

Lauridsen, Keld B - DNR

From: Miller, Roger <rmiller@geiconsultants.com>
Sent: Wednesday, September 18, 2019 3:23 PM
To: Lauridsen, Keld B - DNR
Cc: POMERVILLE, JACQUELYN; Killian, Paul
Subject: RE: G-P Broadway Mill Boiler 6 Area Sampling Approach

Thanks, Keld. We will work with G-P on the non-emergency notification form and follow up with you after we obtain the additional sampling data.

GEI ROGER A. MILLER, P.G., C.P.G.
Senior Hydrogeologist
920.455.8657 cell: 920.737.6373
3159 Voyager Drive, Green Bay, WI 54311



From: Lauridsen, Keld B - DNR <Keld.Lauridsen@wisconsin.gov>
Sent: Wednesday, September 18, 2019 3:12 PM
To: Miller, Roger <rmiller@geiconsultants.com>
Cc: POMERVILLE, JACQUELYN <JACQUELYN.POMERVILLE@GAPAC.COM>; 'Michael T. Moore' <Michael.Moore@gapac.com>; Mrotek, Melissa (GBY) <MELISSA.MROTEK@GAPAC.com>; Killian, Paul <pkillian@geiconsultants.com>; Chronert, Roxanne N - DNR <Roxanne.Chronert@wisconsin.gov>; Kelly, Bridget B - DNR <BridgetB.Kelly@wisconsin.gov>; Nobile, Trevor W - DNR <Trevor.Nobile@wisconsin.gov>
Subject: [EXT] RE: G-P Broadway Mill Boiler 6 Area Sampling Approach

Roger,

I have reviewed the additional work proposed below in order to define the degree and extent of remaining lead contaminated soil at the above referenced location. This email serves as your notice to proceed with the additional soil sampling activities. Depending on the soil sampling results, it needs to be evaluated if groundwater sampling for lead will be necessary.

Now that total lead above the groundwater pathway and non-industrial direct contact RCLs has been confirmed in soil, a release to the environment should be reported to DNR using the document in the link below:

<https://dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf>

As outlined in my email dated August 29, 2019, for the GP Broadway Mill Expansion site (BRRTS # 02-05-583452), it is anticipated that PFAS sampling will be completed at Georgia-Pacific Broadway facility at some point in the near future. A separate letter for the PFAS sampling related to the GP Broadway Mill Expansion case is in the process of being drafted.

Let me know if we need to discuss anything further.

Thanks,

-Keld

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Keld B. Lauridsen

Phone: (920) 662-5420

Keld.Lauridsen@wisconsin.gov

From: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Sent: Tuesday, September 3, 2019 1:55 PM
To: Miller, Roger <rmiller@geiconsultants.com>
Cc: POMERVILLE, JACQUELYN <JACQUELYN.POMERVILLE@GAPAC.COM>; 'Michael T. Moore' <Michael.Moore@gapac.com>; Mrotek, Melissa (GBY) <MELISSA.MROTEK@GAPAC.com>; Killian, Paul <pkillian@geiconsultants.com>; Lauridsen, Keld B - DNR <Keld.Lauridsen@wisconsin.gov>
Subject: RE: G-P Broadway Mill Boiler 6 Area Sampling Approach

Hi Roger,

Now that Keld is back, he will take over from here since he is the DNR project manager. I have included him on this email. After he got back from vacation, I provided him the information for this site that we had discussed while he was gone.

Regards,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Tauren R. Beggs

Phone: (920) 662-5178

Tauren.Beggs@wisconsin.gov

From: Miller, Roger <rmiller@geiconsultants.com>
Sent: Tuesday, September 3, 2019 1:44 PM
To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Cc: POMERVILLE, JACQUELYN <JACQUELYN.POMERVILLE@GAPAC.COM>; 'Michael T. Moore' <Michael.Moore@gapac.com>; Mrotek, Melissa (GBY) <MELISSA.MROTEK@GAPAC.com>; Killian, Paul <pkillian@geiconsultants.com>
Subject: G-P Broadway Mill Boiler 6 Area Sampling Approach

Tauren,

As a follow-up to our recent communications and on behalf of Georgia-Pacific Consumer Operations LLC (G-P), GEI Consultants, Inc. (GEI) is providing you with information on existing sampling results and the planned sampling approach to further characterize conditions in the Boiler 6 area (Figure 1) to support material management planning for the upcoming new boiler installation.

Project Background and Understanding

The Boiler 6 area occupies an approximately 3,000-square-foot portion along the central eastern side of the Broadway Mill. Contractors are currently removing the old boiler and associated equipment and structural elements as necessary to facilitate installation of a new boiler in the same area and potentially utilizing portions of the existing foundations. Planned construction will include excavating below the current footings to a depth of approximately 3.5 feet below top of the existing floor slab and backfilling with structural fill to install a 2-foot concrete mat foundation. Accordingly, material removed to this depth range including fill/soil likely would be excess material for proper management based on

its waste characterization. The excavation would be backfilled with engineered fill and a new concrete slab installed in the boiler room.

To support demolition planning for the Boiler 6 removal and material management, G-P environmental staff collected samples of fill beneath the floor slab for waste characterization testing. Samples were collected at depths of approximately 2 to 3 feet below the floor slab using hand tools at six locations (Sample IDs 1 through 6) at the approximate locations shown on the attached Figure 2. Sandy/clayey soil fill with occasional gravel was encountered beneath the building floor slab.

Fill samples were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs), semi-VOCs (SVOCs), Resource Conservation and Recovery Act (RCRA) metals; polychlorinated biphenyls (PCBs); and flashpoint. Sample 2 was also tested for total RCRA metals (see attached analytical laboratory reports). Significant testing results (TCLP lead and total lead), and fill descriptions are summarized in the following table:

Sample ID	TCLP Lead (mg/L)	Total Lead (mg/kg)	Fill Comments
1	<0.043	--	Reddish brown sandy fill, moist.
2	6.4	640	Reddish brown sandy fill, moist.
3	<0.043	--	Reddish brown sandy fill, moist.
4	0.044	--	Reddish brown sandy fill, some gravel, moist to wet.
5	<0.043	--	Reddish brown fill with black/dark brown/gray gravel, moist.
6	2.0	--	Black gravelly fill, moist to wet. Possible coal residues.

No PCBs or TCLP VOCs or SVOCs were detected in the samples.

TCLP lead was detected in Sample 2 (6.4 milligrams per liter [mg/L]) at a concentration exceeding its toxicity characteristic threshold of 5.0 mg/L. TCLP lead was detected in Samples 4 and 6 below the toxicity characteristic threshold.

In addition to lead, low-level barium (Samples 1 to 6) and cadmium (Sample 5) were detected in the TCLP extracts at concentrations three or more orders of magnitude below their respective toxicity characteristic thresholds.

To further assess the significance of the TCLP lead concentration in Sample 2, this sample was also analyzed for total RCRA metals. Total lead was detected in the sample at a concentration of 640 milligrams (mg/kg), which exceeds the WDNR's published background threshold value (BTV) for lead of 52 mg/kg, but is less than the NR 720, Wisconsin Administrative Code, industrial direct contact Residual Contaminant Level (RCL) of 800 mg/kg. Total barium (13 mg/kg), cadmium (0.089J mg/kg), and chromium (7.0 mg/kg) were detected at concentrations substantially less than their BTVs of 364, 1.07, and 43.5 mg/kg, respectively.

Lead was detected in the TCLP extract of one soil fill sample (Sample 2) at a concentration exceeding the RCRA toxicity characteristic. Accordingly, fill that is excavated and represented by the analytical results for Sample 2 would be classified as characteristic hazardous waste when removed/generated. Fill that is excavated and represented by the analytical results for the other samples would be classified as non-hazardous solid waste when removed/generated. Based on our review of the analytical data, including total metals data for Sample 2, lead is the only substance that has exceeded an applicable standard or waste management threshold. Accordingly, the proposed further subsurface assessment focuses on defining the extent of lead in fill/soil beneath the boiler room.

Sampling Approach and Schedule

Planned sample locations are depicted on Figure 2. The number and locations of soil probes will be determined during a walk-through of the Boiler 6 area. A contractor hired by G-P will core 3-inch diameter holes through the floor slab at the

selected probe locations to facilitate advancing approximately 2-inch-diameter, 4-foot-long core tubes into the subsurface for sample collection.

Based on current information, probes may be located adjacent to original Sample 2 for vertical definition and in 3 step-out probes located 5 feet away from and around Sample 2 (“inner ring” probes). Depending on accessibility, additional probes may be advanced approximately 10 feet from Sample 2 (“outer ring” probes). Probes will be advanced to depths ranging up to approximately 16 feet below surrounding grade to collect samples at 2- to 4-foot intervals for potential laboratory testing and to assess the depth of native soil if present at a reasonably shallow depth beneath the Boiler 6 area.

Initial testing will include TCLP lead for the sample interval below the original Sample 2 and in samples from the surrounding step-out probes collected at an approximate depth of 3 feet. Additional soil samples would be held for TCLP testing, as needed, to define the zone beneath and laterally around Sample 2 that would be classified as characteristic hazardous waste when excavated. After the zone of elevated TCLP lead is defined, additional samples would be analyzed for total lead to document anticipated post-construction conditions (construction depth of approximately 3.5 feet) and/or conditions in underlying or surrounding native clay, if encountered.

A written letter report will be prepared to document soil sampling activities. The report will include a summary of procedures and results, soil boring logs, tabular summary of TCLP and total lead data, and figures to illustrate sampling locations. We would also plan to coordinate a call or meeting with you to discuss the results and options for addressing the residual lead condition including potentially through a NR 708 No Further Action process and/or placing the site on the WDNR’s Geographic Information System (GIS) registry (e.g., for reliance on the industrial direct contact RCL for lead).

Geoprobe sampling is scheduled for September 23, 2019. The sampling documentation report will be provided after receipt of additional laboratory analytical results.

Please contact us with any questions.


Thank you,

GEI ROGER A. MILLER, P.G., C.P.G.
Senior Hydrogeologist
920.455.8657 cell: 920.737.6373
3159 Voyager Drive, Green Bay, WI 54311





Legend

 Boiler 6 Area

BOILER 6 AREA
GEORGIA-PACIFIC BROADWAY MILL
1919 S. BROADWAY
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

Drawn: TJF 8/28/2019

Approved: RAM 8/28/2019

Scale: AS SHOWN

Project Number: XXXXXXX

Figure Number: 1



ANALYTICAL RESULTS: PCBs by GC

Customer: Georgia-Pacific Consumer Products LP

NLS Project: 323844 PO # 01561595

Project Description: GBB Boiler 6 (B6)

Project Title:

Template: PCBS

Printed: 07/16/2019 15:28

Analyst: CSC

Sample: 1128294 Sample 1 Collected: 06/14/19 Analyzed: 07/08/19 - 92.5%Solids Analytes: 8

Notes: HX

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	75%		5			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

HX = A dilution was required due to complex sample matrix.

CL = The extract was subjected to florisil cleanup by SW846 Method 3620 before analysis.

IV = Initial extract is 2.05 grams.

Sample: 1128296 Sample 2 Collected: 06/14/19 Analyzed: 07/08/19 - 91.6%Solids Analytes: 8

Notes: HX

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	70%		5			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

HX = A dilution was required due to complex sample matrix.

CL = The extract was subjected to florisil cleanup by SW846 Method 3620 before analysis.

IV = Initial extract is 2.12 grams.

ANALYTICAL RESULTS: PCBs by GC

Customer: Georgia-Pacific Consumer Products LP

NLS Project: 323843 PO # 01561595

Project Description: GBB Boiler 6 (B6)

Project Title:

Template: PCBS

Printed: 07/16/2019 15:30

Analyst: CSC

Sample: 1128290 Sample 3 Collected: 06/14/19 Analyzed: 07/08/19 - 89.5%Solids Analytes: 8

Notes: HX

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	70%		5			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

HX = A dilution was required due to complex sample matrix.

CL = The extract was subjected to florisil cleanup by SW846 Method 3620 before analysis.

IV = Initial extract is 2.24 grams.

Sample: 1128292 Sample 4 Collected: 06/14/19 Analyzed: 07/08/19 - 87%Solids Analytes: 8

Notes: HX

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	75%		5			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

HX = A dilution was required due to complex sample matrix.

CL = The extract was subjected to florisil cleanup by SW846 Method 3620 before analysis.

IV = Initial extract is 2.04 grams.

ANALYTICAL RESULTS: PCBs by GC

Customer: Georgia-Pacific Consumer Products LP

NLS Project: 323801 PO # 01561595

Project Description: GBB Boiler 6 (B6)

Project Title:

Template: PCBS

Printed: 07/16/2019 15:29

Analyst: CSC

Sample: 1128224 Sample 5 Collected: 06/14/19 Analyzed: 07/08/19 - 87.6%Solids Analytes: 8

Notes: HX

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	84%		5			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

HX = A dilution was required due to complex sample matrix.

CL = The extract was subjected to florisil cleanup by SW846 Method 3620 before analysis.

IV = Initial extract is 2.15 grams.

Sample: 1128226 Sample 6 Collected: 06/14/19 Analyzed: 07/08/19 - 76.8%Solids Analytes: 8

Notes: HX

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	73%		5			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

HX = A dilution was required due to complex sample matrix.

CL = The extract was subjected to florisil cleanup by SW846 Method 3620 before analysis.

IV = Initial extract is 2.20 grams.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - TCLP - (VarSat2000)

Page 1 of 1

Customer: Georgia-Pacific Consumer Products LP NLS Project: 323844 PO # 01561595

Project Description: GBB Boiler 6 (B6)

Project Title: Template: SATTCLP Printed: 07/16/2019 15:28 Analyst: JLG

Sample: 1128295 TCLP Sample 1 Collected: 06/26/19 Analyzed: 07/10/19 - Analytes: 11

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroform	ND	ug/L	1	0.22	0.78	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Trichloroethene	ND	ug/L	1	0.32	1.1	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
Methyl ethyl ketone	ND	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	112%		1			S
Toluene-d8 (SURR)	105%		1			S
1-Bromo-4-Fluorobenzene (SURR)	92%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1128297 TCLP Sample 2 Collected: 06/26/19 Analyzed: 07/10/19 - Analytes: 11

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroform	ND	ug/L	1	0.22	0.78	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Trichloroethene	ND	ug/L	1	0.32	1.1	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
Methyl ethyl ketone	ND	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	123%		1			S
Toluene-d8 (SURR)	119%		1			S
1-Bromo-4-Fluorobenzene (SURR)	89%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - TCLP - (VarSat2000)

Page 1 of 1

Customer: Georgia-Pacific Consumer Products LP NLS Project: 323843 PO # 01561595

Project Description: GBB Boiler 6 (B6)

Project Title: Template: SATTCLP Printed: 07/16/2019 15:30 Analyst: JLG

Sample: 1128291 TCLP Sample 3 Collected: 06/25/19 Analyzed: 07/09/19 - Analytes: 11

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroform	ND	ug/L	1	0.22	0.78	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Trichloroethene	ND	ug/L	1	0.32	1.1	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
Methyl ethyl ketone	ND	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	111%		1			S
Toluene-d8 (SURR)	111%		1			S
1-Bromo-4-Fluorobenzene (SURR)	94%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1128293 TCLP Sample 4 Collected: 06/25/19 Analyzed: 07/09/19 - Analytes: 11

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroform	ND	ug/L	1	0.22	0.78	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Trichloroethene	ND	ug/L	1	0.32	1.1	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
Methyl ethyl ketone	ND	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	102%		1			S
Toluene-d8 (SURR)	108%		1			S
1-Bromo-4-Fluorobenzene (SURR)	100%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: Semi-Volatile Organic TCLP Compounds by GC/MS

Customer: Georgia-Pacific Consumer Products LP NLS Project: 323843 PO # 01561595

Project Description: GBB Boiler 6 (B6)

Project Title: Template: SVTCLP Printed: 07/16/2019 15:30 Analyst: RW

Sample: 1128291 TCLP Sample 3 Collected: 06/25/19 Analyzed: 06/28/19 - Analytes: 12

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Pyridine	ND	ug/L	1	1.7	5.7	
2-Methylphenol (o-Cresol)	ND	ug/L	1	0.74	2.5	
3 & 4-Methylphenol (m/p-Cresol)	ND	ug/L	1	1.4	4.6	
Nitrobenzene	ND	ug/L	1	0.82	2.7	
1,4-Dichlorobenzene	ND	ug/L	1	0.98	3.3	
2,4,6-Trichlorophenol	ND	ug/L	1	1.1	3.5	
2,4,5-Trichlorophenol	ND	ug/L	1	0.80	2.7	
2,4-Dinitrotoluene	ND	ug/L	1	0.84	2.8	
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4	
Hexachloroethane	ND	ug/L	1	0.67	2.2	
Hexachlorobenzene	ND	ug/L	1	0.69	2.3	
Pentachlorophenol	ND	ug/L	1	0.70	2.3	
2-Fluorophenol (SURR)	50%		1			S
Phenol-d5 (SURR)	33%		1			S
Nitrobenzene-d5 (SURR)	80%		1			S
2-Fluorobiphenyl (SURR)	79%		1			S
2,4,6-Tribromophenol (SURR)	73%		1			S
Terphenyl-d14 (SURR)	52%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1128293 TCLP Sample 4 Collected: 06/25/19 Analyzed: 06/28/19 - Analytes: 12

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Pyridine	ND	ug/L	1	1.7	5.7	
2-Methylphenol (o-Cresol)	ND	ug/L	1	0.74	2.5	
3 & 4-Methylphenol (m/p-Cresol)	ND	ug/L	1	1.4	4.6	
Nitrobenzene	ND	ug/L	1	0.82	2.7	
1,4-Dichlorobenzene	ND	ug/L	1	0.98	3.3	
2,4,6-Trichlorophenol	ND	ug/L	1	1.1	3.5	
2,4,5-Trichlorophenol	ND	ug/L	1	0.80	2.7	
2,4-Dinitrotoluene	ND	ug/L	1	0.84	2.8	
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4	
Hexachloroethane	ND	ug/L	1	0.67	2.2	
Hexachlorobenzene	ND	ug/L	1	0.69	2.3	
Pentachlorophenol	ND	ug/L	1	0.70	2.3	
2-Fluorophenol (SURR)	48%		1			S
Phenol-d5 (SURR)	31%		1			S
Nitrobenzene-d5 (SURR)	80%		1			S
2-Fluorobiphenyl (SURR)	84%		1			S
2,4,6-Tribromophenol (SURR)	79%		1			S
Terphenyl-d14 (SURR)	51%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL REPORT

Client: Georgia-Pacific Consumer Products LP
 Attn: Jackie Pomerville
 1919 S Broadway
 P O Box 19130
 Green Bay, WI 54307

NLS Project: 323844

NLS Customer: 91089

Fax: 920 438 2804 **PO #**

01561595

Project: GBB Boiler 6 (B6)

Sample 1 NLS ID: 1128294

COC: 209228:1 Matrix: SL
 Collected: 06/14/19 11:14 Received: 06/18/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	92.5	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					06/25/19	SW846 1311	721026460 VMK
TCLP Zero Head Space Extraction	yes					06/25/19	SW846 1311	721026460 VMK
Flashpoint	>140	Deg. F	1		*	06/20/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					07/08/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					06/21/19	SW846 3550C	721026460 EMT

TCLP Sample 1 NLS ID: 1128295

COC: 209228:1 Matrix: EX
 Collected: 06/26/19 14:15 Received: 06/26/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	06/30/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	180	ug/L	10	12*	40*	06/30/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	06/30/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	06/30/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	06/30/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.43	1.5	07/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	06/30/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	06/30/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					06/27/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					07/10/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					06/27/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					06/28/19	SW846 8270	721026460 RW

Sample 2 NLS ID: 1128296

COC: 209228:2 Matrix: SL
 Collected: 06/14/19 11:25 Received: 06/18/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	91.6	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					06/25/19	SW846 1311	721026460 VMK
TCLP Zero Head Space Extraction	yes					06/25/19	SW846 1311	721026460 VMK
Flashpoint	>140	Deg. F	1		*	06/20/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					07/08/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					06/21/19	SW846 3550C	721026460 EMT

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. WI00034

Printed: 07/16/19 Page 2 of 2

Client: Georgia-Pacific Consumer Products LP
 Attn: Jackie Pomerville
 1919 S Broadway
 P O Box 19130
 Green Bay, WI 54307

NLS Project: 323844

NLS Customer: 91089

Fax: 920 438 2804 **PO #**

01561595

Project: GBB Boiler 6 (B6)

TCLP Sample 2 NLS ID: 1128297

COC: 209228:2 Matrix: EX

Collected: 06/26/19 14:40 Received: 06/26/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	06/30/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	230	ug/L	10	12*	40*	06/30/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	06/30/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	06/30/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	6400	ug/L	10	43	140	06/30/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.43	1.5	07/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	06/30/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	06/30/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					06/27/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					07/10/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					06/27/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					06/28/19	SW846 8270	721026460 RW

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
 DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

CLIENT BBB GP Broadway		
ADDRESS 1919 S. Broadway		
CITY Green Bay	STATE WI	ZIP 54304
PROJECT DESCRIPTION / NO. BBB Boiler-6(B6)		QUOTATION NO.
DNR FID #		DNR LICENSE #
CONTACT Jacquelyn Pomeroy, IIC		PHONE 920-438-4243
PURCHASE ORDER NO. 01561595		FAX

Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)
Wisconsin DATCP ID
105-000330 (Cran) / 105-000479 (Wauk)

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS	TCLP BNA	VOCs	PCB	RESPIRANT	TCLP-Metals															
	G	G	G	G	G															



NO. **209228**

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS														COLLECTION REMARKS (i.e. DNR Well ID #)																				
			DATE	TIME		TCLP BNA	VOCs	PCB	RESPIRANT	TCLP-Metals																														
1	894-895	Sample 1	6-14-19	11:14AM	SOIL	X	X	X	X	X																														
2	896-897	Sample 2	6-14-19	11:25AM	SOIL	G	X	X	X	X																														
3.																																								
4.																																								
5.																																								
6.																																								
7.																																								
8.																																								
9.																																								
10.																																								

ONE SAMPLE PER LINE

COLLECTED BY (signature) <i>[Signature]</i>	CUSTODY SEAL NO. (IF ANY)		DATE/TIME 6-17-19 7:13	REPORT TO
RELINQUISHED BY (signature)	RECEIVED BY (signature)	DATE/TIME		
DISPATCHED BY (signature) <i>[Signature]</i>	METHOD OF TRANSPORT URS	DATE/TIME 6-17-19 7:13		
RECEIVED AT NLS BY (signature) <i>[Signature]</i>	DATE/TIME 6-18-19 10:00	CONDITION On ice	TEMP.	INVOICE TO
COOLER #	REMARKS & OTHER INFORMATION 12577 189 90 6638 5827			
<p>PRESERVATIVE:</p> <p>NP = no preservative S = sulfuric acid</p> <p>N = nitric acid Z = zinc acetate M = methanol</p> <p>OH = sodium hydroxide HA = hydrochloric & ascorbic acid H = hydrochloric acid</p>	WDNR FACILITY NUMBER	E-MAIL ADDRESS		

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Georgia-Pacific Consumer Products LP

CLIENT: Mike Moore
1919 South Broadway
P O Box 19130
Green Bay, WI 54307 9130

Please ship in 3 coolers (2 sets per cooler)

Cust 91089
Order # 72190
Ship Date 04/09/2019
Type SL

UPS Ground

Sample ID: Soil Samples

6 SETS

1 x 1L Amber Glass (Widemouth) Non-Preserved

TCLP - BNAs

TCLP - VOCs

1 x 300mL Amber Glass (Widemouth)

PCBs

1 x 4oz Glass Soil Jar

Flashpoint

1 x 500mL Plastic (Widemouth) Non-Preserved

TCLP - Metals

Shipped and Completed by: _____

ANALYTICAL REPORT

Client: Georgia-Pacific Consumer Products LP
Attn: Jackie Pomerville
1919 S Broadway
P O Box 19130
Green Bay, WI 54307

NLS Project: 323843

NLS Customer: 91089

Fax: 920 438 2804 **PO #**

01561595

Project: GBB Boiler 6 (B6)

Sample 3 NLS ID: 1128290

COC: 209229:1 Matrix: SL
Collected: 06/14/19 11:36 Received: 06/18/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	89.5	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					06/24/19	SW846 1311	721026460 VMK
TCLP Zero Head Space Extraction	yes					06/24/19	SW846 1311	721026460 VMK
Flashpoint	>140	Deg. F	1		*	06/20/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					07/08/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					06/21/19	SW846 3550C	721026460 EMT

TCLP Sample 3 NLS ID: 1128291

COC: 209229:1 Matrix: EX
Collected: 06/25/19 08:40 Received: 06/25/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	06/26/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	210	ug/L	10	12*	40*	06/26/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	06/26/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	06/26/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	06/26/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.43	1.5	07/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	06/26/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	06/26/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					06/25/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					07/09/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					06/27/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					06/28/19	SW846 8270	721026460 RW

Sample 4 NLS ID: 1128292

COC: 209229:2 Matrix: SL
Collected: 06/14/19 11:45 Received: 06/18/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	87.0	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					06/24/19	SW846 1311	721026460 VMK
TCLP Zero Head Space Extraction	yes					06/24/19	SW846 1311	721026460 VMK
Flashpoint	>140	Deg. F	1		*	06/20/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					07/08/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					06/21/19	SW846 3550C	721026460 EMT

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. WI00034

Printed: 07/16/19 Page 2 of 2

Client: Georgia-Pacific Consumer Products LP
 Attn: Jackie Pomerville
 1919 S Broadway
 P O Box 19130
 Green Bay, WI 54307

NLS Project: 323843

NLS Customer: 91089

Fax: 920 438 2804 **PO #**

01561595

Project: GBB Boiler 6 (B6)

TCLP Sample 4 NLS ID: 1128293

COC: 209229:2 Matrix: EX

Collected: 06/25/19 10:30 Received: 06/25/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	06/26/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	250	ug/L	10	12*	40*	06/26/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	06/26/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	06/26/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	[44]	ug/L	10	43	140	06/26/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.43	1.5	07/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	06/26/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	06/26/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					06/25/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					07/09/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					06/27/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					06/28/19	SW846 8270	721026460 RW

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
 DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

CLIENT <i>BP Broadway</i>		
ADDRESS <i>1919 S Broadway</i>		
CITY <i>Green Bay</i>	STATE <i>WI</i>	ZIP <i>54304</i>
PROJECT DESCRIPTION / NO. <i>QBB Boiler 6 (B6)</i>		QUOTATION NO.
DNR FID #		DNR LICENSE #
CONTACT <i>Jackie Pomeroy</i>		PHONE <i>920-438-4243</i>
PURCHASE ORDER NO. <i>01561595</i>		FAX

Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)
Wisconsin DATCP ID
105-000330 (Cran) / 105-000479 (Wauk)

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

ANALYZE PER ORDER OF ANALYSIS	USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered. Indicate G or C if WW Sample is Grab or Composite.									
	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>
<i>TEMP-BNA</i>	<i>PCBS</i>	<i>FLUOROPNT</i>	<i>TEMP-Mols</i>	<i>VOCIS</i>						



NO. **209229**

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS										COLLECTION REMARKS (i.e. DNR Well ID #)								
			DATE	TIME		TEMP-BNA	PCBS	FLUOROPNT	TEMP-Mols	VOCIS														
1	28290-29	Sample 3	6-14-19	11:36am	SOIL	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>														
2	292-293	Sample 4	6-14-19	11:45am	SOIL	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>														
3.																								
4.																								
5.																								
6.																								
7.																								
8.																								
9.																								
10.																								

COLLECTED BY (signature) <i>[Signature]</i>	CUSTODY SEAL NO. (IF ANY)	DATE/TIME <i>6-17-19 7:13</i>	REPORT TO
RELINQUISHED BY (signature)	RECEIVED BY (signature)	DATE/TIME	
DISPATCHED BY (signature) <i>[Signature]</i>	METHOD OF TRANSPORT <i>UPS</i>	DATE/TIME <i>6-17-19 7:13</i>	
RECEIVED AT NLS BY (signature) <i>[Signature]</i>	DATE/TIME <i>6-18-19 10:00</i>	CONDITION <i>on ice</i>	TEMP.
COOLER #	REMARKS & OTHER INFORMATION <i>12 577 189 90 6676 9789</i>		
<p>PRESERVATIVE: NP = no preservative S = sulfuric acid</p> <p>N = nitric acid Z = zinc acetate M = methanol</p> <p>OH = sodium hydroxide HA = hydrochloric & ascorbic acid H = hydrochloric acid</p>	WDNR FACILITY NUMBER	E-MAIL ADDRESS	INVOICE TO

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Rev. 7/20/15

ANALYTICAL REPORT

Client: Georgia-Pacific Consumer Products LP
Attn: Jackie Pomerville
1919 S Broadway
P O Box 19130
Green Bay, WI 54307

NLS Project: 323801

NLS Customer: 91089

Fax: 920 438 2804 **PO #**

01561595

Project: GBB Boiler 6 (B6)

Sample 5 NLS ID: 1128224

COC: 209227:1 Matrix: SO

Collected: 06/14/19 11:55 Received: 06/18/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	87.6	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					06/24/19	SW846 1311	721026460 VMK
TCLP Zero Head Space Extraction	yes					06/24/19	SW846 1311	721026460 VMK
Flashpoint	>140	Deg. F	1		*	06/20/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					07/08/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					06/21/19	SW846 3550C	721026460 EMT

TCLP Sample 5 NLS ID: 1128225

COC: 209227:1 Matrix: EX

Collected: 06/25/19 09:30 Received: 06/25/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	06/26/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	280	ug/L	10	12*	40*	06/26/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	[3.4]	ug/L	10	1.9	6.1	06/26/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	06/26/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	06/26/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.43	1.5	07/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	06/26/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	06/26/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					06/25/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					07/09/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					06/27/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					06/28/19	SW846 8270	721026460 RW

Sample 6 NLS ID: 1128226

COC: 209227:2 Matrix: SO

Collected: 06/14/19 12:05 Received: 06/18/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	76.8	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					06/24/19	SW846 1311	721026460 VMK
TCLP Zero Head Space Extraction	yes					06/24/19	SW846 1311	721026460 VMK
Flashpoint	>140	Deg. F	1		*	06/20/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					07/08/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					06/21/19	SW846 3550C	721026460 EMT

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. WI00034

Printed: 07/16/19 Page 2 of 2

Client: Georgia-Pacific Consumer Products LP
 Attn: Jackie Pomerville
 1919 S Broadway
 P O Box 19130
 Green Bay, WI 54307

NLS Project: 323801

NLS Customer: 91089

Fax: 920 438 2804 **PO #**

01561595

Project: GBB Boiler 6 (B6)

TCLP Sample 6 NLS ID: 1128227

COC: 209227:2 Matrix: EX

Collected: 06/25/19 10:00 Received: 06/25/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	06/26/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	680	ug/L	10	12*	40*	06/26/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	06/26/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	06/26/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	2000	ug/L	10	43	140	06/26/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.43	1.5	07/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	06/26/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	06/26/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					06/25/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					07/09/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					06/27/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					06/28/19	SW846 8270	721026460 RW

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
 DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)
Wisconsin DATCP ID
105-000330 (Cran) / 105-000479 (Wauk)

CLIENT <i>GP Broadway</i>		
ADDRESS <i>1919 S Broadway</i>		
CITY <i>Green Bay</i>	STATE <i>WI</i>	ZIP <i>54304</i>
PROJECT DESCRIPTION / NO. <i>BBB Boiler 6 (B6)</i>		QUOTATION NO.
DNR FID #	DNR LICENSE #	
CONTACT <i>Jackie Demerotte</i>		PHONE <i>920-438-4243</i>
PURCHASE ORDER NO. <i>01561595</i>		FAX

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

ANALYZE PER ORDER OF ANALYSIS	USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered. Indicate G or C if WW Sample is Grab or Composite.										COLLECTION REMARKS (i.e. DNR Well ID #)	
	TEL-P-BW	PEBS	FLASHPOINT	TEL-P-Metals	VOCs							
	X	X	X	X	X							
	X	X	X	X	X							



NO. **209227**

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS										COLLECTION REMARKS (i.e. DNR Well ID #)		
			DATE	TIME		TEL-P-BW	PEBS	FLASHPOINT	TEL-P-Metals	VOCs								
1.	224-225	Sample 5	6-14-19	11:55am	SOIL	X	X	X	X	X								
2.	226-227	Sample 6	6-14-19	12:05pm	SOIL	X	X	X	X	X								
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

COLLECTED BY (signature) <i>[Signature]</i>	CUSTODY SEAL NO. (IF ANY)	DATE/TIME <i>6-17-19 7:13</i>	REPORT TO
RELINQUISHED BY (signature)	RECEIVED BY (signature)	DATE/TIME	
DISPATCHED BY (signature) <i>[Signature]</i>	METHOD OF TRANSPORT <i>UPS</i>	DATE/TIME <i>6-17-19 7:13</i>	
RECEIVED AT NLS BY (signature) <i>[Signature]</i>	DATE/TIME <i>6/18/19 10</i>	CONDITION <i>OK MIA</i>	TEMP.
COOLER #	REMARKS & OTHER INFORMATION <i>12577 189 90 6522 7811</i>		
PRESERVATIVE: NP = no preservative S = sulfuric acid	N = nitric acid Z = zinc acetate M = methanol	OH = sodium hydroxide HA = hydrochloric & ascorbic acid H = hydrochloric acid	WDNR FACILITY NUMBER E-MAIL ADDRESS

IMPORTANT:

- TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
- PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
- RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
- PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Rev. 7/20/15

Georgia-Pacific Consumer Products LP

CLIENT: Mike Moore
1919 South Broadway
P O Box 19130
Green Bay, WI 54307 9130

Please ship in 3 coolers (2 sets per cooler)

Cust 91089
Order # 72190
Ship Date 04/09/2019
Type SL

UPS Ground

Sample ID: Soil Samples

6 SETS

1 x 1L Amber Glass (Widemouth) Non-Preserved

TCLP - BNAs

TCLP - VOCs

1 x 300mL Amber Glass (Widemouth)

PCBs

1 x 4oz Glass Soil Jar

Flashpoint

1 x 500mL Plastic (Widemouth) Non-Preserved

TCLP - Metals

Shipped and Completed by: _____

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. WI00034

Printed: 08/08/19 Page 1 of 1

Client: Georgia-Pacific Consumer Products LP
 Attn: Jackie Pomerville
 1919 S Broadway
 P O Box 19130
 Green Bay, WI 54307

NLS Project: 326817

NLS Customer: 91089

Fax: 920 438 2804 **PO #**

01561595

Project: Relog Sample 1128296

Sample 2 (relog) NLS ID: 1137187

COC: 209228:2 Matrix: SO

Collected: 06/14/19 11:25 Received: 06/18/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable as As by ICP	ND	mg/Kg DWB	5	1.3	4.3	08/06/19	SW846 6010	721026460 JDO
Barium, tot. recoverable as Ba by ICP	13	mg/Kg DWB	5	0.32*	1.1*	08/06/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable as Cd by ICP	[0.089]	mg/Kg DWB	5	0.051	0.16	08/06/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable as Cr by ICP	7.0	mg/Kg DWB	5	0.22	0.75	08/06/19	SW846 6010	721026460 JDO
Lead, tot. recoverable as Pb by ICP	640	mg/Kg DWB	5	1.2	3.8	08/06/19	SW846 6010	721026460 JDO
Mercury, total as Hg on solids	ND	mg/Kg DWB	1	0.042	0.14	08/05/19	SW846 7471B	721026460 RS
Selenium, tot. recoverable as Se by ICP	ND	mg/Kg DWB	5	3.2*	11*	08/06/19	SW846 6010	721026460 JDO
Silver, tot. recoverable as Ag by ICP	ND	mg/Kg DWB	5	0.22	0.73	08/06/19	SW846 6010	721026460 JDO
Solids, total on solids	91.6	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
Metals digestion - tot. recov (solid) ICP	yes					08/01/19	SW846 3050	721026460 RSK

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

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DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L

MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

CLIENT <i>BBB BP Broadway</i>		
ADDRESS <i>199 S. Broadway</i>		
CITY <i>Green Bay</i>	STATE <i>WI</i>	ZIP <i>54304</i>
PROJECT DESCRIPTION / NO. <i>BBB Boiler-6(B6)</i>		QUOTATION NO.
DNR FID #	DNR LICENSE #	
CONTACT <i>Jacquelyn Pomeroy</i>		PHONE <i>920-438-4243</i>
PURCHASE ORDER NO. <i>01561595</i>		FAX

Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)
Wisconsin DATCP ID
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MATRIX:
SW = surface water
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GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

ANALYZE PER ORDER OF ANALYSIS	USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered. Indicate G or C if WW Sample is Grab or Composite.										
	TCMP	BNA	VOCs	PCB	FLASHPOINT	TCMP-Metals					
	X	X	X	X	X						
	X	X	X	X	X						



NO. 209228

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS										COLLECTION REMARKS (i.e. DNR Well ID #)						
			DATE	TIME		TCMP	BNA	VOCs	PCB	FLASHPOINT	TCMP-Metals											
1.	894-895	Sample 1	6-14-19	11:14AM	SOIL	X	X	X	X	X												
2.	896-897	Sample 2	6-14-19	11:25AM	SOIL	X	X	X	X	X												
3.	1137187																					
4.																						
5.																						
6.																						
7.																						
8.																						
9.																						
10.																						

COLLECTED BY (signature)	CUSTODY SEAL NO. (IF ANY)		DATE/TIME <i>6-17-19 713</i>
RELINQUISHED BY (signature)	RECEIVED BY (signature)	DATE/TIME	
DISPATCHED BY (signature)	METHOD OF TRANSPORT <i>UPS</i>	DATE/TIME <i>6-17-19 713</i>	
RECEIVED AT NLS BY (signature)	DATE/TIME <i>6-18-19 10:00</i>	CONDITION <i>on ice</i>	TEMP.
COOLER #	REMARKS & OTHER INFORMATION <i>18577 189 90 6638 5827</i>		
PRESERVATIVE: NP = no preservative S = sulfuric acid	N = nitric acid Z = zinc acetate M = methanol	OH = sodium hydroxide HA = hydrochloric & ascorbic acid H = hydrochloric acid	WDNR FACILITY NUMBER E-MAIL ADDRESS

REPORT TO
INVOICE TO

IMPORTANT

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