


Lauridsen, Keld B - DNR

From: Krause, Caitlin <ckrause@geiconsultants.com>
Sent: Tuesday, April 7, 2020 9:50 AM
To: Lauridsen, Keld B - DNR
Cc: Miller, Roger; POMERVILLE, JACQUELYN
Subject: RE: Boiler 6 Data Table
Attachments: Data_Analysis_Summary_TCLP-Total Metals_revised 04-06-2020.pdf

Good morning Keld,

Please see the revised data table for Georgia-Pacific Boiler 6. Let us know if you have any questions.

Thank you,

 CAITLIN KRAUSE
Staff Professional
920.471.0890 cell: 920.323.7683 fax: 920.455.8225
3159 Voyager Drive, Green Bay, WI 54311



From: Miller, Roger <rmiller@geiconsultants.com>
Sent: Monday, April 6, 2020 4:20 PM
To: POMERVILLE, JACQUELYN <JACQUELYN.POMERVILLE@GAPAC.COM>
Cc: Krause, Caitlin <ckrause@geiconsultants.com>
Subject: Boiler 6 Data Table

Hi Jacquelyn,

Keld Lauridsen just called and appreciated the revised figure for the Boiler 6 excavation areas. He asked that our data table be revised to include results of other parameters tested that were non-detect—i.e., the PCB, TCLP VOC and TCLP SVOC tests run on original Samples 1 through 6. We could indicate these results on the table by adding rows for these tests and indicating “ND.” We would not need to expand the table to show all parameters and their individual detection limits.

Please let us know if you would like to see the revised data table before we send it to Keld. He is preparing the NFA letter now.

Thank you,


 ROGER A. MILLER, P.G., C.P.G.
Senior Hydrogeologist
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Table 1.
Soil Analytical Summary
Broadway Mill Boiler 6 Environmental Assessment
Project No. 1904576

CAS #	Federal Regulatory Standards ³	Wisconsin Regulatory Standards ^{1,2}					Location	Sample 1	Sample 2	2R	2R	Sample 3	Sample 4	Sample 5	Sample 6	A	C	G	G	
		TCLP	BTV	Non-Industrial DC	Industrial DC	GW	Date	6/14/19	6/14/19	9/23/19	9/23/19	6/14/19	6/14/19	6/14/19	6/14/19	9/23/19	9/23/19	9/23/19	9/23/19	
							Depth (ft)	2-3	2-3	3-4	10-12	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3
TOTAL METALS (detected analytes)⁴ (mg/kg)							% Solids	92.5	91.6	88.6	83.6	89.5	87.0	87.6	76.8	92.1	90.3	88.5	82.6	
Barium	7440-39-3	NA	364	15,300	100,000	164.8	--	13	--	--	--	--	--	--	--	--	--	--	--	
Cadmium	7440-43-9	NA	1	71	985	0.752	--	0.089	--	--	--	--	--	--	--	--	--	--	--	
Chromium ⁵	16065-83-1/18540-29-9	NA	NE	100,000/0.301	100,000/6.36	360,000 ⁶	--	7.0	--	--	--	--	--	--	--	--	--	--	--	
Lead	7439-92-1	NA	52	400	800	27	--	640*	2.9	4.8	--	--	4.6	--	1.2	20	1.1	4.9		
TCLP METALS (detected analytes)⁴ (mg/L)																				
Barium	7440-39-3	100.0	NA	NA	NA	NA	0.18	0.23	--	--	0.21	0.25	0.28	0.68	--	--	--	--		
Cadmium	7440-43-9	1.0	NA	NA	NA	NA	ND	ND	--	--	ND	ND	0.0034	ND	--	--	--	--		
Lead	7439-92-1	5.0	NA	NA	NA	NA	ND	6.4 [^]	ND	--	ND	0.044	ND	2.0	ND	ND	ND	--		
PCBs (µg/kg)																				
TCLP VOCs (µg/L)																				
TCLP SVOCs (µg/L)																				

Notes
(mg/kg) = milligrams per kilogram; (µg/kg) = micrograms per kilogram; (µg/L) = micrograms per liter; -- = not analyzed; DC = Direct Contact; GW = Groundwater; TCLP = Toxicity Characteristic Leaching Procedure;
< = not detected above method detection limit; J = concentration between detection limit and reporting limit; BTV = Background Threshold Value; NA = Not Applicable; ND = Non Detect; NE = Not Established
¹NR 720 RCL = Chapter NR 720, Wisconsin Administrative Code, Residual Contaminant Level
²RCLs & BTVs are based on USEPA methodology; presented in WDNr Guidance, Soil RCL Determinations using USEPA Regional Screening Level Web Calculator (RR-890) and summarized in the WDNr's R&R Program RCE Spreadsheet (December 2018).
³TCLP Regulatory Standard = EPA regulation referenced in Chapter NR 661, Wisconsin Administrative Code, Hazardous Waste Identification and Listing
⁴Only detected analytes are listed; refer to the laboratory analytical report for a full list of assessed analytes.
⁵RCLs for chromium reported as Chromium III/Chromium VI; based on property history, it is anticipated that chromium detected on the Property is Chromium III, and as such, sample result was not considered an exceedence of the RCL.
⁶GW Pathway RCL for Chromium III only.

Exceeds the NR 720 Non-Industrial Direct Contact RCL: **100** Exceeds the NR 720 Industrial Direct Contact RCL: **100** Exceeds the NR 720 Groundwater Pathway RCL: **100** Exceeds the BTV: **100*** Exceeds the TCLP Limit: **100^**


Lauridsen, Keld B - DNR

From: Krause, Caitlin <ckrause@geiconsultants.com>
Sent: Monday, April 6, 2020 10:59 AM
To: Lauridsen, Keld B - DNR
Cc: Miller, Roger; POMERVILLE, JACQUELYN; Mrotek, Melissa (GBY)
Subject: RE: Boiler 6 site
Attachments: Figure 3 - Sample Locations - Boiler 6 Area_updated 04-06-2020_rev2.pdf

Good morning Keld,

Please see the revised Figure 3 associated with the Georgia-Pacific Boiler 6 NFA Request. Let us know if you have any questions.


Thank you,

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From: Miller, Roger <rmiller@geiconsultants.com>
Sent: Friday, April 3, 2020 4:32 PM
To: Krause, Caitlin <ckrause@geiconsultants.com>
Subject: FW: Boiler 6 site

Caitlin – we will also want to note on revised Figure 3 that outer ring samples B, E, and H were not analyzed because inner ring samples were sufficient to define the soil lead removal zone.

 ROGER A. MILLER, P.G., C.P.G.
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From: Lauridsen, Keld B - DNR <Keld.Lauridsen@wisconsin.gov>
Sent: Friday, April 3, 2020 4:23 PM
To: Miller, Roger <rmiller@geiconsultants.com>
Subject: [EXT] Boiler 6 site

Roger,

When you send me the email with the revised map, can you also mention that the “outer ring” soil samples were not analyzed.

Have a great weekend.

-Keld

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

Keld B. Lauridsen

Hydrogeologist – Remediation & Redevelopment Program

Wisconsin Department of Natural Resources

2984 Shawano Avenue

Green Bay, WI 54313

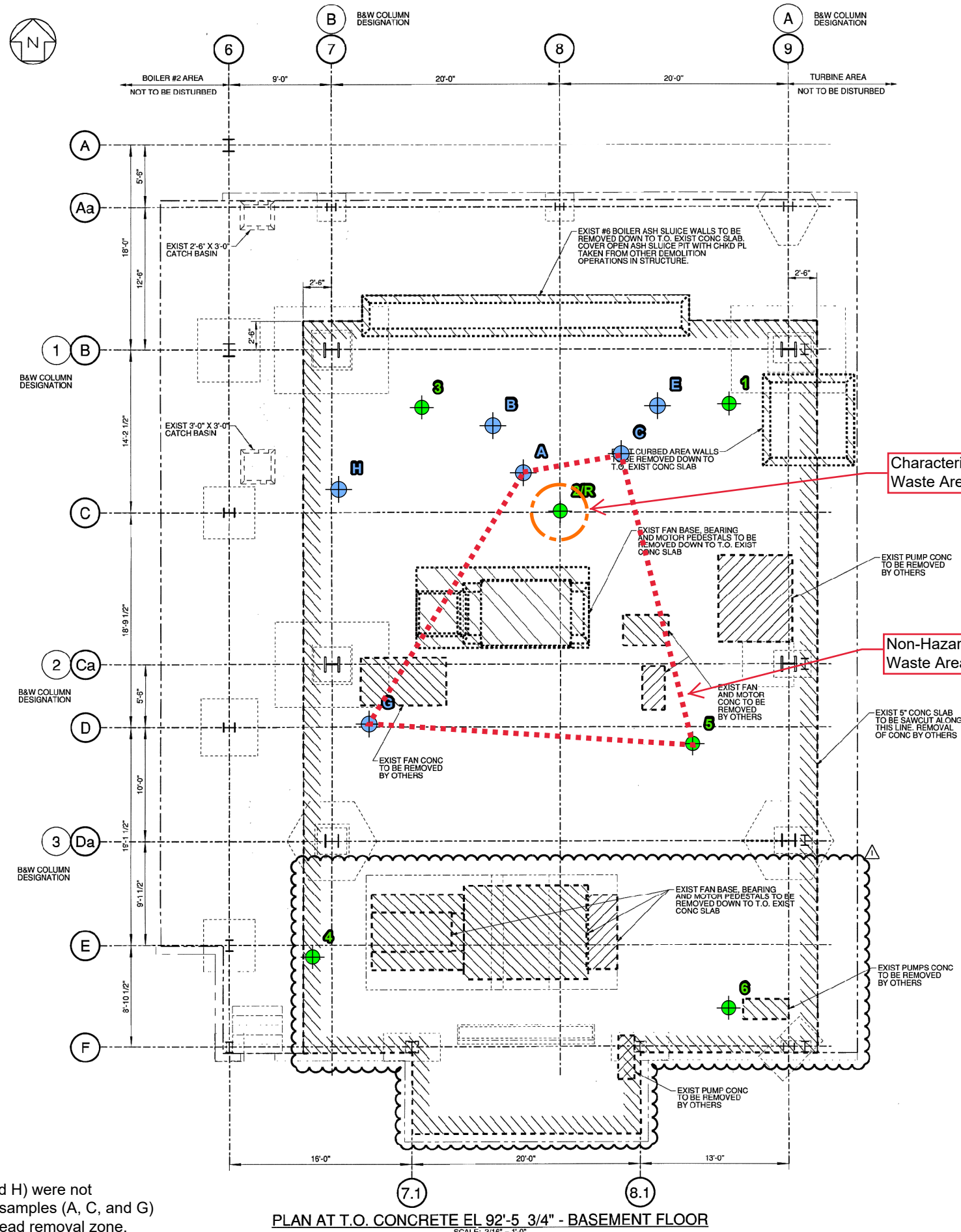
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Legend

- Sample Locations (June 14, 2019)
- Sample Locations (September 23, 2019)
- Non-Hazardous Solid Waste Area (excavated to depths of 3 to 4 feet)
- Characteristic Hazardous Waste Area (excavated to depths of 3 to 4 feet)

Note:
The outer ring samples (B, E, and H) were not analyzed because the inner ring samples (A, C, and G) were sufficient to define the soil lead removal zone.

PLAN AT T.O. CONCRETE EL 92'-5 3/4" - BASEMENT FLOOR
SCALE: 3/16" = 1'-0"

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

Drawn: TJF	4/6/2020
Approved: RAM	4/6/2020
Scale: AS SHOWN	
Project Number: 1904576	
Figure Number: 3	

K:\Georgia-Pacific\Broadway Mill\2019 Proposals\Boiler 6 Env\GIS\Figure 3 - Sample Locations_4-2020.mxd