## Lauridsen, Keld B - DNR

From: Maletzke, Jeff < Jeff.Maletzke@aecom.com>

**Sent:** Tuesday, April 16, 2019 12:56 PM

**To:** Lauridsen, Keld B - DNR

**Cc:** Cole, Albert; Kraeutler, Thomas M.

**Subject:** GP-P3 data

**Attachments:** final 60594990 boring logs\_b-101 thru b-105\_2-27-19.pdf; Final\_101-105.pdf;

Final\_tmplt\_PCBS.pdf; Final\_tmplt\_SATTCLP.pdf; Final\_tmplt\_SVTCLP.pdf; Summary of

Parameters Detected - 041519.pdf; GP BRRTS SITES-11 x 17.pdf

#### Good Afternoon Keld:

Thanks for agreeing to have a conference call tomorrow to discuss the Georgia-Pacific Broadway Mill Expansion project. As we discussed please find attached a Table summarizing the analytical data which contains all of the detected chemicals, the boring logs for the geotechnical investigation, and a map showing the locations of the samples. We are looking forward to discussing the options for managing the urban fill material we have identified on the site as well as the soils from the nearby BRRTS sites identified on the figure which may need to be managed also. As you will see from the logs much of the site has three to seven feet of coal immediately below grade. We would like to discuss our options for managing the coal and the urban fill material including excavation and removal or capping in place with the building and roadways.

Regards,

#### **Bert Cole**

Senior Program Manager D 920.236.6721 M 920.205.4686

#### **AECOM**

558 North Main Street, Oshkosh, WI 54901 F 920.235.0321 www.aecom.com

Jeffrey D. Maletzke, PG

Senior Hydrogeologist Central Midwest Region D 920.406.3110 C 920.698.6353 jeff.maletzke@aecom.com



2985 South Ridge Road Suite B Green Bay, WI 54304 T 920.468.1978 www.aecom.com

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# **Summary of Parameters Detected January/February 2019**

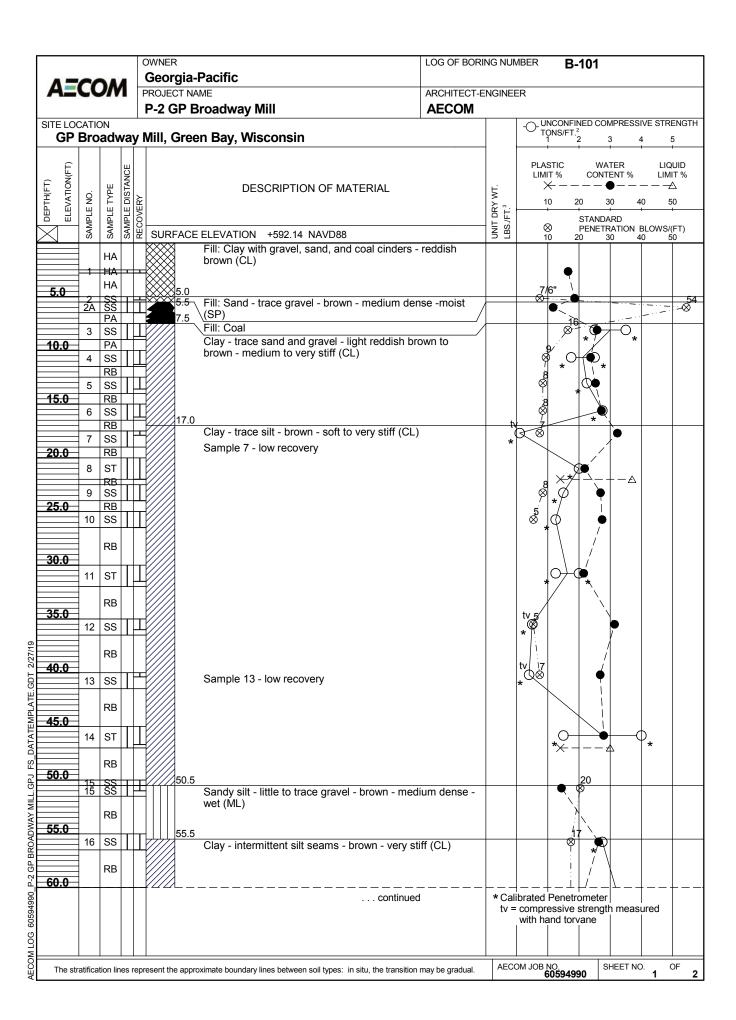
# **Project PACE Mill Expansion**

# Georgia Pacific Broadway Mill - Green Bay, Wisconsin Project No. 60594990

Parameter	Unit	B-101	B-102	B-103	B-104A	B-105
Barium	ug/L	710	210	450	330	370
Cadmium	ug/L		[2.8]			[2.1]
PCB-1242	ug/Kg	490				
PCB-1260	ug/Kg	500				
Total PCBs	ug/Kg	990				
Benzene	ug/L			4.4	[0.55]	[0.50]
Methy ethyl ketone	ug/L	[1.8]	2.5	[1.5]	[0.67]	[0.59]

#### Notes:

- 1. With the exception of PCBs, samples were analyzed by the Toxicity Characteristic Leaching Procedure (TCLP).
- 2. Values in brackets represent results greater than or equal to the Limit of Detection (LOD), but less than the Limit of Quantitation (LOQ), and are within a region of "less certain quantitation."
- 3. Only parameters with detections are shown.



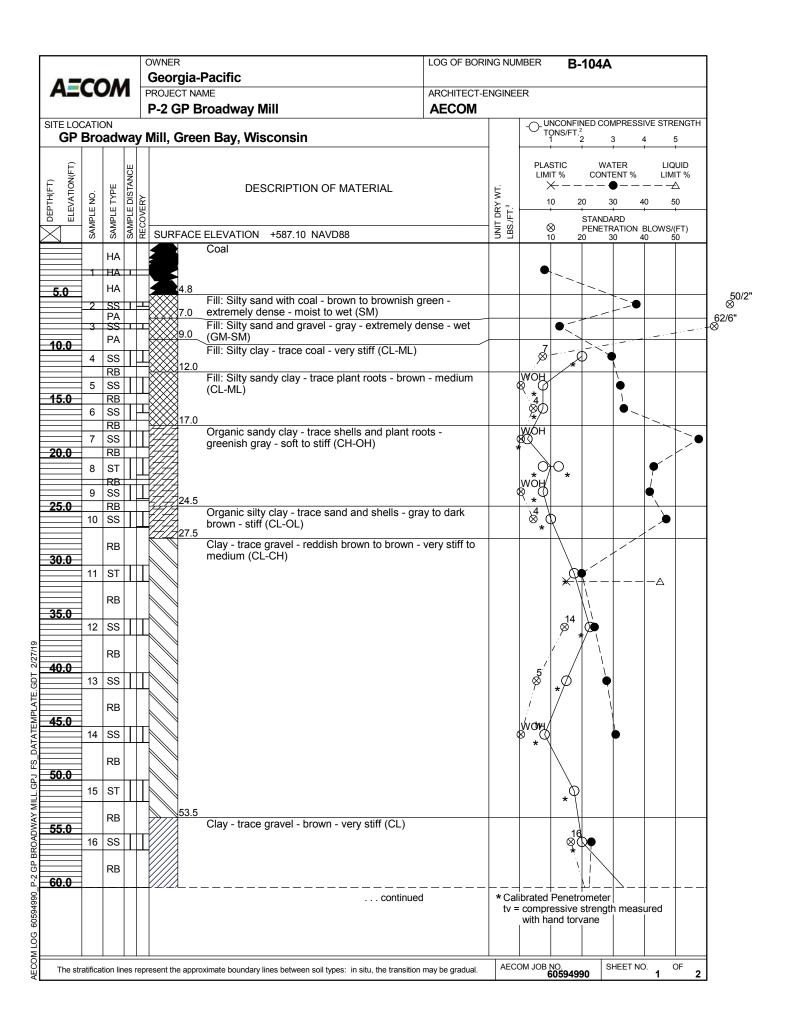
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	-	<i>)</i>		- 1	PROJECT N	<sub>IAME</sub> Broadway Mil	11	ARCHITE AECO		NGINEE	:R					
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					63.5	5						<b>/</b> \.	*/			
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	25	00	Н	Ħ							* /					
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						Boring advance	ced from 10 to 106.5 feet l									
						drilling fluid Temporary HV	V casing driven to 12.5 fe	et								
						Standard Pen	etration Test performed w	ith automatic								
						hammer Boring backfill	ed with bentonite chips to	20 feet and								
						bentonite grou	it from 20 to 106.5 feet									
	The	stra	<u>└</u>		ion lines re	enresent the ann	roximate boundary lines h	ines between soil types: in situ, the transition may be gradual.				=				
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(FT)			SAMPLE DISTANCE					PLASTIC WATER LIQU
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	δ	δ	S B	SUR	FACE ELEVATION +587.04 NAVD88 Fill: Coal and cinders		5 9	10 20 30 40 50
		НА						
	1	HA HA	7		3.0 Fill: Silty clay - trace wood - light brown (CL	-ML)		
5.0	2	HA		↵⋙	, , , , , , , , , , , , , , , , , , ,	,		
		PA						
	3	SS			9.5			
10.0	4	PA SS	$\prod$		Clay - trace gravel - light brown to light redo	lish brown -		
	4	PA	Щ	4///	very stiff to hard (CL)			*
	5	SS	Ш		14.5			
<del>15.0</del>	_	PA			Clay - trace gravel - brown - very stiff (CL)			<b>⊗</b> <sup>13</sup> • *
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								with hand torvane
					ne approximate boundary lines between soil types: in situ, the transiti		AFO(	OM JOB NO. 60594990 SHEET NO. 0

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20 20	SS	<u> </u>	H	75.5 Silty sand with	gravel - brown - extremely to ve	erv dense	-					
				wet (SM)	J. I. Z.	. , 20.100						
30.0	RI	٥										
21	SS	3	П						lack rack rac			Ø
5.0	RI	3		Silty sandy cla	y with gravel - brown - stiff (CL-	ML)				32/ Ø		
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07.0					lard drilling from 104.7 to 105.5 lock bit refusal at 107 feet							
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				drilling fluid Temporary HV	/ casing driven to 15 feet							
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				hammer Boring backfille	ed with bentonite chips to 15 fee	et and						
				bentonite grou	t from 15 to 107 feet							
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L					RIG/FOREMAN		APP'D BY		AECOM JOB	NO.		
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==		RB				63.5									
65.0		IVD				Clay - trace sa	nd and gravel - trace silt se	ams - brown	to		ty s./				
	18	SS				readish brown	- stiff to very stiff (CL-CH)				tv 6		•		
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05.0						105.8 Possible Bedro								$\perp$	
						Drillers note: R	Rock bit refusal at 104.8, dril	led to 105.8	/			Penetrome essive stre		 asured	
						Boring advanc	ed from to 5.5 feet by hand	auger				nd torvane			
						Boring advanc	ed from 5.5 to 15 feet by po ed from 15 to 105.8 feet by	wer auger							
						drilling fluid	ed from 15 to 105.6 feet by	TOCK DIL ATIO							
						Temporary HV	V casing driven to 25 feet etration Test performed with	ith automatic							
						hammer	etration rest periornied with	automatic							
							ed with bentonite chips to 15	15 feet and							
						bentonite grou	t from 15 to 105.8 feet								
TI	he	strat	tific	ati	ion line	es represent the app		ines between soil types: in situ, the transition may be gradual.							
ORTHING	2	2472	42.	367	7		BORING STARTED 1/22/19		AEC	OM OFF	ICE	Oshkosl	1		
STING	2	2482	881	1.49	99		BORING COMPLETED 1/24/19		ENT	ERED B'	 Y <b>B</b>	SHEET N	IO. <b>2</b>	OF <b>2</b>	
L							RIG/FOREMAN		APP	'D BY		AECOM	JOB NO.	4000	
	1	13.3	W	•			עריאט (SES) חרישטים (	50/JD (SES) JMT 60594990							



				C	WNE	₹		LOG OF I	BORIN	IG NUI	/IBER	B-104A	1			
A=C		74	A			gia-Pacific										
M=		JIV	4			CT NAME		ARCHITE		NGINE	ĒR					
					P-2 (	SP Broadway Mil		AECO	M		- 11110	ONEINED OC	MDDEOON	/E OTDE	NOTIL	
GP F			va	v N	viii (	Green Bay, Wisc	onsin				-O-TON	ONFINED CC S/FT. <sup>2</sup> 2	3 4	VE STRE 5		
0, 1	510	auv	Va	y '' ∏	VIIII, \	Sieen Day, Wisc	Oligili						3 4			
Ē			삥								PLAST		ATER	LIQU		
EVATION(FT)		ш	SAMPLE DISTANCE			DESC	RIPTION OF MATERIAL			<sub>⊏</sub>	LIMIT (		TENT % ● — — -	LIMI1 <u> </u>		
ELEVATION	9	SAMPLE TYPE	DIS	<u>₩</u>		5200	THE FIGURE OF MAKE LINE			UNIT DRY WT. LBS./FT.³	10	20	30 40	50	)	
	SAMPLE NO.	PE.	Ш	RECOVERY						T PR		STAND		-		
	SAN	SAN	SAN	REC	SUR	FACE ELEVATION +	-587.10 NAVD88	(Continu	ued)	LBS	⊗ 10	PENET 2021	RATION B 30 40		FT)	
	17	SS		Ш		Clay - trace gr	avel - brown - very stiff (CL)									
		RB				63.5										
65.0		KD			///		medium to stiff (CL-CH)				<b>5</b> , 0					
	18	SS	П								tv a					
											<b>*</b> /		il l			
70.0		RB											\			
	19	ss	П	П						(	w on					
			Ī	П							*					
<b>'5.0</b>		RB				]					\					
	20	ST	IT	П		•						9				
			Н	Н		;						*/				
30.0		RB				:						/				
	21	SS	IT	П		;				(	WOH   Ø	5				
			Ī.	П							*/		<u> </u>			
35.0		RB				,					<sub>tv</sub> /					
55.0	22 22	SS SS	Ħ	H	$\gg \sim$	85.7	brown - soft (CL)				IWÔH B		•			
			Г			87.5	, ,	1.66.1								
0.0		RB				stiff (CL)	ınd - reddish brown to gray -	very stiff to								
	23	SS	IT	П		, , ,						`& <b>*</b>				
			Г	М								<b>*</b> \				
95.0		RB										+1				
	24	SS	IT	П								½16 ⊗	•			
			Г	Ш							,	/ <b>/</b>				
00.0		RB									_/					
00.0	25	SS	ΙТ	П							§[0	<u> </u>				
			Г	П								>	1			
05.0		RB			/// o.\/\	103.8 Silty sand and	gravel - gray - extremely der	nse - wet				/	+ 1			
06.4	26	SS RB	H	H		106 4 (SM-GM)			.						[	
				П	· · · · · ·	Drillers note: F	Rock bit refusal at 106.2 feet	aue to bould	ier /			enetromete		una ci		
						End of Boring			/	tv =		sive streng d torvane	ເກ measເ 	ırea		
							ed from to 5.5 feet by hand a ed from 5.5 to 10 feet by pover									
						Boring advance	ed from 10 to 106.2 feet by r	ock bit and								
						drilling fluid Temporary HV	V casing driven to 15 feet									
						Standard Pene	etration Test performed with	n automatic								
						hammer Boring backfille	ed with bentonite chips to 15	o 15 feet and								
							t from 15 to 106.4 feet									
	The	stra	tific	<u> </u>	ition lines represent the approximate boundary line			es between soil types: in situ, the transition may be gradual.								
RTHING							BORING STARTED	AECOM OFFICE Ochkoch								
ASTING		2470	υ0.	699	,		1/24/19 BORING COMPLETED 2/5/19	OA/10 USIIKUSII								
		2482	628	3.53												
_		5.0 V	vs	/ 4.	5 BCI	RIG/FOREMAN APP'D BY AECOM JOB NO.										

OWNER LOG OF BORING NUMBER Georgia-Pacific Boring offset 2 ft. south A=COM PROJECT NAME ARCHITECT-ENGINEER P-2 GP Broadway Mill **AECOM** -O- UNCONFINED COMPRESSIVE STRENGTH TONS/FT.<sup>2</sup> 1 2 3 4 5 SITE LOCATION GP Broadway Mill, Green Bay, Wisconsin PLASTIC WATER LIQUID SAMPLE DISTANCE **ELEVATION(FT** LIMIT % CONTENT % LIMIT % DEPTH(FT) **DESCRIPTION OF MATERIAL**  $-\!\!\Delta$ SAMPLE TYPE UNIT DRY WT. LBS./FT.³ SAMPLE NO. RECOVERY 10 30 STANDARD ⊗ 10 PENETRATION BLOWS/(FT) SURFACE ELEVATION +588.49 NAVD88 Coal HA 5.0 <del>\_\_\_15</del> ⊗ Fill: Clay - light brown to brown - very stiff (CL) 1 SS PΑ 8 2 SS 10.0 PA ø Ø Slightly orgranic clay - trace shells - gray - stiff (CL-OL) SS 12.0 RB Clay - trace sand - reddish brown to brown - stiff (CL) **4** ⊗ SS 4 <del>15.0</del> RB Clay - trace gravel - reddish brown to brown - very stiff to hard (CL) 5 SS 3 RB 6 SS <del>20.0</del> RB 7 SS RB 8 SS 25.0 RB 9 SS RB Clay - reddish brown - very stiff (CL) 30.0 10 SS RB Clay - reddish brown to brown -stiff to medium (CL) 35.0 11 SS RB 40.0 DATATEMPLATE.GDT 12 SS RB 45.0 13 ST GPJ FS RB Clay - brown to grayish brown - medium to very stiff (CL) <del>50.0</del> 14 SS AECOM LOG 60594990 P-2 GP BROADWAY MILL. RB <del>55.0</del> 15 SS RB 60.0 \* Calibrated Penetrometer ... continued tv = compressive strength measured with hand torvane AECOM JOB NO. 60594990 SHEET NO. The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

OWNER LOG OF BORING NUMBER Georgia-Pacific Boring offset 2 ft. south A=COM PROJECT NAME ARCHITECT-ENGINEER P-2 GP Broadway Mill **AECOM** -O- UNCONFINED COMPRESSIVE STRENGTH SITE LOCATION TONS/FT.<sup>2</sup> GP Broadway Mill, Green Bay, Wisconsin 3 PLASTIC WATER LIQUID SAMPLE DISTANCE **ELEVATION(FT** LIMIT % CONTENT % LIMIT % DEPTH(FT) <u>~</u> **DESCRIPTION OF MATERIAL** SAMPLE TYPE T DRY WT. SAMPLE NO. RECOVERY 10 50 20 30 STANDARD UNIT LBS./I ⊗ 10 PENETRATION BLOWS/(FT) SURFACE ELEVATION +588.49 NAVD88 (Continued) Clay - brown to grayish brown - medium to very stiff (CL) ST 16 Ø RB 65.0 MACH MACH 17 SS RB 70.0 18 ST RB <del>75.0</del> 19 SS RΒ 80.0 20 ST Q RB 85.0 WOH R 21 SS Clay - brown to reddish brown - stiff (CL) RB 90.0 22 SS RB 95.0 23 SS Trace sand and gravel in sample 23 RB Clay - reddish brown - stiff (CL) 100.0 .GDT ⊗ 7 24 SS P-2 GP BROADWAY MILL.GPJ FS DATATEMPLATE. RB 105.0 60/2" Silty sand and gravel - gray - extremely dense - wet (SM-GM) RB Drillers note: Hard drilling at 105.7 feet. Rock bit refusal at 106.7 feet \* Calibrated Penetrometer tv = compressive strength measured End of Boring with hand torvane Boring advanced from to 5.2 feet by hand auger Boring advanced from 5.2 to 10 feet by power auger Boring advanced from 10 to 106.7 feet by rock bit and drilling fluid Temporary HW casing driven to 12.5 feet Standard Penetration Test performed with automatic hammer Boring backfilled with bentonite chips to 15 feet and bentonite grout from 15 to 106.7 feet 60594990 The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual. NORTHING **BORING STARTED** AECOM OFFICE Oshkosh 246560.782 BORING COMPLETED 2/7/19 **AECOM LOG** EASTING ENTERED BY MLB SHEET NO. 2482440.815 2 RIG/FOREMAN APP'D BY WL AECOM JOB NO. D-50/JD (SES) 60594990 5.0 WS

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

Georgia-Pacific Consumer Products LP

Attn: Mike Moore 1919 South Broadway P O Box 19130

Green Bay, WI 54307 9130

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

EPA Laboratory ID No. WI00034

Printed: 03/01/19 Page 1 of 3

NLS Project: 315265

NLS Customer: 91089

Fax: 920 438 2804 PO#

1547401

Project: GBB Soil

Client:

101	NLS ID:	1102921
COC:	224490:1	Matrix: SO

Collected: 01/24/19 14:00 Received: 01/25/19

00110010a: 01/21/1/11:00 11000110a: 01/20/1/								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	87.7	%	1	0.10*		01/31/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					01/28/19	SW846 1311	721026460 JDO
TCLP Zero Head Space Extraction	yes					01/28/19	SW846 1311	721026460 JDO
Flashpoint	>140	Deg. F	1		*	02/05/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					02/27/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					02/18/19	SW846 3546	721026460 EMT

#### TCLP 101 NLS ID: 1102922

COC: 224490:1 Matrix: EX

Collected: 01/29/19 12:30 Received: 01/29/19

Collected. 01/29/19 12.30 Received. 01/29/19								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	01/31/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	710	ug/L	10	12*	40*	01/31/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	01/31/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	01/31/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	01/31/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.47	1.5	02/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	01/31/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	01/31/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					01/29/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					02/01/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					01/31/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					02/08/19	SW846 8270	721026460 RW

102 NLS ID: 1102923 COC: 224491:2 Matrix: SO

Collected: 01/24/19 14:00 Received: 01/25/19

Collected. 01/24/19 14.00 Received. 01/25/19								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	81.6	%	1	0.10*		01/31/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					01/28/19	SW846 1311	721026460 JDO
TCLP Zero Head Space Extraction	yes					01/28/19	SW846 1311	721026460 JDO
Flashpoint	>140	Deg. F	1		*	02/05/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					02/14/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					01/30/19	SW846 3546	721026460 CSC

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

EPA Laboratory ID No. WI00034

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NLS Project: 315265

NLS Customer: 91089

Fax: 920 438 2804 PO#

1547401

Client: Georgia-Pacific Consumer Products LP

Analytical Laboratory and Environmental Services 400 North Lake Avenue - Crandon, WI 54520

Attn: Mike Moore 1919 South Broadway P O Box 19130

NORTHERN LAKE SERVICE, INC.

Ph: (715)-478-2777 Fax: (715)-478-3060

Green Bay, WI 54307 9130

Project: GBB Soil

TCLP 102	NLS ID:	1102924

COC: 224491:2 Matrix: EX

Collected: 01/29/19 12:45 Received: 01/29/19

Collected. 01/27/17 12.43   Neccived. 01/27/17								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	01/31/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	210	ug/L	10	12*	40*	01/31/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	[2.8]	ug/L	10	1.9	6.1	01/31/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	01/31/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	01/31/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.47	1.5	02/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	01/31/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	01/31/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					01/29/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					02/01/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					01/31/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					02/08/19	SW846 8270	721026460 RW

### 103 NLS ID: 1102925

COC: 224491:3 Matrix: SO

Collected: 01/24/19 14:00 Received: 01/25/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	82.9	%	1	0.10*		01/31/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					01/29/19	SW846 1311	721026460 JDO
TCLP Zero Head Space Extraction	yes					01/29/19	SW846 1311	721026460 JDO
Flashpoint	>140	Deg. F	1		*	02/05/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					02/14/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					01/30/19	SW846 3546	721026460 CSC

### TCLP 103 NLS ID: 1102926

COC: 224491:3 Matrix: EX

Collected: 01/30/19 12:00 Received: 01/30/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	01/31/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	450	ug/L	10	12*	40*	01/31/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	01/31/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	01/31/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	01/31/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.47	1.5	02/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	01/31/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	01/31/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					01/30/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					02/01/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					01/31/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					02/08/19	SW846 8270	721026460 RW

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

Georgia-Pacific Consumer Products LP Client:

Attn: Mike Moore 1919 South Broadway P O Box 19130

Green Bay, WI 54307 9130

WDNR Laboratory ID No. 721026460 **WDATCP Laboratory Certification No. 105-330** 

**EPA Laboratory ID No. WI00034** 

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> **NLS Project:** 315265

**NLS Customer:** 91089

PO# Fax: 920 438 2804

1547401

Project: **GBB Soil** 

104	NLS ID:	1102927
COC:	224491:4	Matrix: SO

Collected: 01/24/19 14:00 Received: 01/25/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	70.1	%	1	0.10*		01/31/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					01/29/19	SW846 1311	721026460 JDO
TCLP Zero Head Space Extraction	yes					01/29/19	SW846 1311	721026460 JDO
Flashpoint	>140	Deg. F	1		*	02/05/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					02/14/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					01/30/19	SW846 3546	721026460 CSC

TCLP 104 NLS ID: 1102928

COC: 224491:4 Matrix: EX

Collected: 01/30/19 12:30 Received: 01/30/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	01/31/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	330	ug/L	10	12*	40*	01/31/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	01/31/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	01/31/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	01/31/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.47	1.5	02/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	01/31/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	01/31/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					01/30/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					02/01/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					01/31/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					02/12/19	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.

NA = Not Applicable

ND = Not Detected (< LOD) DWB = Dry Weight Basis

LOD = Limit of Detection

MCL = Maximum Contaminant Levels for Drinking Water Samples.

%DWB = (mg/kg DWB) / 10000

LOQ = Limit of Quantitation

1000 ug/L = 1 mg/L

Shaded results indicate >MCL.

Reviewed by:

Authorized by: R. T. Krueger President

WDNR Laboratory ID No. 721026460 **WDATCP Laboratory Certification No. 105-330** 

**EPA Laboratory ID No. WI00034** 

Printed: 03/01/19 Page 1 of 1

> **NLS Project:** 315831

**NLS Customer:** 91089

PO# Fax: 920 438 2804

01547401

Georgia-Pacific Consumer Products LP Client:

**Analytical Laboratory and Environmental Services** 

400 North Lake Avenue - Crandon, WI 54520

Attn: Mike Moore 1919 South Broadway P O Box 19130

NORTHERN LAKE SERVICE. INC.

Ph: (715)-478-2777 Fax: (715)-478-3060

Green Bay, WI 54307 9130

GBB Soil (1) Project:

105	NLS ID:	1104367
COC:	224059:1	Matrix: SL

Collected: 02/05/19 16:30 Received: 02/11/19

0011CC1Cd. 02/03/17 10:30 1CCC1VCd. 02/11/17								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	81.8	%	1	0.10*		02/11/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					02/12/19	SW846 1311	721026460 JDO
TCLP Zero Head Space Extraction	yes					02/12/19	SW846 1311	721026460 JDO
Flashpoint	>140.0	Deg. F	1		*	02/14/19	EPA 1010	157066030 DMD
PCBs (solid) by SW846 8082	see attached					02/27/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					02/18/19	SW846 3546	721026460 EMT

TCLP 105 NLS ID: 1104368

COC: 224059:1 Matrix: EX

Collected: 02/13/19 12:20 Received: 02/13/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	02/14/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	370	ug/L	10	12*	40*	02/14/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	[2.1]	ug/L	10	1.9	6.1	02/14/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	02/14/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	02/14/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.47	1.5	02/23/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	02/14/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	02/14/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					02/13/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					02/15/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					02/15/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					02/22/19	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. NA = Not Applicable

ND = Not Detected (< LOD) DWB = Dry Weight Basis

LOD = Limit of Detection

%DWB = (mg/kg DWB) / 10000MCL = Maximum Contaminant Levels for Drinking Water Samples.

LOQ = Limit of Quantitation

1000 ug/L = 1 mg/L

Shaded results indicate >MCL.

Reviewed by:

Authorized by: R. T. Krueger President

ANALYTICAL RESULTS: PCBs by GC

Customer: Georgia-Pacific Consumer Products LP NLS Project: 315265 PO # 1547401

**Project Description: GBB Soil** 

Project Title: Template: PCBS Printed: 03/01/2019 17:32 Analyst: CSC

Sample: 1102921 101 Collected: 01/24/19 Analyzed: 02/27/19 - 87.7%	Solids Analytes: 8					Notes: HX
ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	25	79	
PCB-1221	ND	ug/Kg	5	57	190	
PCB-1232	ND	ug/Kg	5	32	110	
PCB-1242	490	ug/Kg	5	21	70	
PCB-1248	ND	ug/Kg	5	16	49	
PCB-1254	ND	ug/Kg	5	38	130	
PCB-1260	500	ug/Kg	5	31	98	
Total PCBs	990	ug/Kg	5	31	98	
TCMX (SURR)	56%		5			S

Page 1 of 2

#### 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 and sulfur cleanup by SW846 Method 3660 before analysis.

IV = Initial extract is 2.03 grams.

Sample: 1102923 102 Collected: 01/24/19 Analyzed: 0	02/14/19 - 81.6%Solids Analytes: 8					Notes: HX
ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	25	79	
PCB-1221	ND	ug/Kg	5	57	190	
PCB-1232	ND	ug/Kg	5	32	110	
PCB-1242	ND	ug/Kg	5	21	70	
PCB-1248	ND	ug/Kg	5	16	49	
PCB-1254	ND	ug/Kg	5	38	130	
PCB-1260	ND	ug/Kg	5	31	98	
Total PCBs	ND	ug/Kg	5	31	98	
TCMX (SURR)	62%		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 and sulfur cleanup by SW846 Method 3660 before analysis.

IV = Initial extract is 2.02 grams.

Sample: 1102925 103 Collected: 01/24/19 Analyzed: 02/14/19 -	82.9%Solids Analytes: 8					Notes: HX
ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	25	79	
PCB-1221	ND	ug/Kg	5	57	190	
PCB-1232	ND	ug/Kg	5	32	110	
PCB-1242	ND	ug/Kg	5	21	70	
PCB-1248	ND	ug/Kg	5	16	49	
PCB-1254	ND	ug/Kg	5	38	130	
PCB-1260	ND	ug/Kg	5	31	98	
Total PCBs	ND	ug/Kg	5	31	98	
TCMX (SURR)	54%		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 and sulfur cleanup by SW846 Method 3660 before analysis.

FV = Final extract is 2.04 grams.

ANALYTICAL RESULTS: PCBs by GC Page 2 of 2

Customer: Georgia-Pacific Consumer Products LP NLS Project: 315265 PO # 1547401

**Project Description: GBB Soil** 

Project Title: Template: PCBS Printed: 03/01/2019 17:32 Analyst: CSC

Sample: 1102927 104 Collected: 01/24/19 Analyzed: 02/14/19 - 70.1%Sol	ids Analytes: 8					Notes: HX
ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	25	79	
PCB-1221	ND	ug/Kg	5	57	190	
PCB-1232	ND	ug/Kg	5	32	110	
PCB-1242	ND	ug/Kg	5	21	70	
PCB-1248	ND	ug/Kg	5	16	49	
PCB-1254	ND	ug/Kg	5	38	130	
PCB-1260	ND	ug/Kg	5	31	98	
Total PCBs	ND	ug/Kg	5	31	98	
TCMX (SURR)	68%		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 and sulfur cleanup by SW846 Method 3660 before analysis.

IV = Initial extract is 2.05 grams.

ANALYTICAL RESULTS: PCBs by GC Page 1 of 1

Customer: Georgia-Pacific Consumer Products LP NLS Project: 315831 PO # 01547401

**Project Description: GBB Soil (1)** 

Project Title: Template: PCBS Printed: 03/01/2019 17:29 Analyst: CSC

Sample: 1104367 105 Collected: 02/05/19 Analyzed: 02/27/19 - 81.8%Sol	ids Analytes: 8					Notes: HX
ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	25	79	
PCB-1221	ND	ug/Kg	5	57	190	
PCB-1232	ND	ug/Kg	5	32	110	
PCB-1242	ND	ug/Kg	5	21	70	
PCB-1248	ND	ug/Kg	5	16	49	
PCB-1254	ND	ug/Kg	5	38	130	
PCB-1260	ND	ug/Kg	5	31	98	
Total PCBs	ND	ug/Kg	5	31	98	
TCMX (SURR)	50%		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 and sulfur cleanup by SW846 Method 3660 before analysis.

IV = Initial extract is 2.11 grams.

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

Customer: Georgia-Pacific Consumer Products LP NLS Project: 315265 PO # 1547401

**Project Description: GBB Soil** 

Project Title: Template: SATTCLP Printed: 03/01/2019 17:32 Analyst: JLG

Sample: 1102922 TCLP 101 Collected: 01/29/19 Analyzed: 02/0	01/19 - 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	[1.8]	ug/L	1	0.57	2.0	J
Dibromofluoromethane (SURR)	114%	_	1			S
Toluene-d8 (SURR)	106%		1			S
1-Bromo-4-Fluorobenzene (SURR)	103%		1			S

#### NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

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

Sample: 1102924 TCLP 102 Collected: 01/29/19 Analyzed: 02/01/19	- 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	2.5	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	112%		1			S
Toluene-d8 (SURR)	119%		1			S
1-Bromo-4-Fluorobenzene (SURR)	107%		1			S

#### **NOTES APPLICABLE TO THIS ANALYSIS:**

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

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

Customer: Georgia-Pacific Consumer Products LP NLS Project: 315265 PO # 1547401

**Project Description: GBB Soil** 

Project Title: Template: SATTCLP Printed: 03/01/2019 17:32 Analyst: JLG

Sample: 1102926 TCLP 103 Collected: 01/30/19 Analy	zed: 02/01/19 - Analytes: 11					
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	4.4	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	[1.5]	ug/L	1	0.57	2.0	J
Dibromofluoromethane (SURR)	114%		1			S
Toluene-d8 (SURR)	118%		1			S
1-Bromo-4-Fluorobenzene (SURR)	101%		1			S

#### NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

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

Sample: 1102928 TCLP 104 Collected: 01/30/19 Analyzed: 02/01/1	9 - Analytes: 11					
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	[0.55]	ug/L	1	0.24	0.84	J
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	[0.67]	ug/L	1	0.57	2.0	J
Dibromofluoromethane (SURR)	110%		1			S
Toluene-d8 (SURR)	104%		1			S
1-Bromo-4-Fluorobenzene (SURR)	102%		1			S

#### **NOTES APPLICABLE TO THIS ANALYSIS:**

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

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

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

Customer: Georgia-Pacific Consumer Products LP NLS Project: 315831 PO # 01547401

Page 1 of 1

**Project Description: GBB Soil (1)** 

Project Title: Template: SATTCLP Printed: 03/01/2019 17:29 Analyst: JLG

Sample: 1104368 TCLP 105 Collected: 02/13/19 Analyzed: 02/15/1						
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	[0.50]	ug/L	1	0.24	0.84	J
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	[0.59]	ug/L	1	0.57	2.0	J
Dibromofluoromethane (SURR)	100%	•	1		•	S
Toluene-d8 (SURR)	113%	•	1		•	S
1-Bromo-4-Fluorobenzene (SURR)	96%	•	1		•	S

#### **NOTES APPLICABLE TO THIS ANALYSIS:**

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

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: 315265 PO # 1547401

**Project Description: GBB Soil** 

Project Title: Template: SVTCLP Printed: 03/01/2019 17:32 Analyst: RW

Sample: 1102922 TCLP 101 Collected: 01/29/19 Analyzed: 02/08/19	- 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)	57%		1			S
Phenol-d5 (SURR)	45%		1			S
Nitrobenzene-d5 (SURR)	86%		1			S
2-Fluorobiphenyl (SURR)	82%	•	1		•	S
2,4,6-Tribromophenol (SURR)	86%	•	1		•	S
Terphenyl-d14 (SURR)	83%		1			S

#### **NOTES APPLICABLE TO THIS ANALYSIS:**

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

Sample: 1102924 TCLP 102 Collected: 01/29/19 Analyzed: 02/08/19						
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)	58%		1			S
Phenol-d5 (SURR)	39%		1			S
Nitrobenzene-d5 (SURR)	92%		1	•	•	S
2-Fluorobiphenyl (SURR)	85%		1	•	•	S
2,4,6-Tribromophenol (SURR)	88%		1	•	•	S
Terphenyl-d14 (SURR)	81%		1	•	•	S

#### NOTES APPLICABLE TO THIS ANALYSIS:

Page 1 of 2

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: 315265 PO # 1547401

**Project Description: GBB Soil** 

Project Title: Template: SVTCLP Printed: 03/01/2019 17:32 Analyst: RW

Sample: 1102926 TCLP 103 Collected: 01/30/19 Analyzed: 02/08/19 -						
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)	57%		1			S
Phenol-d5 (SURR)	39%		1			S
Nitrobenzene-d5 (SURR)	94%		1			S
2-Fluorobiphenyl (SURR)	90%	•	1		•	S
2,4,6-Tribromophenol (SURR)	91%		1			S
Terphenyl-d14 (SURR)	82%		1			S

#### **NOTES APPLICABLE TO THIS ANALYSIS:**

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

Sample: 1102928 TCLP 104 Collected: 01/30/19 Analyzed: 02/12/1						
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)	52%		1			S
Phenol-d5 (SURR)	35%		1			S
Nitrobenzene-d5 (SURR)	89%		1	•	•	S
2-Fluorobiphenyl (SURR)	78%		1	•	•	S
2,4,6-Tribromophenol (SURR)	85%		1	•	•	S
Terphenyl-d14 (SURR)	79%		1	•	•	S

#### NOTES APPLICABLE TO THIS ANALYSIS:

Page 2 of 2

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

NLS Project: 315831 PO # 01547401

Customer: Georgia-Pacific Consumer Products LP Project Description: GBB Soil (1)

Project Title: Template: SVTCLP Printed: 03/01/2019 17:29 Analyst: RW

Sample: 1104368 TCLP 105 Collected: 02/13/19 Analyzed: 02/22/19						
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)	55%		1			S
Phenol-d5 (SURR)	36%		1			S
Nitrobenzene-d5 (SURR)	91%	•	1		•	S
2-Fluorobiphenyl (SURR)	83%	•	1		•	S
2,4,6-Tribromophenol (SURR)	86%	•	1		•	S
Terphenyl-d14 (SURR)	56%		1			S

#### NOTES APPLICABLE TO THIS ANALYSIS:

Page 1 of 1

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