October 12, 2016

FAL Project: 10071

Gretchen Heavner, Ph.D.
Floyd Snider
601 Union St. Ste. 600
Seattle, WA 98101

Dear Dr. Heavner,

Enclosed are the results for Frontier Analytical Laboratory project **10071**. These results correspond to your project **AMEC-KC-ENR.** Three solvent samples were received on 8/4/2016 in good condition. All three solvent samples were extracted and analyzed following EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). The total PCB concentration is listed in the upper right hand corner of the first data page (Page 1 of 3) of each EPA Method 1668C sample. These results replace the original data package that was reported on 8/29/2016.

The following Level I report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and a sample photo. The enclosed results and Electronic Data Deliverable (EDD) are specifically for the samples referenced in this report only. These results shall not be reproduced except in full. The Level I data package and EDD have been emailed to you and, per your request, a compact disk of the Level I data package and EDD have been mailed to you as well. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is **4041**. Our State of Washington Department of Ecology certificate number is **C844.** Our State of California ELAP certificate number is **2934**.

If you have any questions regarding project **10071**, please feel free to contact me at 916-934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **10071**

Received on: **08/04/2016** Project Due: **08/26/2016** Storage: **R3**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
10071-001-SA	0	AMEC-KC-ENR	LDW-BA-SC-S010-PW-TB	EPA 1668 PCB	Solvent	07/28/2016	11:48 am	07/28/2017
10071-002-SA	0	AMEC-KC-ENR	LDW-BA-SU-S010-PW-TB	EPA 1668 PCB	Solvent	07/28/2016	11:58 am	07/28/2017
10071-003-SA	0	AMEC-KC-ENR	LDW-BA-IN-S010-PW-TB	EPA 1668 PCB	Solvent	07/28/2016	12:12 pm	07/28/2017

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EPA Method 1668
PCBs

FAL ID: 10071-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016
Total Conc: 0.00

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	4.91			PCB-51	ND	5.27		
PCB-2	ND	7.97			PCB-52	ND	4.40	C	69
PCB-3	ND	9.53			PCB-53	ND	5.29		
PCB-4	ND	4.07			PCB-54	ND	3.86		
PCB-5	ND	5.45			PCB-55	ND	4.14		
PCB-6	ND	5.65			PCB-56	ND	8.16	C	60
PCB-7	ND	5.57			PCB-57	ND	4.17		
PCB-8	ND	5.98			PCB-58	ND	4.22		
PCB-9	ND	5.54			PCB-59	-	-	C042	42
PCB-10	ND	5.88			PCB-60	-	-	C056	56
PCB-11	ND	6.52			PCB-61	ND	3.98	C	70
PCB-12	ND	5.92			PCB-62	ND	4.08		
PCB-13	ND	6.79			PCB-63	ND	4.07		
PCB-14	ND	5.81			PCB-64	-	-	C041	41/71/72
PCB-15	ND	8.32			PCB-65	ND	4.37		
PCB-16	ND	6.59			PCB-66	ND	3.90	C	76
PCB-17	ND	6.90			PCB-67	ND	4.12		
PCB-18	ND	7.49			PCB-68	ND	3.84		
PCB-19	ND	7.20			PCB-69	-	-	C052	52
PCB-20	ND	8.55	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	9.04			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.79			PCB-73	ND	3.76		
PCB-24	ND	5.22			PCB-74	ND	3.91		
PCB-25	ND	7.47			PCB-75	-	-	C048	48
PCB-26	ND	8.77			PCB-76	-	-	C066	66
PCB-27	ND	5.27			PCB-77	ND	8.96		
PCB-28	ND	7.39			PCB-78	ND	8.27		
PCB-29	ND	8.70			PCB-79	ND	7.89		
PCB-30	ND	5.11			PCB-80	ND	3.62		
PCB-31	ND	9.39			PCB-81	ND	7.02		
PCB-32	ND	5.70			PCB-82	ND	9.81		
PCB-33	-	-	C020	20/21	PCB-83	ND	6.92	C	112
PCB-34	ND	9.02			PCB-84	ND	7.80	C	92
PCB-35	ND	9.88			PCB-85	ND	6.63	C	116
PCB-36	ND	9.15			PCB-86	ND	7.48		
PCB-37	ND	8.51			PCB-87	ND	6.05	C	117/125
PCB-38	ND	8.83			PCB-88	ND	7.10	C	91
PCB-39	ND	9.12			PCB-89	ND	7.85		
PCB-40	ND	7.12			PCB-90	ND	7.04	C	101
PCB-41	ND	4.03	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	4.41	C	59	PCB-92	-	-	C084	84
PCB-43	ND	5.39	C	49	PCB-93	ND	8.53		
PCB-44	ND	5.97			PCB-94	ND	8.05		
PCB-45	ND	6.05			PCB-95	ND	7.93		
PCB-46	ND	6.16			PCB-96	ND	5.52		
PCB-47	ND	4.07			PCB-97	ND	6.54		
PCB-48	ND	4.37	C	75	PCB-98	ND	6.07	C	102
PCB-49	-	-	C043	43	PCB-99	ND	7.14		
PCB-50	ND	5.35			PCB-100	ND	6.67		

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EPA Method 1668
PCBs

FAL ID: 10071-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	7.68		
PCB-102	-	-	C098	98	PCB-152	ND	3.97		
PCB-103	ND	6.58			PCB-153	ND	6.36		
PCB-104	ND	5.07			PCB-154	ND	4.64		
PCB-105	ND	5.79			PCB-155	ND	3.53		
PCB-106	ND	5.48	C	118	PCB-156	ND	5.70		
PCB-107	ND	5.54	C	108	PCB-157	ND	5.88		
PCB-108	-	-	C107	107	PCB-158	ND	5.72	C	160
PCB-109	ND	5.76			PCB-159	ND	5.73		
PCB-110	ND	5.42			PCB-160	-	-	C158	158
PCB-111	ND	4.92	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.58			PCB-163	-	-	C138	138/164
PCB-114	ND	5.18			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	6.09		
PCB-117	-	-	C087	87/125	PCB-167	ND	5.67		
PCB-118	-	-	C106	106	PCB-168	ND	5.86		
PCB-119	ND	5.32			PCB-169	ND	8.72		
PCB-120	ND	5.15			PCB-170	ND	7.67		
PCB-121	ND	5.93			PCB-171	ND	6.52		
PCB-122	ND	5.65			PCB-172	ND	6.87		
PCB-123	ND	4.35			PCB-173	ND	7.19		
PCB-124	ND	5.32			PCB-174	ND	5.90		
PCB-125	-	-	C087	87/117	PCB-175	ND	6.04		
PCB-126	ND	9.73			PCB-176	ND	4.60		
PCB-127	ND	5.98			PCB-177	ND	6.75		
PCB-128	ND	6.97	C	162	PCB-178	ND	6.43		
PCB-129	ND	9.15			PCB-179	ND	4.35		
PCB-130	ND	8.31			PCB-180	ND	5.34		
PCB-131	ND	7.48	C	133	PCB-181	ND	6.92		
PCB-132	ND	6.82	C	161	PCB-182	ND	5.63	C	187
PCB-133	-	-	C131	131	PCB-183	ND	5.77		
PCB-134	ND	7.69	C	143	PCB-184	ND	4.22		
PCB-135	ND	7.70			PCB-185	ND	6.43		
PCB-136	ND	3.86			PCB-186	ND	4.47		
PCB-137	ND	8.28			PCB-187	-	-	C182	182
PCB-138	ND	5.67	C	163/164	PCB-188	ND	3.99		
PCB-139	ND	6.90	C	149	PCB-189	ND	5.75		
PCB-140	ND	7.19			PCB-190	ND	5.52		
PCB-141	ND	7.70			PCB-191	ND	5.01		
PCB-142	ND	8.42			PCB-192	ND	5.21		
PCB-143	-	-	C134	134	PCB-193	ND	4.86		
PCB-144	ND	7.28			PCB-194	ND	5.96		
PCB-145	ND	3.99			PCB-195	ND	6.42		
PCB-146	ND	6.24	C	165	PCB-196	ND	6.50	C	203
PCB-147	ND	6.73			PCB-197	ND	4.76		
PCB-148	ND	5.61			PCB-198	ND	6.64		
PCB-149	-	-	C139	139	PCB-199	ND	7.27		
PCB-150	ND	3.89			PCB-200	ND	5.02		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10071-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.76		
PCB-202	ND	4.68		
PCB-203	-	-	C196	196
PCB-204	ND	4.84		
PCB-205	ND	4.39		
PCB-206	ND	7.87		
PCB-207	ND	5.77		
PCB-208	ND	5.03		
PCB-209	ND	4.45		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	94.9	5.00 - 145	
13C-PCB-3	81.5	5.00 - 145	
13C-PCB-4	94.0	5.00 - 145	
13C-PCB-15	72.9	5.00 - 145	
13C-PCB-19	90.9	5.00 - 145	
13C-PCB-37	77.5	5.00 - 145	
13C-PCB-54	91.7	5.00 - 145	
13C-PCB-77	79.7	10.0 - 145	
13C-PCB-81	80.9	10.0 - 145	
13C-PCB-104	86.6	10.0 - 145	
13C-PCB-105	91.6	10.0 - 145	
13C-PCB-114	94.8	10.0 - 145	
13C-PCB-118	101	10.0 - 145	
13C-PCB-123	91.3	10.0 - 145	
13C-PCB-126	83.2	10.0 - 145	
13C-PCB-155	92.3	10.0 - 145	
13C-PCB-156	85.5	10.0 - 145	
13C-PCB-157	92.7	10.0 - 145	
13C-PCB-167	88.9	10.0 - 145	
13C-PCB-169	78.7	10.0 - 145	
13C-PCB-188	90.3	10.0 - 145	
13C-PCB-189	82.3	10.0 - 145	
13C-PCB-202	87.1	10.0 - 145	
13C-PCB-205	93.4	10.0 - 145	
13C-PCB-206	90.6	10.0 - 145	
13C-PCB-208	94.9	10.0 - 145	
13C-PCB-209	86.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	96.0	5.00 - 145	
13C-PCB-111	88.7	10.0 - 145	
13C-PCB-178	93.9	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____

Date: 10/12/2016

Reviewed By: _____

Date: 10/12/2016

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EPA Method 1668
PCBs

FAL ID: 10071-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: ng/ml

Acquired: 08-15-2016

Compound	% Recovery	QC Limits	Qual
PCB-1	106	60.0 - 135	
PCB-3	100	60.0 - 135	
PCB-4	101	60.0 - 135	
PCB-15	96.8	60.0 - 135	
PCB-19	108	60.0 - 135	
PCB-37	98.8	60.0 - 135	
PCB-54	108	60.0 - 135	
PCB-77	105	60.0 - 135	
PCB-81	104	60.0 - 135	
PCB-104	107	60.0 - 135	
PCB-105	96.8	60.0 - 135	
PCB-114	95.2	60.0 - 135	
PCB-118	115	60.0 - 135	
PCB-123	87.6	60.0 - 135	
PCB-126	95.2	60.0 - 135	
PCB-155	107	60.0 - 135	
PCB-156	101	60.0 - 135	
PCB-157	104	60.0 - 135	
PCB-167	111	60.0 - 135	
PCB-169	108	60.0 - 135	
PCB-188	104	60.0 - 135	
PCB-189	103	60.0 - 135	
PCB-202	112	60.0 - 135	
PCB-205	103	60.0 - 135	
PCB-206	104	60.0 - 135	
PCB-208	104	60.0 - 135	
PCB-209	105	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	88.3	15.0 - 145	
13C-PCB-3	84.2	15.0 - 145	
13C-PCB-4	92.1	15.0 - 145	
13C-PCB-15	80.6	15.0 - 145	
13C-PCB-19	84.1	15.0 - 145	
13C-PCB-37	85.6	15.0 - 145	
13C-PCB-54	89.6	15.0 - 145	
13C-PCB-77	81.9	40.0 - 145	
13C-PCB-81	82.2	40.0 - 145	
13C-PCB-104	84.8	40.0 - 145	
13C-PCB-105	83.7	40.0 - 145	
13C-PCB-114	87.9	40.0 - 145	
13C-PCB-118	92.9	40.0 - 145	
13C-PCB-123	87.2	40.0 - 145	
13C-PCB-126	83.1	40.0 - 145	
13C-PCB-155	87.1	40.0 - 145	
13C-PCB-156	82.2	40.0 - 145	
13C-PCB-157	86.1	40.0 - 145	
13C-PCB-167	82.5	40.0 - 145	
13C-PCB-169	78.1	40.0 - 145	
13C-PCB-188	86.4	40.0 - 145	
13C-PCB-189	81.1	40.0 - 145	
13C-PCB-202	82.8	40.0 - 145	
13C-PCB-205	87.4	40.0 - 145	
13C-PCB-206	84.8	40.0 - 145	
13C-PCB-208	85.7	40.0 - 145	
13C-PCB-209	79.3	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	101	15.0 - 145	
13C-PCB-111	87.9	40.0 - 145	
13C-PCB-178	91.0	40.0 - 145	

Analyst: _____

Date: 10/12/2016

Reviewed By: _____

Date: 10/12/2016

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10071-001-SA
Client ID: LDW-BA-SC-S010-PW-TB
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: 08-04-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016
Total Conc: 31700

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	5.16			PCB-51	ND	5.80		
PCB-2	ND	8.15			PCB-52	ND	4.85	C	69
PCB-3	ND	9.54			PCB-53	ND	5.83		
PCB-4	ND	4.62			PCB-54	ND	4.26		
PCB-5	ND	6.12			PCB-55	34.8	-		
PCB-6	ND	6.34			PCB-56	ND	7.75	C	60
PCB-7	ND	6.26			PCB-57	ND	4.59		
PCB-8	ND	6.12			PCB-58	ND	4.64		
PCB-9	ND	6.22			PCB-59	-	-	C042	42
PCB-10	ND	6.61			PCB-60	-	-	C056	56
PCB-11	ND	7.32			PCB-61	ND	4.38	C	70
PCB-12	ND	6.65			PCB-62	ND	4.49		
PCB-13	ND	7.62			PCB-63	ND	4.49		
PCB-14	338	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	9.26			PCB-65	ND	4.81		
PCB-16	ND	5.55			PCB-66	ND	4.29	C	76
PCB-17	ND	5.81			PCB-67	ND	4.54		
PCB-18	ND	6.31			PCB-68	ND	4.23		
PCB-19	ND	6.06			PCB-69	-	-	C052	52
PCB-20	ND	7.09	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	7.49			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.29			PCB-73	9.61	-	J	
PCB-24	ND	4.40			PCB-74	ND	4.30		
PCB-25	ND	6.19			PCB-75	-	-	C048	48
PCB-26	ND	7.27			PCB-76	-	-	C066	66
PCB-27	ND	4.44			PCB-77	ND	8.29		
PCB-28	ND	6.12			PCB-78	2880	-		
PCB-29	ND	7.21			PCB-79	ND	7.50		
PCB-30	ND	4.31			PCB-80	ND	3.99		
PCB-31	ND	7.78			PCB-81	ND	6.87		
PCB-32	ND	4.80			PCB-82	ND	9.59		
PCB-33	-	-	C020	20/21	PCB-83	ND	6.77	C	112
PCB-34	ND	7.47			PCB-84	ND	7.62	C	92
PCB-35	ND	8.19			PCB-85	ND	6.48	C	116
PCB-36	1910	-			PCB-86	ND	7.31		
PCB-37	ND	7.05			PCB-87	ND	5.92	C	117/125
PCB-38	ND	7.32			PCB-88	ND	7.40	C	91
PCB-39	ND	7.56			PCB-89	ND	7.67		
PCB-40	ND	7.84			PCB-90	ND	6.88	C	101
PCB-41	ND	4.44	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	4.85	C	59	PCB-92	-	-	C084	84
PCB-43	ND	5.94	C	49	PCB-93	ND	8.89		
PCB-44	ND	6.58			PCB-94	ND	8.39		
PCB-45	ND	6.66			PCB-95	ND	8.26		
PCB-46	ND	6.78			PCB-96	ND	5.75		
PCB-47	ND	4.48			PCB-97	ND	6.39		
PCB-48	ND	4.81	C	75	PCB-98	ND	6.32	C	102
PCB-49	-	-	C043	43	PCB-99	ND	6.98		
PCB-50	ND	5.89			PCB-100	ND	6.95		

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EPA Method 1668
PCBs

FAL ID: 10071-001-SA
Client ID: LDW-BA-SC-S010-PW-TB
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: 08-04-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	4.87		
PCB-102	-	-	C098	98	PCB-152	ND	3.15		
PCB-103	ND	6.86			PCB-153	71.7	-		
PCB-104	2310	-			PCB-154	ND	3.68		
PCB-105	ND	4.91			PCB-155	3420	-		
PCB-106	ND	5.14	C	118	PCB-156	ND	3.58		
PCB-107	ND	4.90	C	108	PCB-157	ND	4.01		
PCB-108	-	-	C107	107	PCB-158	ND	3.62	C	160
PCB-109	ND	5.63			PCB-159	ND	3.63		
PCB-110	ND	5.29			PCB-160	-	-	C158	158
PCB-111	ND	4.81	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.45			PCB-163	-	-	C138	138/164
PCB-114	ND	4.26			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.86		
PCB-117	-	-	C087	87/125	PCB-167	ND	3.91		
PCB-118	-	-	C106	106	PCB-168	ND	3.71		
PCB-119	ND	5.20			PCB-169	ND	4.70		
PCB-120	ND	5.03			PCB-170	ND	5.48		
PCB-121	3340	-			PCB-171	ND	4.67		
PCB-122	ND	5.00			PCB-172	116	-		
PCB-123	ND	4.09			PCB-173	ND	5.14		
PCB-124	ND	4.70			PCB-174	ND	4.22		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.32		
PCB-126	ND	7.42			PCB-176	ND	3.29		
PCB-127	ND	5.29			PCB-177	ND	4.83		
PCB-128	ND	4.42	C	162	PCB-178	ND	4.60		
PCB-129	ND	5.80			PCB-179	ND	3.11		
PCB-130	ND	5.26			PCB-180	ND	3.82		
PCB-131	ND	4.74	C	133	PCB-181	ND	4.95		
PCB-132	ND	4.32	C	161	PCB-182	ND	4.03	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.13		
PCB-134	ND	4.87	C	143	PCB-184	4560	-		
PCB-135	ND	4.88			PCB-185	ND	4.60		
PCB-136	ND	3.06			PCB-186	ND	3.20		
PCB-137	ND	5.24			PCB-187	-	-	C182	182
PCB-138	ND	3.59	C	163/164	PCB-188	ND	3.20		
PCB-139	ND	4.37	C	149	PCB-189	ND	3.58		
PCB-140	ND	4.55			PCB-190	ND	3.95		
PCB-141	ND	4.88			PCB-191	ND	3.58		
PCB-142	3370	-			PCB-192	3210	-		
PCB-143	-	-	C134	134	PCB-193	ND	3.48		
PCB-144	ND	4.61			PCB-194	ND	3.58		
PCB-145	ND	3.17			PCB-195	ND	3.85		
PCB-146	ND	3.95	C	165	PCB-196	ND	4.67	C	203
PCB-147	ND	4.27			PCB-197	48.1	-		
PCB-148	ND	4.45			PCB-198	ND	4.77		
PCB-149	-	-	C139	139	PCB-199	ND	5.23		
PCB-150	ND	3.09			PCB-200	ND	3.61		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10071-001-SA
Client ID: LDW-BA-SC-S010-PW-TB
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: 08-04-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.42		
PCB-202	ND	3.37		
PCB-203	-	-	C196	196
PCB-204	6070	-		
PCB-205	ND	2.63		
PCB-206	ND	4.71		
PCB-207	26.5	-		
PCB-208	ND	3.07		
PCB-209	24.3	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.8	5.00 - 145	
13C-PCB-3	79.0	5.00 - 145	
13C-PCB-4	90.1	5.00 - 145	
13C-PCB-15	70.8	5.00 - 145	
13C-PCB-19	82.8	5.00 - 145	
13C-PCB-37	83.7	5.00 - 145	
13C-PCB-54	89.4	5.00 - 145	
13C-PCB-77	87.8	10.0 - 145	
13C-PCB-81	89.3	10.0 - 145	
13C-PCB-104	81.6	10.0 - 145	
13C-PCB-105	91.4	10.0 - 145	
13C-PCB-114	97.1	10.0 - 145	
13C-PCB-118	97.8	10.0 - 145	
13C-PCB-123	91.8	10.0 - 145	
13C-PCB-126	88.6	10.0 - 145	
13C-PCB-155	83.6	10.0 - 145	
13C-PCB-156	85.8	10.0 - 145	
13C-PCB-157	87.8	10.0 - 145	
13C-PCB-167	85.3	10.0 - 145	
13C-PCB-169	84.6	10.0 - 145	
13C-PCB-188	79.7	10.0 - 145	
13C-PCB-189	83.2	10.0 - 145	
13C-PCB-202	75.8	10.0 - 145	
13C-PCB-205	88.0	10.0 - 145	
13C-PCB-206	77.5	10.0 - 145	
13C-PCB-208	78.7	10.0 - 145	
13C-PCB-209	71.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	104	5.00 - 145	
13C-PCB-111	89.2	10.0 - 145	
13C-PCB-178	84.2	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____

Date: 10/12/2016

Reviewed By: _____

Date: 10/12/2016

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EPA Method 1668
PCBs

FAL ID: 10071-002-SA
Client ID: LDW-BA-SU-S010-PW-TB
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: 08-04-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016
Total Conc: 30300

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	4.45			PCB-51	ND	5.04		
PCB-2	ND	6.65			PCB-52	ND	4.22	C	69
PCB-3	ND	7.45			PCB-53	ND	5.07		
PCB-4	ND	5.30			PCB-54	ND	3.70		
PCB-5	ND	6.43			PCB-55	35.5	-		
PCB-6	ND	6.66			PCB-56	ND	8.94	C	60
PCB-7	ND	6.57			PCB-57	ND	3.99		
PCB-8	ND	6.43			PCB-58	ND	4.04		
PCB-9	ND	6.53			PCB-59	-	-	C042	42
PCB-10	ND	6.94			PCB-60	-	-	C056	56
PCB-11	ND	7.69			PCB-61	ND	3.81	C	70
PCB-12	ND	6.98			PCB-62	ND	3.91		
PCB-13	ND	8.01			PCB-63	ND	3.90		
PCB-14	210	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	9.30			PCB-65	ND	4.18		
PCB-16	ND	4.11			PCB-66	ND	3.73	C	76
PCB-17	ND	4.30			PCB-67	ND	3.94		
PCB-18	ND	4.67			PCB-68	ND	3.67		
PCB-19	ND	4.49			PCB-69	-	-	C052	52
PCB-20	ND	8.18	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	8.64			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.41			PCB-73	10.5	-	J	
PCB-24	ND	3.25			PCB-74	ND	3.74		
PCB-25	ND	7.14			PCB-75	-	-	C048	48
PCB-26	ND	8.39			PCB-76	-	-	C066	66
PCB-27	ND	3.29			PCB-77	ND	9.60		
PCB-28	ND	7.06			PCB-78	2810	-		
PCB-29	ND	8.32			PCB-79	ND	8.65		
PCB-30	ND	3.19			PCB-80	ND	3.47		
PCB-31	ND	8.98			PCB-81	ND	7.89		
PCB-32	ND	3.55			PCB-82	ND	8.27		
PCB-33	-	-	C020	20/21	PCB-83	ND	5.83	C	112
PCB-34	ND	8.62			PCB-84	ND	6.57	C	92
PCB-35	ND	9.45			PCB-85	ND	5.59	C	116
PCB-36	1710	-			PCB-86	ND	6.30		
PCB-37	ND	8.14			PCB-87	ND	5.10	C	117/125
PCB-38	ND	8.44			PCB-88	ND	6.24	C	91
PCB-39	ND	8.72			PCB-89	ND	6.62		
PCB-40	ND	6.81			PCB-90	ND	5.93	C	101
PCB-41	ND	3.86	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	4.22	C	59	PCB-92	-	-	C084	84
PCB-43	ND	5.16	C	49	PCB-93	ND	7.49		
PCB-44	ND	5.72			PCB-94	ND	7.07		
PCB-45	ND	5.79			PCB-95	ND	6.96		
PCB-46	ND	5.89			PCB-96	ND	4.85		
PCB-47	ND	3.89			PCB-97	ND	5.51		
PCB-48	ND	4.18	C	75	PCB-98	ND	5.33	C	102
PCB-49	-	-	C043	43	PCB-99	ND	6.02		
PCB-50	ND	5.12			PCB-100	ND	5.86		

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EPA Method 1668
PCBs

FAL ID: 10071-002-SA
Client ID: LDW-BA-SU-S010-PW-TB
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: 08-04-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	3.55		
PCB-102	-	-	C098	98	PCB-152	ND	4.08		
PCB-103	ND	5.78			PCB-153	69.8	-		
PCB-104	2380	-			PCB-154	ND	4.77		
PCB-105	ND	4.20			PCB-155	3710	-		
PCB-106	ND	3.72	C	118	PCB-156	ND	2.64		
PCB-107	ND	3.84	C	108	PCB-157	ND	2.88		
PCB-108	-	-	C107	107	PCB-158	ND	2.64	C	160
PCB-109	ND	4.86			PCB-159	ND	2.65		
PCB-110	ND	4.57			PCB-160	-	-	C158	158
PCB-111	ND	4.14	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.70			PCB-163	-	-	C138	138/164
PCB-114	ND	3.42			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.82		
PCB-117	-	-	C087	87/125	PCB-167	ND	2.95		
PCB-118	-	-	C106	106	PCB-168	ND	2.71		
PCB-119	ND	4.48			PCB-169	ND	3.35		
PCB-120	ND	4.34			PCB-170	ND	6.12		
PCB-121	3320	-			PCB-171	ND	5.20		
PCB-122	ND	3.91			PCB-172	97.7	-		
PCB-123	ND	3.06			PCB-173	ND	5.74		
PCB-124	ND	3.68			PCB-174	ND	4.71		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.82		
PCB-126	ND	5.46			PCB-176	ND	3.67		
PCB-127	ND	4.14			PCB-177	ND	5.39		
PCB-128	ND	3.23	C	162	PCB-178	ND	5.13		
PCB-129	ND	4.23			PCB-179	ND	3.47		
PCB-130	ND	3.84			PCB-180	ND	4.26		
PCB-131	ND	3.46	C	133	PCB-181	ND	5.52		
PCB-132	ND	3.16	C	161	PCB-182	ND	4.49	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.61		
PCB-134	ND	3.56	C	143	PCB-184	4460	-		
PCB-135	ND	3.56			PCB-185	ND	5.13		
PCB-136	ND	3.96			PCB-186	ND	3.57		
PCB-137	ND	3.83			PCB-187	-	-	C182	182
PCB-138	ND	2.62	C	163/164	PCB-188	ND	3.64		
PCB-139	ND	3.19	C	149	PCB-189	ND	3.90		
PCB-140	ND	3.32			PCB-190	ND	4.41		
PCB-141	ND	3.56			PCB-191	ND	4.00		
PCB-142	3420	-			PCB-192	2920	-		
PCB-143	-	-	C134	134	PCB-193	ND	3.88		
PCB-144	ND	3.37			PCB-194	ND	3.85		
PCB-145	ND	4.10			PCB-195	ND	4.14		
PCB-146	ND	2.89	C	165	PCB-196	ND	4.29	C	203
PCB-147	ND	3.12			PCB-197	42.7	-		
PCB-148	ND	5.77			PCB-198	ND	4.39		
PCB-149	-	-	C139	139	PCB-199	ND	4.80		
PCB-150	ND	4.00			PCB-200	ND	3.32		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10071-002-SA
Client ID: LDW-BA-SU-S010-PW-TB
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: 08-04-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.14		
PCB-202	ND	3.09		
PCB-203	-	-	C196	196
PCB-204	5100	-		
PCB-205	ND	2.83		
PCB-206	ND	3.68		
PCB-207	23.0	-		
PCB-208	ND	2.58		
PCB-209	18.7	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.1	5.00 - 145	
13C-PCB-3	80.5	5.00 - 145	
13C-PCB-4	93.4	5.00 - 145	
13C-PCB-15	75.1	5.00 - 145	
13C-PCB-19	83.0	5.00 - 145	
13C-PCB-37	89.9	5.00 - 145	
13C-PCB-54	92.8	5.00 - 145	
13C-PCB-77	95.8	10.0 - 145	
13C-PCB-81	94.9	10.0 - 145	
13C-PCB-104	81.4	10.0 - 145	
13C-PCB-105	95.3	10.0 - 145	
13C-PCB-114	101	10.0 - 145	
13C-PCB-118	103	10.0 - 145	
13C-PCB-123	95.3	10.0 - 145	
13C-PCB-126	94.4	10.0 - 145	
13C-PCB-155	85.3	10.0 - 145	
13C-PCB-156	86.2	10.0 - 145	
13C-PCB-157	90.2	10.0 - 145	
13C-PCB-167	87.0	10.0 - 145	
13C-PCB-169	87.4	10.0 - 145	
13C-PCB-188	80.6	10.0 - 145	
13C-PCB-189	81.8	10.0 - 145	
13C-PCB-202	77.6	10.0 - 145	
13C-PCB-205	89.9	10.0 - 145	
13C-PCB-206	78.9	10.0 - 145	
13C-PCB-208	81.4	10.0 - 145	
13C-PCB-209	70.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	99.3	5.00 - 145	
13C-PCB-111	85.1	10.0 - 145	
13C-PCB-178	78.7	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____

Date: 10/12/2016

Reviewed By: _____

Date: 10/12/2016

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EPA Method 1668
PCBs

FAL ID: 10071-003-SA
Client ID: LDW-BA-IN-S010-PW-TB
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: 08-04-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016
Total Conc: 31200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	5.82			PCB-51	ND	4.69		
PCB-2	ND	8.73			PCB-52	ND	3.92	C	69
PCB-3	ND	9.87			PCB-53	ND	4.71		
PCB-4	ND	5.20			PCB-54	ND	3.44		
PCB-5	ND	6.51			PCB-55	36.8	-		
PCB-6	ND	6.75			PCB-56	ND	7.01	C	60
PCB-7	ND	6.66			PCB-57	ND	3.71		
PCB-8	ND	6.51			PCB-58	ND	3.76		
PCB-9	ND	6.62			PCB-59	-	-	C042	42
PCB-10	ND	7.03			PCB-60	-	-	C056	56
PCB-11	ND	7.79			PCB-61	ND	3.54	C	70
PCB-12	ND	7.08			PCB-62	ND	3.64		
PCB-13	ND	8.11			PCB-63	ND	3.63		
PCB-14	168	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	9.44			PCB-65	ND	3.89		
PCB-16	ND	4.40			PCB-66	ND	3.47	C	76
PCB-17	ND	4.61			PCB-67	ND	3.67		
PCB-18	ND	5.01			PCB-68	ND	3.42		
PCB-19	ND	4.81			PCB-69	-	-	C052	52
PCB-20	ND	7.06	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	7.46			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.26			PCB-73	8.46	-	J	
PCB-24	ND	3.49			PCB-74	ND	3.48		
PCB-25	ND	6.17			PCB-75	-	-	C048	48
PCB-26	ND	7.25			PCB-76	-	-	C066	66
PCB-27	ND	3.52			PCB-77	ND	7.62		
PCB-28	ND	6.10			PCB-78	2530	-		
PCB-29	ND	7.19			PCB-79	ND	6.78		
PCB-30	ND	3.42			PCB-80	ND	3.23		
PCB-31	ND	7.76			PCB-81	ND	6.09		
PCB-32	ND	3.81			PCB-82	ND	9.66		
PCB-33	-	-	C020	20/21	PCB-83	ND	6.82	C	112
PCB-34	ND	7.45			PCB-84	ND	7.68	C	92
PCB-35	ND	8.16			PCB-85	ND	6.53	C	116
PCB-36	1540	-			PCB-86	ND	7.37		
PCB-37	ND	7.03			PCB-87	ND	5.96	C	117/125
PCB-38	ND	7.29			PCB-88	ND	5.75	C	91
PCB-39	ND	7.54			PCB-89	ND	7.74		
PCB-40	ND	6.34			PCB-90	ND	6.93	C	101
PCB-41	ND	3.59	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	3.93	C	59	PCB-92	-	-	C084	84
PCB-43	ND	4.80	C	49	PCB-93	ND	6.90		
PCB-44	ND	5.32			PCB-94	ND	6.52		
PCB-45	ND	5.39			PCB-95	ND	6.42		
PCB-46	ND	5.48			PCB-96	ND	4.47		
PCB-47	ND	3.62			PCB-97	ND	6.44		
PCB-48	ND	3.89	C	75	PCB-98	ND	4.91	C	102
PCB-49	-	-	C043	43	PCB-99	ND	7.03		
PCB-50	ND	4.77			PCB-100	ND	5.40		

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EPA Method 1668
PCBs

FAL ID: 10071-003-SA
Client ID: LDW-BA-IN-S010-PW-TB
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: 08-04-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	4.52		
PCB-102	-	-	C098	98	PCB-152	ND	3.72		
PCB-103	ND	5.33			PCB-153	69.4	-		
PCB-104	2170	-			PCB-154	ND	4.34		
PCB-105	ND	4.35			PCB-155	3660	-		
PCB-106	ND	4.95	C	118	PCB-156	ND	3.54		
PCB-107	ND	4.56	C	108	PCB-157	ND	3.66		
PCB-108	-	-	C107	107	PCB-158	ND	3.36	C	160
PCB-109	ND	5.68			PCB-159	ND	3.37		
PCB-110	ND	5.34			PCB-160	-	-	C158	158
PCB-111	ND	4.84	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.49			PCB-163	-	-	C138	138/164
PCB-114	ND	4.05			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.58		
PCB-117	-	-	C087	87/125	PCB-167	ND	3.72		
PCB-118	-	-	C106	106	PCB-168	ND	3.45		
PCB-119	ND	5.24			PCB-169	ND	4.09		
PCB-120	ND	5.07			PCB-170	ND	6.07		
PCB-121	3160	-			PCB-171	ND	5.17		
PCB-122	ND	4.65			PCB-172	115	-		
PCB-123	ND	3.77			PCB-173	ND	5.70		
PCB-124	ND	4.37			PCB-174	ND	4.68		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.79		
PCB-126	ND	6.71			PCB-176	ND	3.64		
PCB-127	ND	4.92			PCB-177	ND	5.35		
PCB-128	ND	4.10	C	162	PCB-178	ND	5.10		
PCB-129	ND	5.38			PCB-179	ND	3.45		
PCB-130	ND	4.89			PCB-180	ND	4.23		
PCB-131	ND	4.40	C	133	PCB-181	ND	5.48		
PCB-132	ND	4.02	C	161	PCB-182	ND	4.46	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.57		
PCB-134	ND	4.53	C	143	PCB-184	4770	-		
PCB-135	ND	4.53			PCB-185	ND	5.09		
PCB-136	ND	3.61			PCB-186	ND	3.54		
PCB-137	ND	4.87			PCB-187	-	-	C182	182
PCB-138	ND	3.34	C	163/164	PCB-188	ND	3.63		
PCB-139	ND	4.06	C	149	PCB-189	ND	3.86		
PCB-140	ND	4.23			PCB-190	ND	4.38		
PCB-141	ND	4.53			PCB-191	ND	3.97		
PCB-142	3370	-			PCB-192	3250	-		
PCB-143	-	-	C134	134	PCB-193	ND	3.85		
PCB-144	ND	4.28			PCB-194	ND	4.18		
PCB-145	ND	3.74			PCB-195	ND	4.50		
PCB-146	ND	3.67	C	165	PCB-196	ND	4.27	C	203
PCB-147	ND	3.96			PCB-197	51.2	-		
PCB-148	ND	5.25			PCB-198	ND	4.37		
PCB-149	-	-	C139	139	PCB-199	ND	4.78		
PCB-150	ND	3.65			PCB-200	ND	3.30		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10071-003-SA
Client ID: LDW-BA-IN-S010-PW-TB
Matrix: Solvent
Batch No: X3810

Date Extracted: 08-12-2016
Date Received: 08-04-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-8-15-16
GC Column: DB1
Units: pg/sample

Acquired: 08-15-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.13		
PCB-202	ND	3.08		
PCB-203	-	-	C196	196
PCB-204	6280	-		
PCB-205	ND	3.08		
PCB-206	ND	4.01		
PCB-207	28.2	-		
PCB-208	ND	2.77		
PCB-209	26.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	90.6	5.00 - 145	
13C-PCB-3	79.5	5.00 - 145	
13C-PCB-4	92.9	5.00 - 145	
13C-PCB-15	79.9	5.00 - 145	
13C-PCB-19	84.8	5.00 - 145	
13C-PCB-37	87.2	5.00 - 145	
13C-PCB-54	97.1	5.00 - 145	
13C-PCB-77	96.7	10.0 - 145	
13C-PCB-81	96.6	10.0 - 145	
13C-PCB-104	84.1	10.0 - 145	
13C-PCB-105	102	10.0 - 145	
13C-PCB-114	106	10.0 - 145	
13C-PCB-118	107	10.0 - 145	
13C-PCB-123	101	10.0 - 145	
13C-PCB-126	94.8	10.0 - 145	
13C-PCB-155	88.0	10.0 - 145	
13C-PCB-156	89.9	10.0 - 145	
13C-PCB-157	95.0	10.0 - 145	
13C-PCB-167	90.3	10.0 - 145	
13C-PCB-169	89.1	10.0 - 145	
13C-PCB-188	83.9	10.0 - 145	
13C-PCB-189	87.0	10.0 - 145	
13C-PCB-202	80.5	10.0 - 145	
13C-PCB-205	93.4	10.0 - 145	
13C-PCB-206	83.2	10.0 - 145	
13C-PCB-208	80.1	10.0 - 145	
13C-PCB-209	72.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	103	5.00 - 145	
13C-PCB-111	86.1	10.0 - 145	
13C-PCB-178	81.0	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____

Date: 10/12/2016

Reviewed By: _____

Date: 10/12/2016

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY

Laboratory Project No.: 10071

Temperature: 0 °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen **Page** 1 **of** 1

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Floyd Snider	Company Name: Amec Foster Wheeler	FAL Quote #:
Contact Name: Gretchen Heavner	Contact Name: Cliff Whitmus	P.O. #:
Address: 601 Union St. Ste. 600, Seattle, WA 98101	Address: 3500 188th St. SW, Ste. 601, Lynwood, WA 98037	Project #:
Phone: 206-292-2078 Fax:	Phone: 425-921-4023 Fax:	Project Name: AMEC-KC-ENR
Email: gretchen.heavner@floydsnider.com	Email: cliff.whitmus@amecfw.com	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION	REPORT DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☑ I/II ☐ III ☐ IV	☐ Hardcopy	* per Gretchen to Kathy.
☑ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL	☑ CD (.pdf including EDDs if requested)	
	☑ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form

System #: Source #:

Sampler: Employer:

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	LDW-BA-SC-S010-PW-TB	7-28-16	1148	hexane									X			
2	LDW-BA-SU-S010-PW-TB	7-28-16	1158	hexane									X			
3	LDW-BA-IN-S010-PW-TB	7-28-16	1212	hexane									X			
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

**CONGENERS	**TEQ
☐ 2,3,7,8-TCDD only	☐ 1998 WHO
☐ 2,3,7,8-TCDD/F only	☐ 2005 WHO
☐ PCDD/F (Cl_4-Cl_8)	☐ Other

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Collin Ray Ramboll Environ	8.1.16	1200	Kathy Bipp K Zipp	8/4/16	930

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **10071**

Client:	Floyd | Snider
Client Project ID:	AMEC-KC-ENR
Date Received:	08/04/2016
Time Received:	09:30 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	3
Duplicates:	0
Storage Location:	R3

Method of Delivery:	Fed-Ex
Tracking Number:	776904122034
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	

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