477
143	134/143	---	---	ND	---	0.954
144		---	---	ND	---	0.477

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Pace AnalyticalTM

Pace Analytical Services, LLC.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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Fax: 612-607-6444

**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 110718
Lab Sample ID 30270719001
Filename Y181119B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.477
146		---	---	ND	---	0.477
147	147/149	---	---	ND	---	0.954
148		---	---	ND	---	0.477
149	147/149	---	---	ND	---	0.954
150		---	---	ND	---	0.477
151	135/151	---	---	ND	---	0.954
152		---	---	ND	---	0.477
153	153/168	---	---	ND	---	0.954
154		---	---	ND	---	0.477
155		---	---	ND	---	0.477
156	156/157	---	---	ND	---	0.954
157	156/157	---	---	ND	---	0.954
158		---	---	ND	---	0.477
159		---	---	ND	---	0.477
160		---	---	ND	---	0.477
161		---	---	ND	---	0.477
162		---	---	ND	---	0.477
163	129/138/163	---	---	ND	---	1.43
164		---	---	ND	---	0.477
165		---	---	ND	---	0.477
166	128/166	---	---	ND	---	0.954
167		---	---	ND	---	0.477
168	153/168	---	---	ND	---	0.954
169		---	---	ND	---	0.477
170		---	---	ND	---	0.477
171	171/173	---	---	ND	---	0.954
172		---	---	ND	---	0.477
173	171/173	---	---	ND	---	0.954
174		---	---	ND	---	0.477
175		---	---	ND	---	0.477
176		---	---	ND	---	0.477
177		---	---	ND	---	0.477
178		---	---	ND	---	0.477
179		---	---	ND	---	0.477
180	180/193	---	---	ND	---	0.954
181		---	---	ND	---	0.477
182		---	---	ND	---	0.477
183	183/185	---	---	ND	---	0.954
184		---	---	ND	---	0.477
185	183/185	---	---	ND	---	0.954
186		---	---	ND	---	0.477
187		---	---	ND	---	0.477
188		---	---	ND	---	0.477
189		---	---	ND	---	0.477
190		---	---	ND	---	0.477
191		---	---	ND	---	0.477
192		---	---	ND	---	0.477

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 110718
Lab Sample ID 30270719001
Filename Y181119B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.954
194		---	---	ND	---	0.716
195		---	---	ND	---	0.716
196		---	---	ND	---	0.716
197	197/200	---	---	ND	---	1.43
198	198/199	---	---	ND	---	1.43
199	198/199	---	---	ND	---	1.43
200	197/200	---	---	ND	---	1.43
201		---	---	ND	---	0.716
202		---	---	ND	---	0.716
203		---	---	ND	---	0.716
204		---	---	ND	---	0.716
205		---	---	ND	---	0.716
206		---	---	ND	---	0.716
207		---	---	ND	---	0.716
208		---	---	ND	---	0.716
209		---	---	ND	---	0.716

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID TS Effluent 110718
Lab Sample ID 30270719001
Filename Y181119B_11

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID Influent 110718
Lab Sample ID 30270719002
Filename Y181119B_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		8.553	2.94	112	---	0.239
2		10.949	2.97	74.9	---	0.239
3		11.165	3.09	32.1	---	0.239
4		11.441	1.54	13.8	---	0.239
5		---	---	ND	---	0.239
6		14.206	1.50	1.17	---	0.239
7		---	---	ND	---	0.239
8		14.697	1.50	3.90	---	0.239
9		13.751	1.37	0.377	---	0.239
10		11.644	1.48	0.699	---	0.239
11		---	---	ND	---	1.43
12	12/13	---	---	ND	---	0.478
13	12/13	---	---	ND	---	0.478
14		---	---	ND	---	0.239
15		---	---	ND	---	0.239
16		18.040	1.09	0.725	---	0.239
17		17.549	1.13	0.493	---	0.239
18	18/30	17.105	1.06	1.60	---	0.478
19		15.009	0.99	0.638	---	0.239
20	20/28	---	---	ND	---	0.478
21	21/33	---	---	ND	---	0.478
22		---	---	ND	---	0.239
23		---	---	ND	---	0.239
24		---	---	ND	---	0.239
25		---	---	ND	---	0.239
26	26/29	---	---	ND	---	0.478
27		---	---	ND	---	0.239
28	20/28	---	---	ND	---	0.478
29	26/29	---	---	ND	---	0.478
30	18/30	17.105	1.06	(1.60)	---	0.478
31		21.061	0.98	0.254	---	0.239
32		18.630	1.07	0.290	---	0.239
33	21/33	---	---	ND	---	0.478
34		---	---	ND	---	0.239
35		---	---	ND	---	0.239
36		---	---	ND	---	0.239
37		---	---	ND	---	0.239
38		---	---	ND	---	0.239
39		---	---	ND	---	0.239
40	40/41/71	---	---	ND	---	1.43
41	40/41/71	---	---	ND	---	1.43
42		---	---	ND	---	0.478
43	43/73	---	---	ND	---	0.478
44	44/47/65	---	---	ND	---	1.43
45	45/51	---	---	ND	---	0.956
46		---	---	ND	---	0.478
47	44/47/65	---	---	ND	---	1.43
48		---	---	ND	---	0.478

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 110718
Lab Sample ID 30270719002
Filename Y181119B_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.956
50	50/53	---	---	ND	---	0.956
51	45/51	---	---	ND	---	0.956
52		---	---	ND	---	0.478
53	50/53	---	---	ND	---	0.956
54		---	---	ND	---	0.478
55		---	---	ND	---	0.478
56		---	---	ND	---	0.478
57		---	---	ND	---	0.478
58		---	---	ND	---	0.478
59	59/62/75	---	---	ND	---	1.43
60		---	---	ND	---	0.478
61	61/70/74/76	---	---	ND	---	1.91
62	59/62/75	---	---	ND	---	1.43
63		---	---	ND	---	0.478
64		---	---	ND	---	0.478
65	44/47/65	---	---	ND	---	1.43
66		---	---	ND	---	0.478
67		---	---	ND	---	0.478
68		---	---	ND	---	0.478
69	49/69	---	---	ND	---	0.956
70	61/70/74/76	---	---	ND	---	1.91
71	40/41/71	---	---	ND	---	1.43
72		---	---	ND	---	0.478
73	43/73	---	---	ND	---	0.478
74	61/70/74/76	---	---	ND	---	1.91
75	59/62/75	---	---	ND	---	1.43
76	61/70/74/76	---	---	ND	---	1.91
77		---	---	ND	---	0.478
78		---	---	ND	---	0.478
79		---	---	ND	---	0.478
80		---	---	ND	---	0.478
81		---	---	ND	---	0.478
82		---	---	ND	---	0.478
83		---	---	ND	---	0.478
84		---	---	ND	---	0.478
85	85/116/117	---	---	ND	---	1.43
86	86/87/97/108/119/125	---	---	ND	---	2.87
87	86/87/97/108/119/125	---	---	ND	---	2.87
88	88/91	---	---	ND	---	0.956
89		---	---	ND	---	0.478
90	90/101/113	---	---	ND	---	1.43
91	88/91	---	---	ND	---	0.956
92		---	---	ND	---	0.478
93	93/98/100/102	---	---	ND	---	1.91
94		---	---	ND	---	0.478
95		---	---	ND	---	0.478
96		---	---	ND	---	0.478

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Lab Sample ID 30270719002
Filename Y181119B_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	2.87
98	93/98/100/102	---	---	ND	---	1.91
99		---	---	ND	---	0.478
100	93/98/100/102	---	---	ND	---	1.91
101	90/101/113	---	---	ND	---	1.43
102	93/98/100/102	---	---	ND	---	1.91
103		---	---	ND	---	0.478
104		---	---	ND	---	0.478
105		---	---	ND	---	0.478
106		---	---	ND	---	0.478
107	107/124	---	---	ND	---	0.956
108	86/87/97/108/119/125	---	---	ND	---	2.87
109		---	---	ND	---	0.478
110	110/115	---	---	ND	---	0.956
111		---	---	ND	---	0.478
112		---	---	ND	---	0.478
113	90/101/113	---	---	ND	---	1.43
114		---	---	ND	---	0.478
115	110/115	---	---	ND	---	0.956
116	85/116/117	---	---	ND	---	1.43
117	85/116/117	---	---	ND	---	1.43
118		---	---	ND	---	0.478
119	86/87/97/108/119/125	---	---	ND	---	2.87
120		---	---	ND	---	0.478
121		---	---	ND	---	0.478
122		---	---	ND	---	0.478
123		---	---	ND	---	0.478
124	107/124	---	---	ND	---	0.956
125	86/87/97/108/119/125	---	---	ND	---	2.87
126		---	---	ND	---	0.478
127		---	---	ND	---	0.478
128	128/166	---	---	ND	---	0.956
129	129/138/163	---	---	ND	---	1.43
130		---	---	ND	---	0.478
131		---	---	ND	---	0.478
132		---	---	ND	---	0.478
133		---	---	ND	---	0.478
134	134/143	---	---	ND	---	0.956
135	135/151	---	---	ND	---	0.956
136		---	---	ND	---	0.478
137		---	---	ND	---	0.478
138	129/138/163	---	---	ND	---	1.43
139	139/140	---	---	ND	---	0.956
140	139/140	---	---	ND	---	0.956
141		---	---	ND	---	0.478
142		---	---	ND	---	0.478
143	134/143	---	---	ND	---	0.956
144		---	---	ND	---	0.478

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 110718
Lab Sample ID 30270719002
Filename Y181119B_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.478
146		---	---	ND	---	0.478
147	147/149	---	---	ND	---	0.956
148		---	---	ND	---	0.478
149	147/149	---	---	ND	---	0.956
150		---	---	ND	---	0.478
151	135/151	---	---	ND	---	0.956
152		---	---	ND	---	0.478
153	153/168	---	---	ND	---	0.956
154		---	---	ND	---	0.478
155		---	---	ND	---	0.478
156	156/157	---	---	ND	---	0.956
157	156/157	---	---	ND	---	0.956
158		---	---	ND	---	0.478
159		---	---	ND	---	0.478
160		---	---	ND	---	0.478
161		---	---	ND	---	0.478
162		---	---	ND	---	0.478
163	129/138/163	---	---	ND	---	1.43
164		---	---	ND	---	0.478
165		---	---	ND	---	0.478
166	128/166	---	---	ND	---	0.956
167		---	---	ND	---	0.478
168	153/168	---	---	ND	---	0.956
169		---	---	ND	---	0.478
170		---	---	ND	---	0.478
171	171/173	---	---	ND	---	0.956
172		---	---	ND	---	0.478
173	171/173	---	---	ND	---	0.956
174		---	---	ND	---	0.478
175		---	---	ND	---	0.478
176		---	---	ND	---	0.478
177		---	---	ND	---	0.478
178		---	---	ND	---	0.478
179		---	---	ND	---	0.478
180	180/193	---	---	ND	---	0.956
181		---	---	ND	---	0.478
182		---	---	ND	---	0.478
183	183/185	---	---	ND	---	0.956
184		---	---	ND	---	0.478
185	183/185	---	---	ND	---	0.956
186		---	---	ND	---	0.478
187		---	---	ND	---	0.478
188		---	---	ND	---	0.478
189		---	---	ND	---	0.478
190		---	---	ND	---	0.478
191		---	---	ND	---	0.478
192		---	---	ND	---	0.478

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 110718
Lab Sample ID 30270719002
Filename Y181119B_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.956
194		---	---	ND	---	0.717
195		---	---	ND	---	0.717
196		---	---	ND	---	0.717
197	197/200	---	---	ND	---	1.43
198	198/199	---	---	ND	---	1.43
199	198/199	---	---	ND	---	1.43
200	197/200	---	---	ND	---	1.43
201		---	---	ND	---	0.717
202		---	---	ND	---	0.717
203		---	---	ND	---	0.717
204		---	---	ND	---	0.717
205		---	---	ND	---	0.717
206		---	---	ND	---	0.717
207		---	---	ND	---	0.717
208		---	---	ND	---	0.717
209		---	---	ND	---	0.717

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Influent 110718
Lab Sample ID 30270719002
Filename Y181119B_12

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	219
Total Dichloro Biphenyls	20.0
Total Trichloro Biphenyls	4.00
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	243

ND = Not Detected

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Pace AnalyticalTM

Pace Analytical Services, LLC.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID Extraction Wells 110718
Lab Sample ID 30270719003
Filename Y181119B_13

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		8.565	2.91	69.8	---	0.239
2		10.961	2.98	46.1	---	0.239
3		11.165	3.18	21.4	---	0.239
4		11.464	1.53	8.71	---	0.239
5		---	---	ND	---	0.239
6		14.205	1.38	1.00	---	0.239
7		---	---	ND	---	0.239
8		14.709	1.53	3.22	---	0.239
9		13.762	1.47	0.357	---	0.239
10		11.667	1.53	0.379	---	0.239
11		---	---	ND	---	1.43
12	12/13	---	---	ND	---	0.478
13	12/13	---	---	ND	---	0.478
14		---	---	ND	---	0.239
15		---	---	ND	---	0.239
16		18.039	1.13	0.526	---	0.239
17		17.572	1.17	0.379	---	0.239
18	18/30	17.117	1.01	1.26	---	0.478
19		15.020	1.09	0.446	---	0.239
20	20/28	---	---	ND	---	0.478
21	21/33	---	---	ND	---	0.478
22		---	---	ND	---	0.239
23		---	---	ND	---	0.239
24		---	---	ND	---	0.239
25		---	---	ND	---	0.239
26	26/29	---	---	ND	---	0.478
27		---	---	ND	---	0.239
28	20/28	---	---	ND	---	0.478
29	26/29	---	---	ND	---	0.478
30	18/30	17.117	1.01	(1.26)	---	0.478
31		---	---	ND	---	0.239
32		---	---	ND	---	0.239
33	21/33	---	---	ND	---	0.478
34		---	---	ND	---	0.239
35		---	---	ND	---	0.239
36		---	---	ND	---	0.239
37		---	---	ND	---	0.239
38		---	---	ND	---	0.239
39		---	---	ND	---	0.239
40	40/41/71	---	---	ND	---	1.43
41	40/41/71	---	---	ND	---	1.43
42		---	---	ND	---	0.478
43	43/73	---	---	ND	---	0.478
44	44/47/65	---	---	ND	---	1.43
45	45/51	---	---	ND	---	0.955
46		---	---	ND	---	0.478
47	44/47/65	---	---	ND	---	1.43
48		---	---	ND	---	0.478

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
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A = Limit of Detection based on signal to noise
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 110718
Lab Sample ID 30270719003
Filename Y181119B_13

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.955
50	50/53	---	---	ND	---	0.955
51	45/51	---	---	ND	---	0.955
52		---	---	ND	---	0.478
53	50/53	---	---	ND	---	0.955
54		---	---	ND	---	0.478
55		---	---	ND	---	0.478
56		---	---	ND	---	0.478
57		---	---	ND	---	0.478
58		---	---	ND	---	0.478
59	59/62/75	---	---	ND	---	1.43
60		---	---	ND	---	0.478
61	61/70/74/76	---	---	ND	---	1.91
62	59/62/75	---	---	ND	---	1.43
63		---	---	ND	---	0.478
64		---	---	ND	---	0.478
65	44/47/65	---	---	ND	---	1.43
66		---	---	ND	---	0.478
67		---	---	ND	---	0.478
68		---	---	ND	---	0.478
69	49/69	---	---	ND	---	0.955
70	61/70/74/76	---	---	ND	---	1.91
71	40/41/71	---	---	ND	---	1.43
72		---	---	ND	---	0.478
73	43/73	---	---	ND	---	0.478
74	61/70/74/76	---	---	ND	---	1.91
75	59/62/75	---	---	ND	---	1.43
76	61/70/74/76	---	---	ND	---	1.91
77		---	---	ND	---	0.478
78		---	---	ND	---	0.478
79		---	---	ND	---	0.478
80		---	---	ND	---	0.478
81		---	---	ND	---	0.478
82		---	---	ND	---	0.478
83		---	---	ND	---	0.478
84		---	---	ND	---	0.478
85	85/116/117	---	---	ND	---	1.43
86	86/87/97/108/119/125	---	---	ND	---	2.87
87	86/87/97/108/119/125	---	---	ND	---	2.87
88	88/91	---	---	ND	---	0.955
89		---	---	ND	---	0.478
90	90/101/113	---	---	ND	---	1.43
91	88/91	---	---	ND	---	0.955
92		---	---	ND	---	0.478
93	93/98/100/102	---	---	ND	---	1.91
94		---	---	ND	---	0.478
95		---	---	ND	---	0.478
96		---	---	ND	---	0.478

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Pace AnalyticalTM

Pace Analytical Services, LLC.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 110718
Lab Sample ID 30270719003
Filename Y181119B_13

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	2.87
98	93/98/100/102	---	---	ND	---	1.91
99		---	---	ND	---	0.478
100	93/98/100/102	---	---	ND	---	1.91
101	90/101/113	---	---	ND	---	1.43
102	93/98/100/102	---	---	ND	---	1.91
103		---	---	ND	---	0.478
104		---	---	ND	---	0.478
105		---	---	ND	---	0.478
106		---	---	ND	---	0.478
107	107/124	---	---	ND	---	0.955
108	86/87/97/108/119/125	---	---	ND	---	2.87
109		---	---	ND	---	0.478
110	110/115	---	---	ND	---	0.955
111		---	---	ND	---	0.478
112		---	---	ND	---	0.478
113	90/101/113	---	---	ND	---	1.43
114		---	---	ND	---	0.478
115	110/115	---	---	ND	---	0.955
116	85/116/117	---	---	ND	---	1.43
117	85/116/117	---	---	ND	---	1.43
118		---	---	ND	---	0.478
119	86/87/97/108/119/125	---	---	ND	---	2.87
120		---	---	ND	---	0.478
121		---	---	ND	---	0.478
122		---	---	ND	---	0.478
123		---	---	ND	---	0.478
124	107/124	---	---	ND	---	0.955
125	86/87/97/108/119/125	---	---	ND	---	2.87
126		---	---	ND	---	0.478
127		---	---	ND	---	0.478
128	128/166	---	---	ND	---	0.955
129	129/138/163	---	---	ND	---	1.43
130		---	---	ND	---	0.478
131		---	---	ND	---	0.478
132		---	---	ND	---	0.478
133		---	---	ND	---	0.478
134	134/143	---	---	ND	---	0.955
135	135/151	---	---	ND	---	0.955
136		---	---	ND	---	0.478
137		---	---	ND	---	0.478
138	129/138/163	---	---	ND	---	1.43
139	139/140	---	---	ND	---	0.955
140	139/140	---	---	ND	---	0.955
141		---	---	ND	---	0.478
142		---	---	ND	---	0.478
143	134/143	---	---	ND	---	0.955
144		---	---	ND	---	0.478

Conc = Concentration
EML = Method Specified Reporting Limit (1668A)
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Pace AnalyticalTM

Pace Analytical Services, LLC.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 110718
Lab Sample ID 30270719003
Filename Y181119B_13

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.478
146		---	---	ND	---	0.478
147	147/149	---	---	ND	---	0.955
148		---	---	ND	---	0.478
149	147/149	---	---	ND	---	0.955
150		---	---	ND	---	0.478
151	135/151	---	---	ND	---	0.955
152		---	---	ND	---	0.478
153	153/168	---	---	ND	---	0.955
154		---	---	ND	---	0.478
155		---	---	ND	---	0.478
156	156/157	---	---	ND	---	0.955
157	156/157	---	---	ND	---	0.955
158		---	---	ND	---	0.478
159		---	---	ND	---	0.478
160		---	---	ND	---	0.478
161		---	---	ND	---	0.478
162		---	---	ND	---	0.478
163	129/138/163	---	---	ND	---	1.43
164		---	---	ND	---	0.478
165		---	---	ND	---	0.478
166	128/166	---	---	ND	---	0.955
167		---	---	ND	---	0.478
168	153/168	---	---	ND	---	0.955
169		---	---	ND	---	0.478
170		---	---	ND	---	0.478
171	171/173	---	---	ND	---	0.955
172		---	---	ND	---	0.478
173	171/173	---	---	ND	---	0.955
174		---	---	ND	---	0.478
175		---	---	ND	---	0.478
176		---	---	ND	---	0.478
177		---	---	ND	---	0.478
178		---	---	ND	---	0.478
179		---	---	ND	---	0.478
180	180/193	---	---	ND	---	0.955
181		---	---	ND	---	0.478
182		---	---	ND	---	0.478
183	183/185	---	---	ND	---	0.955
184		---	---	ND	---	0.478
185	183/185	---	---	ND	---	0.955
186		---	---	ND	---	0.478
187		---	---	ND	---	0.478
188		---	---	ND	---	0.478
189		---	---	ND	---	0.478
190		---	---	ND	---	0.478
191		---	---	ND	---	0.478
192		---	---	ND	---	0.478

Conc = Concentration
EML =Method Specified Reporting Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID Extraction Wells 110718
Lab Sample ID 30270719003
Filename Y181119B_13

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.955
194		---	---	ND	---	0.717
195		---	---	ND	---	0.717
196		---	---	ND	---	0.717
197	197/200	---	---	ND	---	1.43
198	198/199	---	---	ND	---	1.43
199	198/199	---	---	ND	---	1.43
200	197/200	---	---	ND	---	1.43
201		---	---	ND	---	0.717
202		---	---	ND	---	0.717
203		---	---	ND	---	0.717
204		---	---	ND	---	0.717
205		---	---	ND	---	0.717
206		---	---	ND	---	0.717
207		---	---	ND	---	0.717
208		---	---	ND	---	0.717
209		---	---	ND	---	0.717

Conc = Concentration
EML = Method Specified Reporting Limit (1668A)
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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID Extraction Wells 110718
Lab Sample ID 30270719003
Filename Y181119B_13

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	137
Total Dichloro Biphenyls	13.7
Total Trichloro Biphenyls	2.61
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	154

ND = Not Detected

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