



Stantec Consulting Services Inc.
12075 Corporate Parkway, Suite 200 Mequon WI 53092

March 10, 2017
File: 193703931

Attention: Nicolas Sparacio, AICP
Community Development Director
City of Manitowoc
900 Quay Street
Manitowoc, WI 54220-4543

Dear Mr. Sparacio:

Reference: Addendum to the Waste Characterization of Demolition Debris Report
1512 Washington Street Manitowoc, Wisconsin
USEPA Cooperative Agreement No. BF-00E01529-0
Stantec Project No. 193703931

Dear Mr. Sparacio:

On behalf of the City of Manitowoc, Stantec Consulting Services (Stantec) has prepared this addendum letter to the Stantec (2017) *Waste Characterization of Demolition Debris* report dated February 15, 2017 for the property located at 1512 Washington Street in the City of Manitowoc, Wisconsin (herein referred to as the Site).

Table 1 in the Stantec (2017) report included sample B14-LD-W and sample B27-LD-W. The concentrations of polychlorinated biphenyls in these samples are 43 and 8.1 milligrams per kilogram, respectively, which is less than the Toxic Substance Control Act (TSCA) threshold of 50 milligrams per kilogram. However, in discussing further with the landfill and planning for abatement, as originally illustrated on Figure 5 of the Stantec (2017) report, removal of wood flooring from these two sample locations is likely to occur concurrent with removal of surrounding TSCA-level impacted wood flooring. Therefore, for waste profile and abatement planning purposes, these samples are not considered representative of demolition debris to be sent to the Waste Management solid waste landfill. To prevent confusion, these samples have been removed from Table 1 (see attached).

We also identified a small GIS error illustrating sample locations B10 and B20 on Figure 4. The error is resolved and the revised figure is attached.

I trust this information meets your needs. Please feel free to contact me at 414-581-6476 if you have any questions or concerns.

Regards,

STANTEC CONSULTING SERVICES INC.

A handwritten signature in blue ink that reads "Harris L. Byers".

Harris L. Byers
Brownfields Project Manager
Harris.Byers@stantec.com

Table 1 Rev
PCB Concentrations in Porous Building Materials in Area 8, Area 14, and the Loading Dock
1512 Washington Street
Manitowoc, Wisconsin

Sample Location Details				Sample Information			PCBs Concentrations (ug/kg; Method 8082A)									
							PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260			
Area	Building	Floor	Substrate	Sample Date	Time	Sample Name	50,000 (Combined) ¹									
Loading Dock	North	Ground	Wood	11/22/2016	2:35	B17-LD-W	<350	<440	<430	<330	<390	<220	3,800			
				12/6/2016	11:40	B22-LD-W	<340	<420	<420	<320	<380	<210	3,800			
				12/6/2016	11:35	B23-LD-W	<350	<440	<430	<330	<390	<210	1,800			
				12/6/2016	11:45	B24-LD-W	<350	<430	<430	<320	<390	<210	8,600			
				12/6/2016	11:55	B25-LD-W	<350	<440	<430	<330	<390	<220	6,400			
				12/6/2016	11:50	B26-LD-W	<350	<430	<430	<320	<390	<210	11,000			
				12/6/2016	12:10	B31-LD-W	<340	<430	<420	<320	<380	<210	2,100			
				12/6/2016	12:15	B32-LD-W	<340	<430	<420	<320	<380	<210	4,300			
				12/6/2016	12:20	B33-LD-W	<350	<440	<440	<330	<390	<220	630 J			
						Concrete Column 6" from Floor	12/6/2016	1:40	B36-LD-C West Column-W	<340	<420	<420	<320	<380	<210	4,600
				12/6/2016	1:45	B37-LD-C West Column-W	<310	<390	<390	<290	<350	<190	2,800			
Area 8	South	Ground	Wood	11/10/2016	11:15	B7-A8-W	<87	<110	<110	<81	<97	<53	320			
				11/10/2016	11:20	B8-A8-W	<86	<110	<110	<80	<96	<53	130			
				11/22/2016	11:20	B17-A8-W	<330	<410	<410	<310	<370	<200	2,400			
				11/22/2016	11:25	B18-A8-W	<350	<440	<430	<330	<390	<210	4,500			
				11/22/2016	11:05	B20-A8-W	<350	<430	<430	<320	<380	<210	1,700			
				11/22/2016	11:10	B21-A8-W	<340	<420	<420	<320	<380	<210	6,000			
				12/6/2016	8:15	B27-A8-W	<350	<440	<440	<330	<390	<220	8,300			
				12/6/2016	8:20	B28-A8-W	<350	<440	<430	<330	<390	<220	5,100			
				12/6/2016	8:25	B29-A8-W	<340	<430	<420	<320	<380	<210	5,800			
				12/6/2016	8:35	B30-A8-W	<350	<430	<430	<320	<390	<210	2,400			
				12/6/2016	8:30	B31-A8-W	<350	<440	<440	<330	<390	<220	1,800			
							Concrete Column 6" from Floor	11/22/2016	1:00	A8-COLUMN-1 (6")	<310	<380	<380	<290	<340	<190
							11/22/2016	12:50	A8-COLUMN-2 (6")	<330	<410	<410	<310	<370	<200	6,200
Area 14	North	2nd	Wood	11/22/2016	9:05	B10-A14-W	<3,500	<4,300	<4,300	<3,200	<3,900	<2,100	23,000			
				11/22/2016	9:10	B11-A14-W	<330	<420	<410	<310	<370	<200	11,000			
				11/22/2016	9:15	B12-A14-W	<340	<430	<420	<320	<380	<210	4,400			
				11/22/2016	9:20	B13-A14-W	<18	<22	<22	<16	<20	<22	410			
				11/22/2016	9:25	B14-A14-W	<18	<22	<22	<16	<20	<11	740			
				11/22/2016	9:35	B15-A14-W	<350	<430	<430	<320	<390	<210	3,700			
				11/22/2016	9:30	B16-A14-W	<18	<22	<22	<16	<20	<11	810			
				11/22/2016	9:40	B17-A14-W	<16	<20	<20	<15	<18	<9.9	460			
				11/22/2016	9:50	B18-A14-W	<340	<420	<420	<320	<380	<210	700 J			
				11/22/2016	9:45	B19-A14-W	<17	<22	<22	<16	<19	<11	520			
				12/6/2016	9:10	B20-A14-W	<350	<440	<440	<330	<390	<220	2,000			
				12/6/2016	9:15	B21-A14-W	<350	<430	<430	<320	<390	<210	11,000			
				12/6/2016	9:20	B22-A14-W	<320	<400	<390	<300	<360	<190	1,300			
							Brick Wall 6" from floor	11/22/2016	10:00	A14-WALL-D-1 (6")	<17	<21	<21	<16	<19	<10
							11/22/2016	9:55	A14-WALL-D-2 (6")	<17	<21	<21	<16	<19	<10	160

Notes:

PCB = Polychlorinated Biphenyl

ug/kg = microgram per kilogram

(8082) = Laboratory analytical method (SW-846)

¹ Cleanup action levels for PCBs in WDNR Publication RR-786 is 50 mg/kg

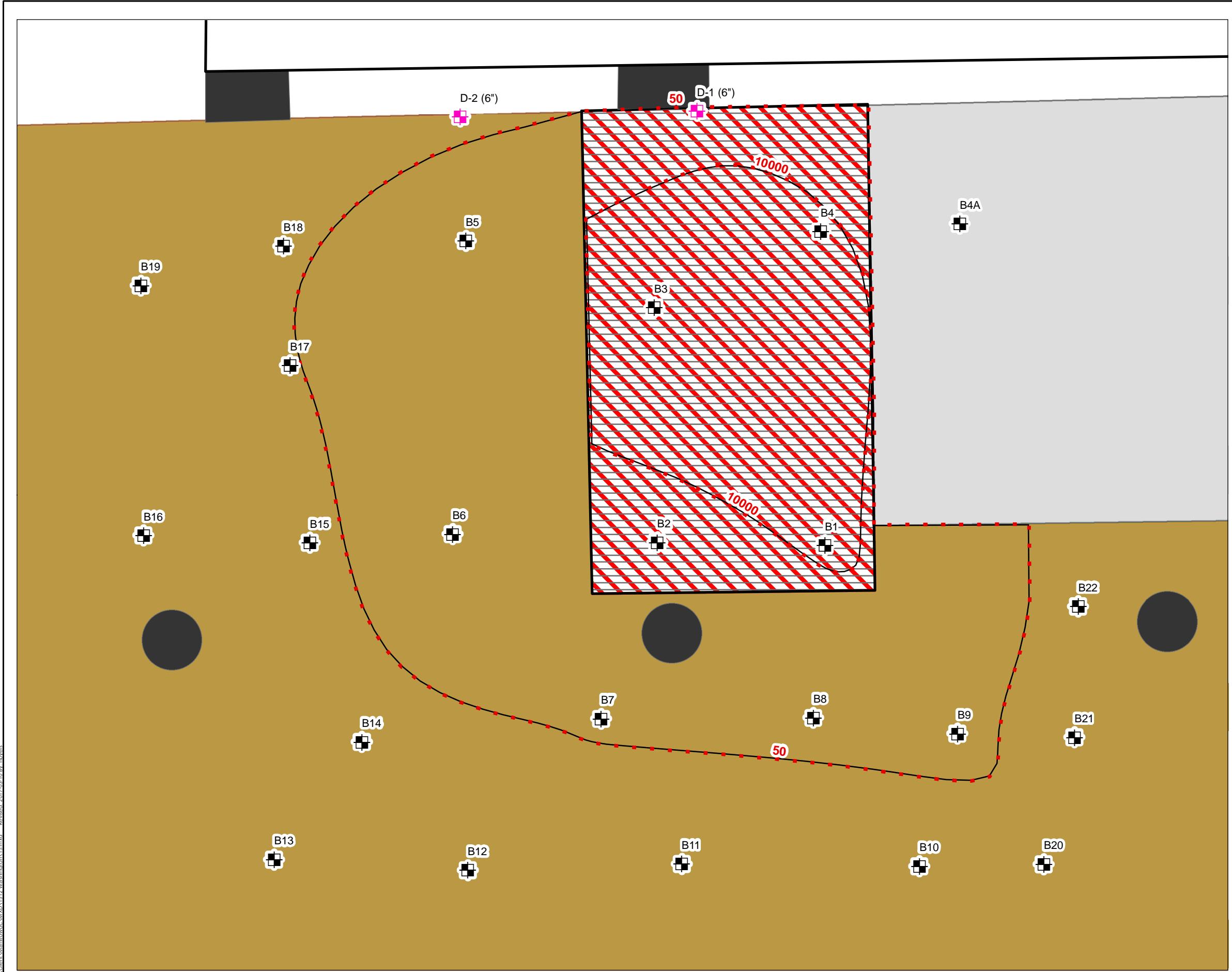


Figure No.
4 Rev

Title
Figure 4. Building Material Sample Locations in Area 14

Client/Project
 City of Manitowoc
 USEPA Brownfield Assessment Grant
 Hazardous Substances

Project Location
 T19N, R24E, S30
 C. of Manitowoc,
 Manitowoc Co., WI

193703931
 Prepared by HLB on 2017-03-10

Legend

Building Material Sample Locations

- ⊠ Floor Sample
- ⊠ Wall Sample
- - - PCB Concentrations (PPM)
- Exterior Building Wall

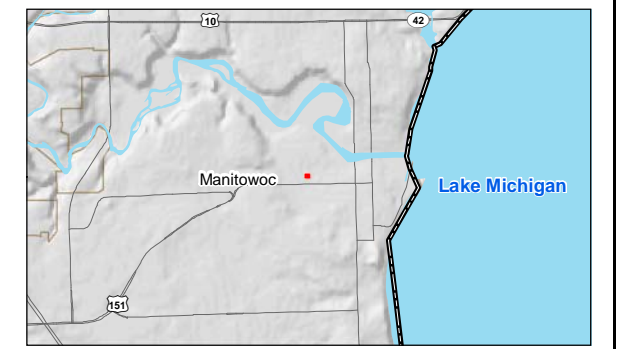
Area Features

- Concrete Column
- ▨ Transformer Slab

Flooring Type

- Concrete
- Wood

0 5 10 Feet



Notes

1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, NADS
3. Orthophotography: 2015 NAIP

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