December 12, 2018

Margaret Brunette
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Dr.
Milwaukee, WI 53213
Margaret.brunette@wisconsin.gov

RE: Groundwater Sampling Report and No Further Action Request
Burnham Canal, Milwaukee, WI
BRRTS# 02-41-552940

Dear Ms. Brunette:

On behalf of Miller Compressing Company (Miller), O'Brien & Gere Engineers, Inc. (OBG, formerly NRT) is submitting this Groundwater Sampling Report (Report) for the Burnham Canal Site (Site) located in Milwaukee, WI (Figure 1).

The Site consists of Miller's former wire reclamation furnace area and a portion of the Canal from the western terminus to the 11th Street Bridge. Miller controls the site through ownership and comprehensive remediation easements. Regional groundwater flow is towards Lake Michigan (i.e., west to east) and varies locally as influenced by utilities and the Canal system. The upland area of the Site mildly slopes towards the Canal. Per the October 27, 2017 Groundwater Sampling Work Plan for the Site (Work Plan), which incorporated comments received from the Wisconsin Department of Natural Resources (WDNR), the groundwater sampling conducted at the Site characterized groundwater quality downgradient of the area of discharge at the west end of the Canal (Figure 2).

Site investigation information required by Wisconsin Administrative Code Chapter NR 716 (NR 716) was previously documented in the Remedial Investigation (RI) Report (NRT, 2010), Preliminary Design Report (NRT, 2012), and Final Design Report (NRT, 2016). The groundwater sampling discussed in this Report supplements the prior work, and is submitted to fulfill the requirements of NR 716, as directed by WDNR.

MONITORING WELL INSTALLATION

OBG directed and documented the installation of three groundwater monitoring wells (MW-1 through MW-3), at the approximate locations shown in the approved Work Plan and shown on Figure 2, on October 27, 2017. To facilitate monitoring well construction, borings were advanced, using hollow stem auger drilling methods, to depths of approximately 15 feet below ground surface (bgs) by On-site Environmental Services, Inc. of Sun Prairie, Wisconsin. Monitoring wells were constructed in accordance with Wisconsin Administrative Code Chapter NR 141 requirements and were screened from approximately five to 15 feet bgs. Soil boring logs and monitoring well construction forms are included in Attachments 1 and 2, respectively. The monitoring wells were developed on October 30, 2017 and monitoring well development forms are included in Attachment 3.

GROUNDWATER QUALITY SAMPLING

Per the approved Work Plan, the purpose of monitoring well sampling is to establish the presence or absence of contaminants in groundwater that may be associated with prior releases from the former wire reclamation operations. Based on the characteristics of the discharge, the agreed to sampling focused on specific contaminants of concern. These contaminants include dissolved copper, dissolved lead, and polycyclic aromatic hydrocarbons (PAHs).

In accordance with the approved Work Plan, the first groundwater sampling event was conducted on November 9, 2017, at least 10 days after well development. Well coordinates and top of casing (TOC) well elevations were surveyed with a real-time kinematic (RTK) global positioning system (GPS). Water levels were measured with an electronic water level indicator and then sampled using low-flow sampling methods. The canal water level was also surveyed at approximately the same time as groundwater samples were collected from the monitoring wells. Field equipment was calibrated prior to use and quality assurance/quality control samples were collected during each sampling event.

Groundwater samples were submitted for laboratory analysis of dissolved copper and dissolved lead, in accordance with Environmental Protection Agency (EPA) Method SW-846 6020, as well as PAHs in accordance with EPA Method SW-846 8270, at TestAmerica In University Park, IL (WDNR Certification No. 999580010). Analytical results are included in Attachment 4 and summarized in Table 1. Groundwater and canal water surface elevations are also included in Table 1. Concentrations detected in the samples collected from monitoring wells MW-1 through MW-3 on November 9, 2017 were all less than applicable Wisconsin standards (Wisconsin Administrative Code Chapter NR 140 Preventative Action Limits [PALs] and Enforcement Standards [ESs]). In accordance with NR 716, these results were transmitted to WDNR within 10 days of receipt of the final laboratory report.

In accordance with the approved Work Plan, the second round of sampling was conducted on December 11, 2017, at least 30 days after the first groundwater sampling event. The second sampling round was conducted using the same procedures as the first sampling round, as described above. Analytical results are included in Attachment 4 and summarized in Table 1. Groundwater and canal water surface elevations are also included in Table 1. Concentrations detected in the samples collected from monitoring wells MW-1 through MW-3 on December 11, 2017 were all less than NR 140 PALs and ESs. In accordance with NR 716, these results were transmitted to WDNR within 10 days of receipt of the final laboratory report.

GROUNDWATER SUMMARY AND MONITORING WELL ABANDONMENT AND TECHNICAL SUPPORT LETTER REQUEST (NFA REQUEST)

Per the approved Work Plan, the intent of the groundwater sampling conducted at the Site was to evaluate groundwater quality within close proximity and downgradient of the area of discharge at the west end of the Canal. No evidence of groundwater contamination was found associated with prior releases of contaminants of concern (dissolved copper, dissolved lead, and PAHs) from the former wire reclamation operations. As such, on behalf of Miller, OBG is requesting WDNR approval to abandon all three on-site groundwater monitoring wells. Following abandonment, WDNR Form 3300-005 will be completed for each well and submitted to the Department. OBG will also coordinate the pickup and disposal of investigative waste (soil cuttings and purge water) that is currently being stored on site.

Additionally, on behalf of Miller, OBG is requesting a Technical Support Letter from WDNR stating that the groundwater is not a pathway of concern with respect to the discharges at the west end of the Burnham Canal from the wire reclamation operation. OBG is also requesting that the letter state that investigation conducted at

the Site meets WDNR closure criteria for Bureau of Remediation and Redevelopment Tracking System (BRRTS) case No. 02-41-552940 with respect to groundwater, and that no further groundwater investigation or remediation associated with the Site is necessary. As such, WDNR Form 4400-237, requesting a No Further Action Letter (NFA) for this BRRTS case, is included in Attachment 5. It is important to the stakeholders responsible for addressing environmental matters associated with Miller's former wire reclamation operations to receive WDNR's technical determination that no further action related to the groundwater at the Site is required.

If you have any questions regarding this project or report, please contact either of us at 414-837-3607.

Sincerely,
O'BRIEN & GERE ENGINEERS, INC.

Mark D. Walter, PE
Senior Engineer

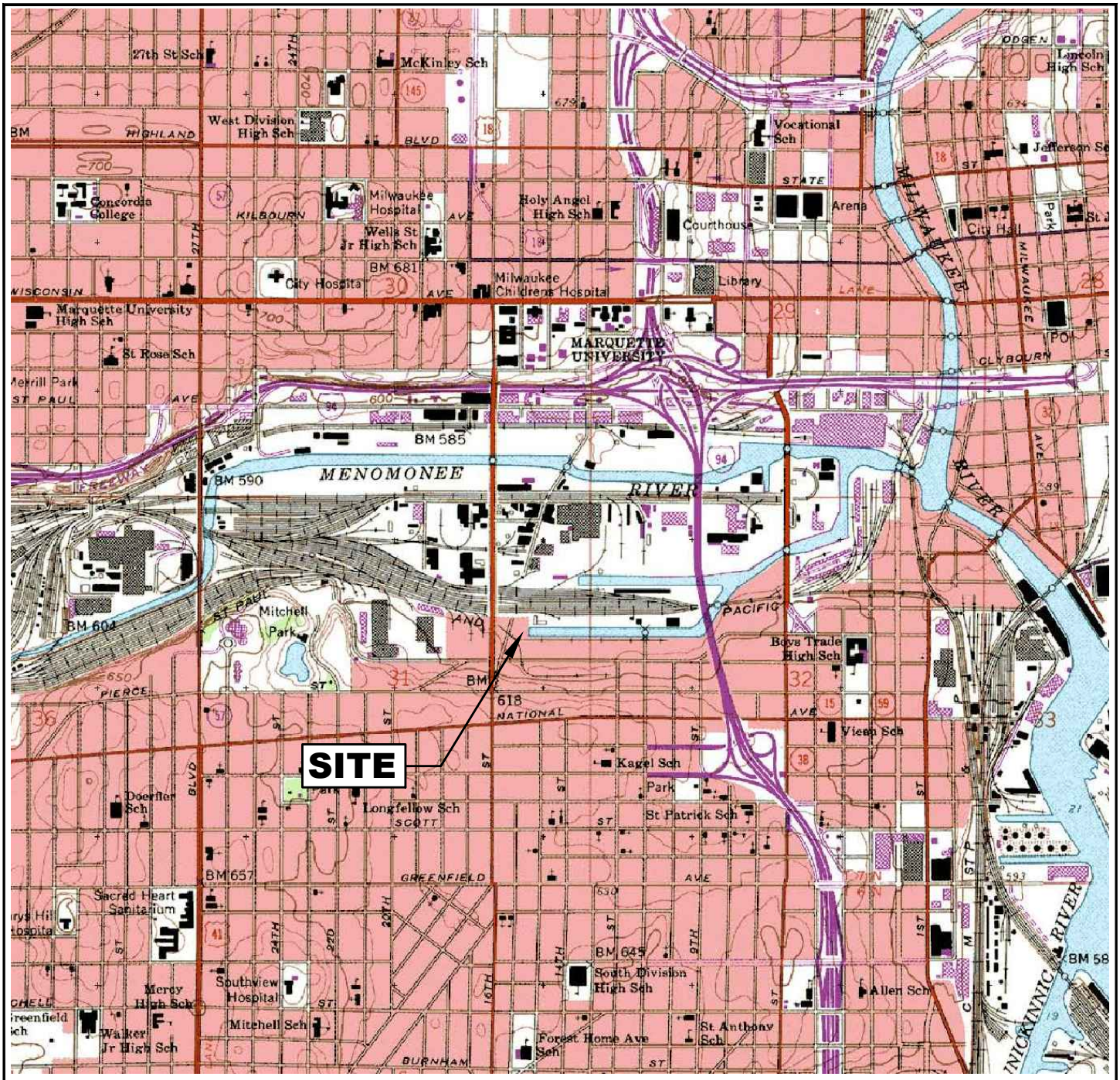
Laurie L. Parsons, PE, PH
Senior Vice President

I, Laurie Parsons, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

_____ 12/12/18_____
Signature and title Date

Attachments:
Figure 1 – Site Location
Figure 2 – Approximate Monitoring Well Locations
Table 1 – Groundwater Analytical Summary Table
Attachment 1 – Soil Boring Logs
Attachment 2 – Monitoring Well Construction Forms
Attachment 3 – Monitoring Well Development Forms
Attachment 4 – Laboratory Analytical Reports
Attachment 5 – WDNR Form 4400-237 Technical Assistance Request

Figures



SOURCE: EARTHVISIONS U.S. TERRAIN SERIES, © EARTHVISIONS, INC. 603-433-8500. USGS 7.5 MINUTE QUADRANGLE, MILWAUKEE. DATED 1958. PHOTOREVISED 1971.

QUADRANGLE LOCATION

N

0 2000 4000

SCALE IN FEET

CONTOUR INTERVAL 10 FEET

SITE LOCATION MAP

NATURAL RESOURCE TECHNOLOGY

BURNHAM CANAL
GROUNDWATER SAMPLING WORK PLAN
MILLER COMPRESSING COMPANY
MILWAUKEE, WISCONSIN

DRAWN: AMM DATE: 05/08/17 CHK'D: KJB DATE: 05/09/17 APP'D: AMM DATE: 05/09/17

PROJECT NO. 2117/8.1

DRAWING NO. 2117-8.1-A01

FIGURE NO. 1

DRAWN BY/DATE:
TDC 10/17/17
REVIEWED BY/DATE:
MDW 10/17/17
APPROVED BY/DATE:
MDW 10/18/17

PROPOSED SCREENING WELL LOCATIONS

BURNHAM CANAL SUPERFUND ALTERNATIVE SITE
MILLER COMPRESSING COMPANY
MILWAUKEE, WISCONSIN

PROJECT NO: 2117/8.1

FIGURE NO: 2

Natural Resource Technology
AN OBG COMPANY

Y:\Mapping\Projects\2121217\MXD\Figure 2_Approx Proposed Screening Well Locations.mxd Author: CushmaTD: Date/Time: 10/18/2017, 9:33:38 AM

Tables

Groundwater Analytical Table
Burnham Canal, Milwaukee

			Elevation (NAVD 88, Feet)					Dissolved Metals (ug/L)		PAHs (ug/L)																	
Sample Location	Sample ID	Sample Date	Ground Surface	Top of Casing	Depth to Water (Below Top of Casing)	Depth to Water (Below Ground Surface)	Water Level	Copper	Lead	Acenaphthene	Acenaphtylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
		WI Groundwater PAL:	NA	NA	NA	NA	NA	*130*	*1.5*	*NS*	*NS*	*600*	*NS*	*0.02*	*0.02*	*NS*	*NS*	*0.02*	*NS*	*80*	*80*	*NS*	*NS*	*NS*	*10*	*NS*	*50*	*NS*
		WI Groundwater ES:	NA	NA	NA	NA	NA	**1,300**	**15**	**NS**	**NS**	**3,000**	**NS**	**0.2**	**0.2**	**NS**	**NS**	**0.2**	**NS**	**400**	**400**	**NS**	**NS**	**NS**	**100**	**NS**	**250**	**NS**
MW-1	110917001	11/9/2017	584.17	583.74	2.09	2.52	581.65	<1.1	<2.0	0.018 J	<0.0050	<0.010	<0.0076	<0.011	<0.0057	<0.0068	<0.0076	<0.013	<0.010	0.011 J	<0.0080	<0.018	0.10	0.10	0.14	0.024 J	0.0099 J	0.41
	121117001	12/11/2017			2.22	2.65	581.52	<10.9	<2.0	0.017 J	<0.0049	<0.010	<0.0074	<0.010	<0.0056	<0.0066	<0.0074	<0.013	<0.0098	<0.010	<0.0078	<0.017	0.090	0.090	0.14	0.039 J	0.013 J	0.40
MW-2	110917002	11/9/2017	583.68	583.32	2.74	3.10	580.58	2.4 J	0.30 J	<0.0061	0.013 J	0.14	0.016 J	<0.011	<0.0057	<0.0068	<0.0076	<0.013	<0.010	0.014 J	<0.0080	<0.018	0.038	<0.0049	0.14	<0.014	0.067	0.45
	110917003	11/9/2017						2.5 J	0.29 J	<0.0060	0.0099 J	0.13	0.014 J	<0.010	<0.0056	<0.0066	<0.0074	<0.013	<0.0098	0.013 J	<0.0078	<0.017	0.034	<0.0048	0.12	0.023 J	0.061	0.43
	121117002	12/11/2017			2.74	3.10	580.58	4.3	0.89 J	0.28	0.034	0.090	0.0086 J	<0.011	<0.0057	<0.0068	<0.0076	<0.013	<0.010	0.050 J	0.31	<0.018	0.92	0.053	0.38	0.088	0.044	2.3
	121117003	12/11/2017						2.1 J	0.27 J	0.34	0.040	0.10	0.013 J	<0.011	<0.0058	<0.0068	<0.0076	<0.013	<0.010	0.059	0.37	<0.018	1.1	0.060	0.42	0.078	0.049	2.6
MW-3	110917004	11/9/2017	583.60	583.14	2.52	2.98	580.62	5.7	1.0	0.014 J	<0.0050	<0.010	<0.0076	<0.011	<0.0057	<0.0068	<0.0076	<0.013	<0.010	0.017 J	0.013 J	<0.018	0.029 J	0.024 J	0.040 J	0.041 J	0.011 J	0.21
	121117004	12/11/2017			2.49	2.95	580.65	7.6	1.2	0.0087 J	<0.0050	0.012 J	<0.0076	<0.011	<0.0057	<0.0068	<0.0076	<0.013	<0.010	0.013 J	<0.0080	<0.018	0.0069 J	0.0056 J	<0.018	0.018 J	0.012 J	0.099
Canal Water Surface	NA	11/9/2017	NA	NA	NA	NA	580.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	12/11/2017	NA	NA	NA	NA	580.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

[O: MDW 11/30/17; C: KJK 12/1/17; U: MDW 1/4/18; C: EDP 1/4/18]

NOTES:
Italic Underline = result attains or exceeds WDNR Preventative Action Limit (PAL)
Bold Italic Underline = result attains or exceeds WDNR PAL and Enforcement Standard (ES)
PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective July 2015.
J = Indicates an estimated value
ug/L = micrograms per liter
NA = Not Analyzed or Not Applicable
NS = No Standard
PAHs = Polycyclic Aromatic Hydrocarbons
WDNR = Wisconsin Department of Natural Resources
WI = Wisconsin

Attachment 1 – Soil Boring Logs

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
MCC Holding, Inc.- Burnham Canal		MW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site Environmental Services, Inc.	10/27/2017	10/27/2017	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VR923		MW-1	Feet (NAVD88)	584.2 Feet (NAVD88)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section , T N, R
Lat 43° 1' 34.428" Long 87° 55' 52.369"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID 10.6 eV Lamp	Soil Properties: Compressive Strength (tsf)	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 25		1	0 - 0.5' ASPHALT (FILL).	(FILL)									
			2	0.5 - 5.5' FILL, CONCRETE (FILL), light gray (10YR 7/1), few gravel, some sand, dry, rip rap.										Sample #1 low recovery.
			3		(FILL)									
			4											
			5											
2 CS	60 45		6	5.5 - 12.4' SILTY CLAY CL/ML, gray (10YR 5/1), trace dark gray (10YR 4/1) organics, and sand, low plasticity, low toughness, slow dilatency, wet.					0.5					
			7											
			8											
			9		CL/ML									
3 CS	60 45		10						0.25					
			11											
			12											
			13	12.4 - 15' ORGANIC SILT: OL, very dark gray (10YR 3/1), trace sand, little shells, fibrous wood debris, and organics, moist.	OL									
			14											
			15	15' End of Boring.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm Natural Resource Technology
234 W. Florida Street, Floor 5, Milwaukee, WI 53204
Tel: (414) 837-3607
Fax: (414) 837-3608

Date Modified: 12/13/2017

Template: WDNR SBL 1998 MKE ADDRESS - Project: 2117 GINT.GPJ

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
MCC Holding, Inc.- Burnham Canal		MW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site Environmental Services, Inc.	10/27/2017	10/27/2017	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VR921		MW-2	Feet (NAVD88)	583.7 Feet (NAVD88)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section , T N, R
Lat 43° 1' 34.902" Long 87° 55' 52.473"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID 10.6 eV Lamp	Soil Properties: Compressive Strength (tsf)	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 / 25		1	0 - 1.5' ASPHALT to CONCRETE (FILL).	(FILL)									Sample #1 low recovery
			2	1.5 - 8.6' FILL, POORLY-GRADED SAND WITH SILT: SP-SM, very dark gray (10YR 3/1), few wood debris, moist to wet, increasing moisture content with depth.	SP-SM									
2 CS	60 / 26		5	5.3' wet, strong odor, sheen on core sample liner.										Sample #2 low recovery due to wood in core sample
			9	8.6 - 10.2' SILTY CLAY CL/ML, gray (10YR 5/1), trace shells, sand and organics, nonplastic, low toughness, moist.	CL/ML				0.25					
3 CS	60 / 30		10	10.2 - 15' ORGANIC SILT: OL, very dark gray (10YR 3/1), trace to few shells and organics, nonplastic, low toughness, slow dilatency, wet.	OL									
			15	15' End of Boring.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel / Fax
	Natural Resource Technology 234 W. Florida Street, Floor 5, Milwaukee, WI 53204	Tel: (414) 837-3607 Fax: (414) 837-3608

Date Modified: 12/13/2017

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
MCC Holding, Inc.- Burnham Canal		MW-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site Environmental Services, Inc.	10/27/2017	10/27/2017	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VR922		MW-3	Feet (NAVD88)	583.6 Feet (NAVD88)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section , T N, R
Lat 43° 1' 35.462" Long 87° 55' 52.467"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID 10.6 eV Lamp	Soil Properties: Compressive Strength (tsf)	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 / 32		0	0 - 0.5' FILL, ASPHALT (FILL).	(FILL)									Sample #1 low recovery
			1	0.5 - 4.8' FILL, CONCRETE (FILL), (10YR 4/3) to (10YR 3/3), few gravel, some sand, few clay, dry to wet.										
			2											
			3		(FILL)									
			4											
			5	4.8 - 13.2' ORGANIC SILT: OL, very dark gray (10YR 3/1), trace sand and fiberous wood debris, few shells and organics, nonplastic, low toughness, slow dilatency, moist to wet.										
2 CS	60 / 38		6											
			7											
			8											
			9		OL									
			10											
3 CS	60 / 39		11	10.8' sand lens (1" thick).										
			12											
			13											
			14	13.2 - 13.6' POORLY-GRADED SAND: SP, dark gray (10YR 4/1), coarse subangular to subrounded sand, trace shells and gravel, saturated.	SP / OL									
			15	13.6 - 15' ORGANIC SILT: OL, very dark gray (10YR 3/1), trace sand and wood fibers, few shells and organics, nonplastic, low toughness, slow dilatency, wet.										
				15' End of Boring.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel / Fax
	Natural Resource Technology 234 W. Florida Street, Floor 5, Milwaukee, WI 53204	Tel: (414) 837-3607 Fax: (414) 837-3608

Date Modified: 12/13/2017

Template: WDNR SBL 1998 MKE ADDRESS - Project: 2117 GINT.GPJ

Attachment 2 – Monitoring Well Construction Forms

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: MCC Holding, Inc.- Burnham Canal	Local Grid Location of Well: ____ft. ☐N. ☐S. ____ft. ☐E. ☐W.	Well Name: MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. 43° 1' 34.4" Long. 87° 55' 52.4" or	Wis. Unique Well No.: VR923 / DNR Well Number:
Facility ID	St. Plane ____ ft. N, ____ ft. E. S /Ⓒ/ N	Date Well Installed: 10/27/2017
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm): Tony Kapugi; On-Site Environmental Services, Inc.
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 584.17 ft. (NAVD88)
B. Well casing, top elevation 583.74 ft. (NAVD88)
C. Land surface elevation 584.2 ft. (NAVD88)
D. Surface seal, bottom 584.2 ft. (NAVD88) or 0.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☒ SW ☐ SP ☐
SM ☐ SC ☐ ML ☒ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

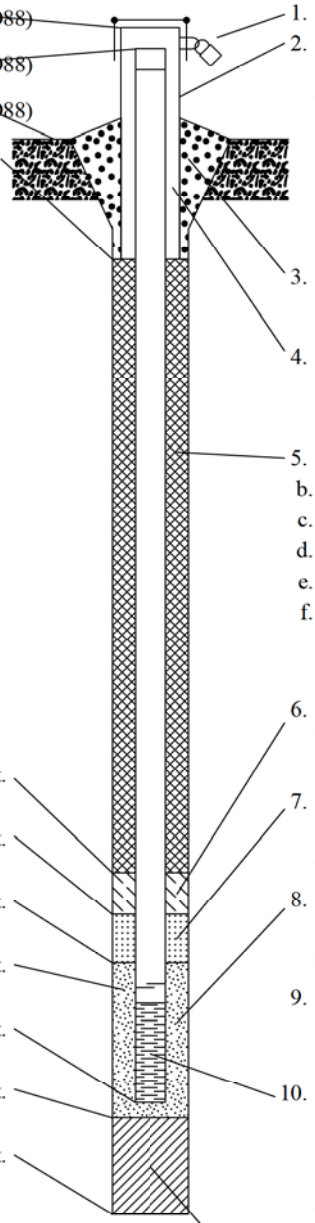
14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / Other ☐ ____

15. Drilling fluid used: Water ☐ 0 2 / Air ☐ 0 1 / Drilling Mud ☐ 0 3 / None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
n/a

E. Bentonite seal, top 584.2 ft. (NAVD88) or 0.0 ft.
F. Fine sand, top 580.2 ft. (NAVD88) or 4.0 ft.
G. Filter pack, top 579.2 ft. (NAVD88) or 5.0 ft.
H. Screen joint, top 579.2 ft. (NAVD88) or 5.0 ft.
I. Well bottom 569.2 ft. (NAVD88) or 15.0 ft.
J. Filter pack, bottom 568.7 ft. (NAVD88) or 15.5 ft.
K. Borehole, bottom 568.7 ft. (NAVD88) or 15.5 ft.
L. Borehole, diameter ____ in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4 / Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 3 0 / Concrete ☐ 0 1 / Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☒ 3 0 / Sand / Other ☒ ____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. R.W. Sidley, Inc.
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint Sand and Gravel
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐ ____
10. Screen material: Schedule 40 PVC
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐ ____
b. Manufacturer ____
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge. Date Modified: 12/13/2017

Signature: Firm: Natural Resource Technology, 234 W. Florida Street, Floor 5, Milwaukee, WI 53204 Tel: 414.837.3607 Fax: 414.837.3608

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: MCC Holding, Inc.- Burnham Canal	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. 43° 1' 34.9" Long. 87° 55' 52.5" or	Wis. Unique Well No.: VR921 / DNR Well Number:
Facility ID	St. Plane ____ ft. N, ____ ft. E. S /Ⓒ/ N	Date Well Installed: 10/27/2017
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm): Tony Kapugi; On-Site Environmental Services, Inc.
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 583.68 ft. (NAVD88)
B. Well casing, top elevation 583.32 ft. (NAVD88)
C. Land surface elevation 583.7 ft. (NAVD88)
D. Surface seal, bottom 583.7 ft. (NAVD88) or 0.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☐ SC ☐ ML ☒ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

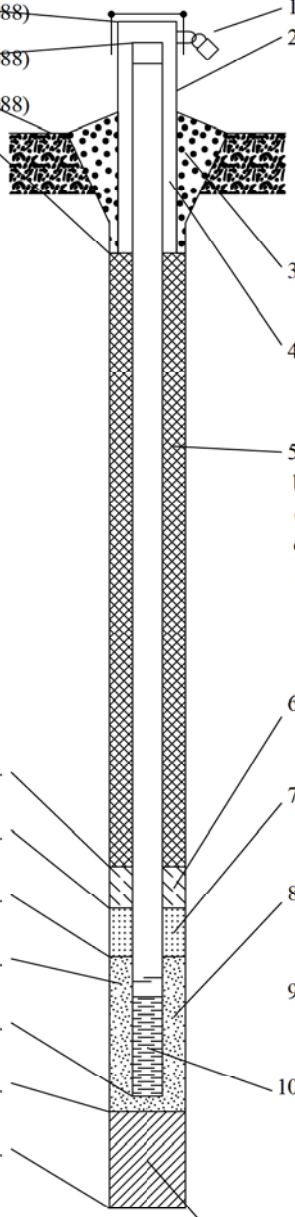
14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / Other ☐ ____

15. Drilling fluid used: Water ☐ 0 2 / Air ☐ 0 1 / Drilling Mud ☐ 0 3 / None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
n/a

E. Bentonite seal, top 583.7 ft. (NAVD88) or 0.0 ft.
F. Fine sand, top 579.7 ft. (NAVD88) or 4.0 ft.
G. Filter pack, top 578.7 ft. (NAVD88) or 5.0 ft.
H. Screen joint, top 578.7 ft. (NAVD88) or 5.0 ft.
I. Well bottom 568.7 ft. (NAVD88) or 15.0 ft.
J. Filter pack, bottom 568.2 ft. (NAVD88) or 15.5 ft.
K. Borehole, bottom 568.2 ft. (NAVD88) or 15.5 ft.
L. Borehole, diameter ____ in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4 / Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 3 0 / Concrete ☐ 0 1 / Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☒ 3 0 / Sand / Other ☒ ____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. R.W. Sidley, Inc.
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint Sand and Gravel
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐ ____
10. Screen material: Schedule 40 PVC
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐ ____
b. Manufacturer ____
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge. Date Modified: 12/13/2017

Signature: Liz Hall

Firm: Natural Resource Technology
234 W. Florida Street, Floor 5, Milwaukee, WI 53204
Tel: 414.837.3607
Fax: 414.837.3608

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: MCC Holding, Inc.- Burnham Canal	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. 43° 1' 35.5" Long. 87° 55' 52.5" or	Wis. Unique Well No.: VR922 / DNR Well Number:
Facility ID	St. Plane ____ ft. N, ____ ft. E. S /Ⓒ/ N	Date Well Installed: 10/27/2017
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm): Tony Kapugi / On-Site Environmental Services, Inc.
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 583.60 ft. (NAVD88)
B. Well casing, top elevation 583.14 ft. (NAVD88)
C. Land surface elevation 583.6 ft. (NAVD88)
D. Surface seal, bottom 583.6 ft. (NAVD88) or 0.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☐ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

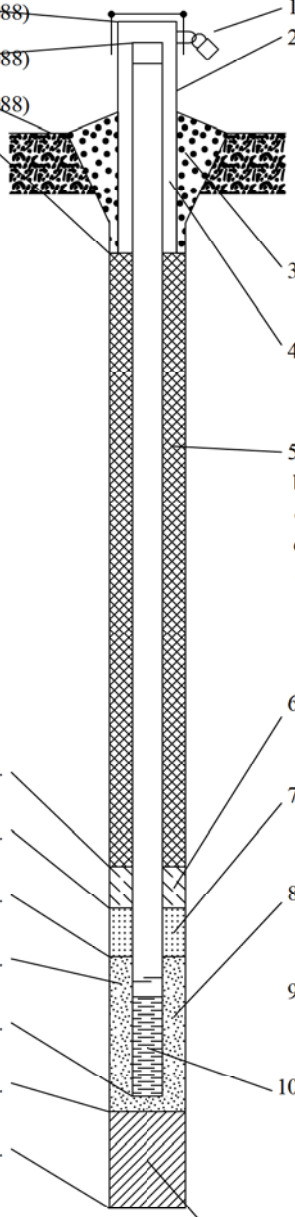
14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / ____ Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
n/a

E. Bentonite seal, top 583.6 ft. (NAVD88) or 0.0 ft.
F. Fine sand, top 579.6 ft. (NAVD88) or 4.0 ft.
G. Filter pack, top 578.6 ft. (NAVD88) or 5.0 ft.
H. Screen joint, top 578.6 ft. (NAVD88) or 5.0 ft.
I. Well bottom 568.6 ft. (NAVD88) or 15.0 ft.
J. Filter pack, bottom 568.1 ft. (NAVD88) or 15.5 ft.
K. Borehole, bottom 568.1 ft. (NAVD88) or 15.5 ft.
L. Borehole, diameter ____ in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4 / ____ Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 3 0 / Concrete ☐ 0 1 / ____ Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 3 0 / Sand Other ☒
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. R.W. Sidley, Inc.
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint Sand and Gravel
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / ____ Other ☐
10. Screen material: Schedule 40 PVC
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / ____ Other ☐
b. Manufacturer ____
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 / ____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge. Date Modified: 12/13/2017

Signature: [signature] Firm: Natural Resource Technology, 234 W. Florida Street, Floor 5, Milwaukee, WI 53204 Tel: 414.837.3607 Fax: 414.837.3608

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Attachment 3 – Monitoring Well Development Forms

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
MCC Holding, Inc.- Burnham Canal	Milwaukee	MW-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	41	VR923	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☐	5 1
pumped slowly	☐	5 0
other _____	☐	

3. Time spent developing well: 94 min.

4. Depth of well (from top of well casing): 15.0 ft.

5. Inside diameter of well: 2.07 in.

6. Volume of water in filter pack and well casing: 10.0168 gal.

7. Volume of water removed from well: 44.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: not applicable

10. Analysis performed on water added? ☐ Yes ☒ No (If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	1.91 ft.	4.38 ft.
Date	b.	10/30/2017	10/30/2017
Time	c.	10:07 ☒ a.m. ☐ p.m.	02:20 ☐ a.m. ☒ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) dark gray brown	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe) light brown to clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Eric Plante
Natural Resource Technology, Inc.

17. Additional comments on development:
Well purged dry three times during development.

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: MCC Holding, LLC.

Street: 1004 E. Ogden Ave.

City/State/Zip: Milwaukee WI 53202

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Eric Plante

Firm: Natural Resource Technology

Template: WDNR WELL DEVELOP 1998 - Project: 2117 GINT.GPJ

NOTE: See instructions for more information including a list of county codes and well type codes. Date Modified: 12/13/2017

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
MCC Holding, Inc.- Burnham Canal	Milwaukee	MW-2

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	41	VR921	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☐	5 1
pumped slowly	☐	5 0
other _____	☐	

3. Time spent developing well: 79 min.

4. Depth of well (from top of well casing): 14.7 ft.

5. Inside diameter of well: 2.07 in.

6. Volume of water in filter pack and well casing: 9.8706 gal.

7. Volume of water removed from well: 27.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: not applicable

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	2.47 ft.	7.80 ft.
Date	b.	10/30/2017	10/30/2017
Time	c.	11:06 ☒ a.m. ☐ p.m.	02:38 ☐ a.m. ☒ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) dark gray brown	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe) light brown to clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Eric Plante
Natural Resource Technology, Inc.

17. Additional comments on development:
Well purged dry three times during development.

Facility Address or Owner/Responsible Party Address

Name:

Firm: MCC Holding, LLC.

Street: 1004 E. Ogden Ave.

City/State/Zip: Milwaukee WI 53202

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Name: Eric Plante

Firm: Natural Resource Technology

Template: WDNR WELL DEVELOP 1998 - Project: 2117 GINT.GPJ

NOTE: See instructions for more information including a list of county codes and well type codes. Date Modified: 12/13/2017

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
MCC Holding, Inc.- Burnham Canal	Milwaukee	MW-3

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	41	VR922	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☐	5 1
pumped slowly	☐	5 0
other _____	☐	

3. Time spent developing well: 81 min.

4. Depth of well (from top of well casing): 14.7 ft.

5. Inside diameter of well: 2.07 in.

6. Volume of water in filter pack and well casing: 9.8978 gal.

7. Volume of water removed from well: 49.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: not applicable

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	2.33 ft.	2.54 ft.
Date	b.	10/30/2017	10/30/2017
Time	c.	11:58 ☒ a.m. ☐ p.m.	03:06 ☐ a.m. ☒ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) dark gray brown	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe) light brown to clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Eric Plante
Natural Resource Technology, Inc.

17. Additional comments on development:
Well purged dry three times during development.

Facility Address or Owner/Responsible Party Address

Name:

Firm: MCC Holding, LLC.

Street: 1004 E. Ogden Ave.

City/State/Zip: Milwaukee WI 53202

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Name: Eric Plante

Firm: Natural Resource Technology

Template: WDNR WELL DEVELOP 1998 - Project: 2117 GINT.GPJ

NOTE: See instructions for more information including a list of county codes and well type codes. Date Modified: 12/13/2017

Attachment 4 – Laboratory Analytical Reports

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 29, 2017

Julie Zimdars
NATURAL RESOURCE TECHNOLOGY
234 W. Florida St, 5th Floor
Milwaukee, WI 53204

RE: Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

Dear Julie Zimdars:
Enclosed are the analytical results for sample(s) received by the laboratory on November 11, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Data Delivery Team, Natural Resources Technologies

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40160686001	**110917001**	Water	11/09/17 10:08	11/11/17 10:00
40160686002	**110917002**	Water	11/09/17 11:01	11/11/17 10:00
40160686003	**110917003**	Water	11/09/17 11:06	11/11/17 10:00
40160686004	**110917004**	Water	11/09/17 11:46	11/11/17 10:00

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40160686001	**110917001**	EPA 6020	SDW	2
		EPA 8270 by HVI	TPO	21
40160686002	**110917002**	EPA 6020	SDW	2
		EPA 8270 by HVI	TPO	21
40160686003	**110917003**	EPA 6020	SDW	2
		EPA 8270 by HVI	TPO	21
40160686004	**110917004**	EPA 6020	SDW	2
		EPA 8270 by HVI	TPO	21

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

Sample: 110917001 **Lab ID: 40160686001** Collected: 11/09/17 10:08 Received: 11/11/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Copper	**<1.1**	ug/L	3.6	1.1	1	11/16/17 08:12	11/17/17 03:41	7440-50-8	
Lead	**<2.0**	ug/L	10.0	2.0	10	11/16/17 08:12	11/17/17 18:12	7439-92-1	D3
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.018J**	ug/L	0.030	0.0061	1	11/14/17 10:27	11/15/17 15:35	83-32-9	
Acenaphthylene	**<0.0050**	ug/L	0.025	0.0050	1	11/14/17 10:27	11/15/17 15:35	208-96-8	
Anthracene	**<0.010**	ug/L	0.052	0.010	1	11/14/17 10:27	11/15/17 15:35	120-12-7	
Benzo(a)anthracene	**<0.0076**	ug/L	0.038	0.0076	1	11/14/17 10:27	11/15/17 15:35	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	11/14/17 10:27	11/15/17 15:35	50-32-8	
Benzo(b)fluoranthene	**<0.0057**	ug/L	0.029	0.0057	1	11/14/17 10:27	11/15/17 15:35	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	11/14/17 10:27	11/15/17 15:35	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	11/14/17 10:27	11/15/17 15:35	207-08-9	
Chrysene	**<0.013**	ug/L	0.065	0.013	1	11/14/17 10:27	11/15/17 15:35	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.050	0.010	1	11/14/17 10:27	11/15/17 15:35	53-70-3	
Fluoranthene	**0.011J**	ug/L	0.053	0.011	1	11/14/17 10:27	11/15/17 15:35	206-44-0	
Fluorene	**<0.0080**	ug/L	0.040	0.0080	1	11/14/17 10:27	11/15/17 15:35	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.088	0.018	1	11/14/17 10:27	11/15/17 15:35	193-39-5	
1-Methylnaphthalene	**0.10**	ug/L	0.030	0.0059	1	11/14/17 10:27	11/15/17 15:35	90-12-0	
2-Methylnaphthalene	**0.10**	ug/L	0.024	0.0049	1	11/14/17 10:27	11/15/17 15:35	91-57-6	
Naphthalene	**0.14**	ug/L	0.092	0.018	1	11/14/17 10:27	11/15/17 15:35	91-20-3	
Phenanthrene	**0.024J**	ug/L	0.069	0.014	1	11/14/17 10:27	11/15/17 15:35	85-01-8	
Pyrene	**0.0099J**	ug/L	0.038	0.0076	1	11/14/17 10:27	11/15/17 15:35	129-00-0	
Total PAHs	**0.41**	ug/L			1	11/14/17 10:27	11/15/17 15:35		
Surrogates									
2-Fluorobiphenyl (S)	48	%	35-84		1	11/14/17 10:27	11/15/17 15:35	321-60-8	
Terphenyl-d14 (S)	56	%	10-129		1	11/14/17 10:27	11/15/17 15:35	1718-51-0	

Sample: 110917002 **Lab ID: 40160686002** Collected: 11/09/17 11:01 Received: 11/11/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Copper	**2.4J**	ug/L	3.6	1.1	1	11/16/17 08:12	11/17/17 03:56	7440-50-8	
Lead	**0.30J**	ug/L	1.0	0.20	1	11/16/17 08:12	11/17/17 03:56	7439-92-1	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0061**	ug/L	0.030	0.0061	1	11/14/17 10:27	11/15/17 15:54	83-32-9	
Acenaphthylene	**0.013J**	ug/L	0.025	0.0050	1	11/14/17 10:27	11/15/17 15:54	208-96-8	
Anthracene	**0.14**	ug/L	0.052	0.010	1	11/14/17 10:27	11/15/17 15:54	120-12-7	
Benzo(a)anthracene	**0.016J**	ug/L	0.038	0.0076	1	11/14/17 10:27	11/15/17 15:54	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	11/14/17 10:27	11/15/17 15:54	50-32-8	
Benzo(b)fluoranthene	**<0.0057**	ug/L	0.029	0.0057	1	11/14/17 10:27	11/15/17 15:54	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	11/14/17 10:27	11/15/17 15:54	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	11/14/17 10:27	11/15/17 15:54	207-08-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

Sample: 110917002 **Lab ID: 40160686002** Collected: 11/09/17 11:01 Received: 11/11/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Chrysene	**<0.013**	ug/L	0.065	0.013	1	11/14/17 10:27	11/15/17 15:54	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.050	0.010	1	11/14/17 10:27	11/15/17 15:54	53-70-3	
Fluoranthene	**0.014J**	ug/L	0.053	0.011	1	11/14/17 10:27	11/15/17 15:54	206-44-0	
Fluorene	**<0.0080**	ug/L	0.040	0.0080	1	11/14/17 10:27	11/15/17 15:54	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.088	0.018	1	11/14/17 10:27	11/15/17 15:54	193-39-5	
1-Methylnaphthalene	**0.038**	ug/L	0.030	0.0059	1	11/14/17 10:27	11/15/17 15:54	90-12-0	
2-Methylnaphthalene	**<0.0049**	ug/L	0.024	0.0049	1	11/14/17 10:27	11/15/17 15:54	91-57-6	
Naphthalene	**0.14**	ug/L	0.092	0.018	1	11/14/17 10:27	11/15/17 15:54	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.069	0.014	1	11/14/17 10:27	11/15/17 15:54	85-01-8	
Pyrene	**0.067**	ug/L	0.038	0.0076	1	11/14/17 10:27	11/15/17 15:54	129-00-0	
Total PAHs	**0.45**	ug/L			1	11/14/17 10:27	11/15/17 15:54		
Surrogates									
2-Fluorobiphenyl (S)	52	%	35-84		1	11/14/17 10:27	11/15/17 15:54	321-60-8	
Terphenyl-d14 (S)	54	%	10-129		1	11/14/17 10:27	11/15/17 15:54	1718-51-0	

Sample: 110917003 **Lab ID: 40160686003** Collected: 11/09/17 11:06 Received: 11/11/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Copper	**2.5J**	ug/L	3.6	1.1	1	11/16/17 08:12	11/17/17 04:03	7440-50-8	
Lead	**0.29J**	ug/L	1.0	0.20	1	11/16/17 08:12	11/17/17 04:03	7439-92-1	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0060**	ug/L	0.030	0.0060	1	11/14/17 10:27	11/15/17 16:49	83-32-9	
Acenaphthylene	**0.0099J**	ug/L	0.024	0.0049	1	11/14/17 10:27	11/15/17 16:49	208-96-8	
Anthracene	**0.13**	ug/L	0.051	0.010	1	11/14/17 10:27	11/15/17 16:49	120-12-7	
Benzo(a)anthracene	**0.014J**	ug/L	0.037	0.0074	1	11/14/17 10:27	11/15/17 16:49	56-55-3	
Benzo(a)pyrene	**<0.010**	ug/L	0.052	0.010	1	11/14/17 10:27	11/15/17 16:49	50-32-8	
Benzo(b)fluoranthene	**<0.0056**	ug/L	0.028	0.0056	1	11/14/17 10:27	11/15/17 16:49	205-99-2	
Benzo(g,h,i)perylene	**<0.0066**	ug/L	0.033	0.0066	1	11/14/17 10:27	11/15/17 16:49	191-24-2	
Benzo(k)fluoranthene	**<0.0074**	ug/L	0.037	0.0074	1	11/14/17 10:27	11/15/17 16:49	207-08-9	
Chrysene	**<0.013**	ug/L	0.064	0.013	1	11/14/17 10:27	11/15/17 16:49	218-01-9	
Dibenz(a,h)anthracene	**<0.0098**	ug/L	0.049	0.0098	1	11/14/17 10:27	11/15/17 16:49	53-70-3	
Fluoranthene	**0.013J**	ug/L	0.052	0.010	1	11/14/17 10:27	11/15/17 16:49	206-44-0	
Fluorene	**<0.0078**	ug/L	0.039	0.0078	1	11/14/17 10:27	11/15/17 16:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.086	0.017	1	11/14/17 10:27	11/15/17 16:49	193-39-5	
1-Methylnaphthalene	**0.034**	ug/L	0.029	0.0058	1	11/14/17 10:27	11/15/17 16:49	90-12-0	
2-Methylnaphthalene	**<0.0048**	ug/L	0.024	0.0048	1	11/14/17 10:27	11/15/17 16:49	91-57-6	
Naphthalene	**0.12**	ug/L	0.090	0.018	1	11/14/17 10:27	11/15/17 16:49	91-20-3	
Phenanthrene	**0.023J**	ug/L	0.068	0.014	1	11/14/17 10:27	11/15/17 16:49	85-01-8	
Pyrene	**0.061**	ug/L	0.038	0.0075	1	11/14/17 10:27	11/15/17 16:49	129-00-0	
Total PAHs	**0.43**	ug/L			1	11/14/17 10:27	11/15/17 16:49		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

Sample: 110917003 **Lab ID: 40160686003** Collected: 11/09/17 11:06 Received: 11/11/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Surrogates									
2-Fluorobiphenyl (S)	46	%	35-84		1	11/14/17 10:27	11/15/17 16:49	321-60-8	
Terphenyl-d14 (S)	46	%	10-129		1	11/14/17 10:27	11/15/17 16:49	1718-51-0	

Sample: 110917004 **Lab ID: 40160686004** Collected: 11/09/17 11:46 Received: 11/11/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Copper	**5.7**	ug/L	3.6	1.1	1	11/16/17 08:12	11/17/17 02:56	7440-50-8	
Lead	**1.0**	ug/L	1.0	0.20	1	11/16/17 08:12	11/17/17 02:56	7439-92-1	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.014J**	ug/L	0.030	0.0061	1	11/14/17 10:27	11/15/17 10:58	83-32-9	
Acenaphthylene	**<0.0050**	ug/L	0.025	0.0050	1	11/14/17 10:27	11/15/17 10:58	208-96-8	
Anthracene	**<0.010**	ug/L	0.052	0.010	1	11/14/17 10:27	11/15/17 10:58	120-12-7	
Benzo(a)anthracene	**<0.0076**	ug/L	0.038	0.0076	1	11/14/17 10:27	11/15/17 10:58	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	11/14/17 10:27	11/15/17 10:58	50-32-8	
Benzo(b)fluoranthene	**<0.0057**	ug/L	0.029	0.0057	1	11/14/17 10:27	11/15/17 10:58	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	11/14/17 10:27	11/15/17 10:58	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	11/14/17 10:27	11/15/17 10:58	207-08-9	
Chrysene	**<0.013**	ug/L	0.065	0.013	1	11/14/17 10:27	11/15/17 10:58	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.050	0.010	1	11/14/17 10:27	11/15/17 10:58	53-70-3	
Fluoranthene	**0.017J**	ug/L	0.053	0.011	1	11/14/17 10:27	11/15/17 10:58	206-44-0	
Fluorene	**0.013J**	ug/L	0.040	0.0080	1	11/14/17 10:27	11/15/17 10:58	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.088	0.018	1	11/14/17 10:27	11/15/17 10:58	193-39-5	
1-Methylnaphthalene	**0.029J**	ug/L	0.030	0.0059	1	11/14/17 10:27	11/15/17 10:58	90-12-0	
2-Methylnaphthalene	**0.024J**	ug/L	0.024	0.0049	1	11/14/17 10:27	11/15/17 10:58	91-57-6	
Naphthalene	**0.040J**	ug/L	0.092	0.018	1	11/14/17 10:27	11/15/17 10:58	91-20-3	
Phenanthrene	**0.041J**	ug/L	0.069	0.014	1	11/14/17 10:27	11/15/17 10:58	85-01-8	
Pyrene	**0.011J**	ug/L	0.038	0.0076	1	11/14/17 10:27	11/15/17 10:58	129-00-0	
Total PAHs	**0.21**	ug/L			1	11/14/17 10:27	11/15/17 10:58		
Surrogates									
2-Fluorobiphenyl (S)	51	%	35-84		1	11/14/17 10:27	11/15/17 10:58	321-60-8	
Terphenyl-d14 (S)	58	%	10-129		1	11/14/17 10:27	11/15/17 10:58	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

QC Batch: 274392 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 40160686001, 40160686002, 40160686003, 40160686004

METHOD BLANK: 1614560 Matrix: Water
Associated Lab Samples: 40160686001, 40160686002, 40160686003, 40160686004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.1	3.6	11/17/17 02:11	
Lead	ug/L	<0.20	1.0	11/17/17 02:11	

LABORATORY CONTROL SAMPLE: 1614561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	500	476	95	80-120	
Lead	ug/L	500	456	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1614562 1614563

Parameter	Units	40160686004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	5.7	500	500	439	436	87	86	75-125	1	20	
Lead	ug/L	1.0	500	500	472	470	94	94	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

QC Batch: 274061 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40160686001, 40160686002, 40160686003, 40160686004

METHOD BLANK: 1612882 Matrix: Water
Associated Lab Samples: 40160686001, 40160686002, 40160686003, 40160686004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	11/15/17 10:03	
2-Methylnaphthalene	ug/L	<0.0049	0.024	11/15/17 10:03	
Acenaphthene	ug/L	<0.0061	0.030	11/15/17 10:03	
Acenaphthylene	ug/L	<0.0050	0.025	11/15/17 10:03	
Anthracene	ug/L	<0.010	0.052	11/15/17 10:03	
Benzo(a)anthracene	ug/L	<0.0076	0.038	11/15/17 10:03	
Benzo(a)pyrene	ug/L	<0.011	0.053	11/15/17 10:03	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	11/15/17 10:03	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	11/15/17 10:03	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	11/15/17 10:03	
Chrysene	ug/L	<0.013	0.065	11/15/17 10:03	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	11/15/17 10:03	
Fluoranthene	ug/L	<0.011	0.053	11/15/17 10:03	
Fluorene	ug/L	<0.0080	0.040	11/15/17 10:03	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	11/15/17 10:03	
Naphthalene	ug/L	<0.018	0.092	11/15/17 10:03	
Phenanthrene	ug/L	<0.014	0.069	11/15/17 10:03	
Pyrene	ug/L	<0.0076	0.038	11/15/17 10:03	
Total PAHs	ug/L	0.0057		11/15/17 10:03	
2-Fluorobiphenyl (S)	%	56	35-84	11/15/17 10:03	
Terphenyl-d14 (S)	%	71	10-129	11/15/17 10:03	

LABORATORY CONTROL SAMPLE: 1612883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	68	39-83	
2-Methylnaphthalene	ug/L	2	1.3	66	38-86	
Acenaphthene	ug/L	2	1.2	62	35-85	
Acenaphthylene	ug/L	2	1.3	64	31-88	
Anthracene	ug/L	2	1.4	72	47-104	
Benzo(a)anthracene	ug/L	2	1.3	67	36-105	
Benzo(a)pyrene	ug/L	2	1.5	73	69-117	
Benzo(b)fluoranthene	ug/L	2	1.4	71	54-107	
Benzo(g,h,i)perylene	ug/L	2	0.97	48	13-86	
Benzo(k)fluoranthene	ug/L	2	1.4	72	63-128	
Chrysene	ug/L	2	1.7	86	69-150	
Dibenz(a,h)anthracene	ug/L	2	0.88	44	10-87	
Fluoranthene	ug/L	2	1.6	79	57-103	
Fluorene	ug/L	2	1.3	67	38-85	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.5	73	40-111	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

LABORATORY CONTROL SAMPLE: 1612883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.1	56	39-82	
Phenanthrene	ug/L	2	1.4	70	46-96	
Pyrene	ug/L	2	1.6	79	57-110	
Total PAHs	ug/L		24.3			
2-Fluorobiphenyl (S)	%			57	35-84	
Terphenyl-d14 (S)	%			72	10-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1612884 1612885

Parameter	Units	40160686004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.029J	2	2	1.1	1.3	56	64	27-86	13	29	
2-Methylnaphthalene	ug/L	0.024J	2	2	1.1	1.3	56	63	30-86	12	35	
Acenaphthene	ug/L	0.014J	2	2	1.0	1.1	51	57	28-85	10	29	
Acenaphthylene	ug/L	<0.0050	2	2	1.0	1.2	51	58	27-88	12	29	
Anthracene	ug/L	<0.010	2	2	1.3	1.2	64	62	38-104	3	35	
Benzo(a)anthracene	ug/L	<0.0076	2	2	0.84	0.93	42	46	10-105	10	28	
Benzo(a)pyrene	ug/L	<0.011	2	2	0.64	0.73	32	36	10-130	13	26	
Benzo(b)fluoranthene	ug/L	<0.0057	2	2	0.65	0.70	32	35	10-115	7	25	
Benzo(g,h,i)perylene	ug/L	<0.0068	2	2	0.45	0.51	23	26	10-87	12	42	
Benzo(k)fluoranthene	ug/L	<0.0076	2	2	0.64	0.76	32	38	10-133	16	25	
Chrysene	ug/L	<0.013	2	2	1.2	1.2	57	62	17-150	7	24	
Dibenz(a,h)anthracene	ug/L	<0.010	2	2	0.41	0.45	20	22	10-89	9	49	
Fluoranthene	ug/L	0.017J	2	2	1.2	1.3	62	66	41-103	7	32	
Fluorene	ug/L	0.013J	2	2	1.1	1.2	55	60	32-85	9	28	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	2	2	0.42	0.46	21	23	10-111	10	37	
Naphthalene	ug/L	0.040J	2	2	1.0	1.2	49	56	23-88	13	28	
Phenanthrene	ug/L	0.041J	2	2	1.2	1.3	58	61	33-96	6	25	
Pyrene	ug/L	0.011J	2	2	1.2	1.4	62	68	38-110	9	28	
Total PAHs	ug/L	0.21			16.6	18.2				9		
2-Fluorobiphenyl (S)	%						48	53	35-84			
Terphenyl-d14 (S)	%						46	50	10-129			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2117/8.1 MCC HOLDING INC-BURNH
Pace Project No.: 40160686

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40160686001	**110917001**	EPA 3010	274392	EPA 6020	274550
40160686002	**110917002**	EPA 3010	274392	EPA 6020	274550
40160686003	**110917003**	EPA 3010	274392	EPA 6020	274550
40160686004	**110917004**	EPA 3010	274392	EPA 6020	274550
40160686001	**110917001**	EPA 3510	274061	EPA 8270 by HVI	274165
40160686002	**110917002**	EPA 3510	274061	EPA 8270 by HVI	274165
40160686003	**110917003**	EPA 3510	274061	EPA 8270 by HVI	274165
40160686004	**110917004**	EPA 3510	274061	EPA 8270 by HVI	274165

(Please Print Clearly)

Company Name:	Natural Resource Technology
Branch/Location:	Milwaukee
Project Contact:	Mark Walter
Phone:	(414) 837-3563
Project Number:	2117 / Task 8.1
Project Name:	MCC Holding, Inc - Burnham Canal
Project State:	Wisconsin
Sampled By (Print):	Eric Plante
Sampled By (Sign):	Eric Plante
PO #:	Regulatory Program:

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

SSM

Page 1 of 1

401606866

Custody Seals: 2117-1110-001 & 2117-1110-002

Page 13 of 14

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Mark Walter
Mail To Company:	Natural Resource Tech
Mail To Address:	234 W. Florida Street Milwaukee, WI 53204
Invoice To Contact:	Same as Above
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☒ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PAH's 8270	Metals #6020	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	110917001	11-9-17	1008	GW	N	A	X	X	#Cu, Pb, ~~BEAS~~ WP	1-250mlp^D 2-~~125~~mlag^A	100 DS 11/11/17
002	110917002	↓	1101	↓	N	A	X	X			
003	110917003		1106		N	A	X	X			
004	110917004	▼	1146	▼	N	A	X	X	MS/MSD1	3-250mlp^D 6-~~125~~mlag^A	
							EOP	11/10/17		100 DS 11/11/17	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: Eric Plante	Date/Time: 11/10/17 0955	Received By:	Date/Time:
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: CS Logistics	Date/Time: 11/11/17 1000	Received By: Osama Pace	Date/Time: 11/11/17 1000
Email #1:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Email #2:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Telephone:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Fax:				

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 401606866

Receipt Temp = ROI °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: NRT

Project #: **WO# : 40160686**

40160686

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used MA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 11/11/17
Initials: BB

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☑No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☑Yes	☐No	☐N/A	13. ☑ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☑No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14.
Trip Blank Present:	☐Yes	☑No	☐N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution: Returned 1 250mLp

Project Manager Review: **Date:** 11-13-17

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 04, 2018

Mark Walter
Natural Resource Technology
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204

RE: Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

Dear Mark Walter:
Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Data Delivery Team, Natural Resources Technologies
Julie Zimdars, NATURAL RESOURCE TECHNOLOGY

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40162323001	**121117001**	Water	12/11/17 11:17	12/13/17 10:20
40162323002	**121117002**	Water	12/11/17 12:16	12/13/17 10:20
40162323003	**121117003**	Water	12/11/17 12:21	12/13/17 10:20
40162323004	**121117004**	Water	12/11/17 13:31	12/13/17 10:20

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40162323001	**121117001**	EPA 6020	SDW	2
		EPA 8270 by HVI	TPO	21
40162323002	**121117002**	EPA 6020	SDW	2
		EPA 8270 by HVI	TPO	21
40162323003	**121117003**	EPA 6020	SDW	2
		EPA 8270 by HVI	TPO	21
40162323004	**121117004**	EPA 6020	SDW	2
		EPA 8270 by HVI	TPO	21

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

Sample: 121117001 **Lab ID: 40162323001** Collected: 12/11/17 11:17 Received: 12/13/17 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Copper, Dissolved	**<10.9**	ug/L	36.5	10.9	10	12/14/17 08:44	12/29/17 04:56	7440-50-8	D3
Lead, Dissolved	**<2.0**	ug/L	10.0	2.0	10	12/14/17 08:44	12/29/17 04:56	7439-92-1	D3
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.017J**	ug/L	0.030	0.0060	1	12/18/17 08:06	12/18/17 12:59	83-32-9	
Acenaphthylene	**<0.0049**	ug/L	0.024	0.0049	1	12/18/17 08:06	12/18/17 12:59	208-96-8	
Anthracene	**<0.010**	ug/L	0.051	0.010	1	12/18/17 08:06	12/18/17 12:59	120-12-7	
Benzo(a)anthracene	**<0.0074**	ug/L	0.037	0.0074	1	12/18/17 08:06	12/18/17 12:59	56-55-3	
Benzo(a)pyrene	**<0.010**	ug/L	0.052	0.010	1	12/18/17 08:06	12/18/17 12:59	50-32-8	
Benzo(b)fluoranthene	**<0.0056**	ug/L	0.028	0.0056	1	12/18/17 08:06	12/18/17 12:59	205-99-2	
Benzo(g,h,i)perylene	**<0.0066**	ug/L	0.033	0.0066	1	12/18/17 08:06	12/18/17 12:59	191-24-2	
Benzo(k)fluoranthene	**<0.0074**	ug/L	0.037	0.0074	1	12/18/17 08:06	12/18/17 12:59	207-08-9	
Chrysene	**<0.013**	ug/L	0.064	0.013	1	12/18/17 08:06	12/18/17 12:59	218-01-9	
Dibenz(a,h)anthracene	**<0.0098**	ug/L	0.049	0.0098	1	12/18/17 08:06	12/18/17 12:59	53-70-3	
Fluoranthene	**<0.010**	ug/L	0.052	0.010	1	12/18/17 08:06	12/18/17 12:59	206-44-0	
Fluorene	**<0.0078**	ug/L	0.039	0.0078	1	12/18/17 08:06	12/18/17 12:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.086	0.017	1	12/18/17 08:06	12/18/17 12:59	193-39-5	
1-Methylnaphthalene	**0.090**	ug/L	0.029	0.0058	1	12/18/17 08:06	12/18/17 12:59	90-12-0	
2-Methylnaphthalene	**0.090**	ug/L	0.024	0.0048	1	12/18/17 08:06	12/18/17 12:59	91-57-6	
Naphthalene	**0.14**	ug/L	0.090	0.018	1	12/18/17 08:06	12/18/17 12:59	91-20-3	
Phenanthrene	**0.039J**	ug/L	0.068	0.014	1	12/18/17 08:06	12/18/17 12:59	85-01-8	
Pyrene	**0.013J**	ug/L	0.038	0.0075	1	12/18/17 08:06	12/18/17 12:59	129-00-0	B
Total PAHs	**0.40**	ug/L			1	12/18/17 08:06	12/18/17 12:59		
Surrogates									
2-Fluorobiphenyl (S)	51	%	35-84		1	12/18/17 08:06	12/18/17 12:59	321-60-8	
Terphenyl-d14 (S)	60	%	10-129		1	12/18/17 08:06	12/18/17 12:59	1718-51-0	

Sample: 121117002 **Lab ID: 40162323002** Collected: 12/11/17 12:16 Received: 12/13/17 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Copper, Dissolved	**4.3**	ug/L	3.6	1.1	1	12/14/17 08:44	12/27/17 04:33	7440-50-8	B
Lead, Dissolved	**0.89J**	ug/L	1.0	0.20	1	12/14/17 08:44	12/27/17 04:33	7439-92-1	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.28**	ug/L	0.030	0.0061	1	12/14/17 08:15	12/15/17 18:13	83-32-9	
Acenaphthylene	**0.034**	ug/L	0.025	0.0050	1	12/14/17 08:15	12/15/17 18:13	208-96-8	
Anthracene	**0.090**	ug/L	0.052	0.010	1	12/14/17 08:15	12/15/17 18:13	120-12-7	
Benzo(a)anthracene	**0.0086J**	ug/L	0.038	0.0076	1	12/14/17 08:15	12/15/17 18:13	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	12/14/17 08:15	12/15/17 18:13	50-32-8	
Benzo(b)fluoranthene	**<0.0057**	ug/L	0.029	0.0057	1	12/14/17 08:15	12/15/17 18:13	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	12/14/17 08:15	12/15/17 18:13	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	12/14/17 08:15	12/15/17 18:13	207-08-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

Sample: 121117002 **Lab ID: 40162323002** Collected: 12/11/17 12:16 Received: 12/13/17 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Chrysene	**<0.013**	ug/L	0.065	0.013	1	12/14/17 08:15	12/15/17 18:13	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.050	0.010	1	12/14/17 08:15	12/15/17 18:13	53-70-3	
Fluoranthene	**0.050J**	ug/L	0.053	0.011	1	12/14/17 08:15	12/15/17 18:13	206-44-0	
Fluorene	**0.31**	ug/L	0.040	0.0080	1	12/14/17 08:15	12/15/17 18:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.088	0.018	1	12/14/17 08:15	12/15/17 18:13	193-39-5	
1-Methylnaphthalene	**0.92**	ug/L	0.030	0.0059	1	12/14/17 08:15	12/15/17 18:13	90-12-0	
2-Methylnaphthalene	**0.053**	ug/L	0.024	0.0049	1	12/14/17 08:15	12/15/17 18:13	91-57-6	
Naphthalene	**0.38**	ug/L	0.092	0.018	1	12/14/17 08:15	12/15/17 18:13	91-20-3	
Phenanthrene	**0.088**	ug/L	0.069	0.014	1	12/14/17 08:15	12/15/17 18:13	85-01-8	
Pyrene	**0.044**	ug/L	0.038	0.0076	1	12/14/17 08:15	12/15/17 18:13	129-00-0	
Total PAHs	**2.3**	ug/L			1	12/14/17 08:15	12/15/17 18:13		
Surrogates									
2-Fluorobiphenyl (S)	37	%	35-84		1	12/14/17 08:15	12/15/17 18:13	321-60-8	
Terphenyl-d14 (S)	46	%	10-129		1	12/14/17 08:15	12/15/17 18:13	1718-51-0	

Sample: 121117003 **Lab ID: 40162323003** Collected: 12/11/17 12:21 Received: 12/13/17 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Copper, Dissolved	**2.1J**	ug/L	3.6	1.1	1	12/14/17 08:44	12/27/17 04:46	7440-50-8	B
Lead, Dissolved	**0.27J**	ug/L	1.0	0.20	1	12/14/17 08:44	12/27/17 04:46	7439-92-1	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.34**	ug/L	0.031	0.0061	1	12/14/17 08:15	12/15/17 18:31	83-32-9	
Acenaphthylene	**0.040**	ug/L	0.025	0.0050	1	12/14/17 08:15	12/15/17 18:31	208-96-8	
Anthracene	**0.10**	ug/L	0.053	0.011	1	12/14/17 08:15	12/15/17 18:31	120-12-7	
Benzo(a)anthracene	**0.013J**	ug/L	0.038	0.0076	1	12/14/17 08:15	12/15/17 18:31	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	12/14/17 08:15	12/15/17 18:31	50-32-8	
Benzo(b)fluoranthene	**<0.0058**	ug/L	0.029	0.0058	1	12/14/17 08:15	12/15/17 18:31	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	12/14/17 08:15	12/15/17 18:31	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	12/14/17 08:15	12/15/17 18:31	207-08-9	
Chrysene	**<0.013**	ug/L	0.066	0.013	1	12/14/17 08:15	12/15/17 18:31	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.051	0.010	1	12/14/17 08:15	12/15/17 18:31	53-70-3	
Fluoranthene	**0.059**	ug/L	0.054	0.011	1	12/14/17 08:15	12/15/17 18:31	206-44-0	
Fluorene	**0.37**	ug/L	0.040	0.0081	1	12/14/17 08:15	12/15/17 18:31	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.089	0.018	1	12/14/17 08:15	12/15/17 18:31	193-39-5	
1-Methylnaphthalene	**1.1**	ug/L	0.030	0.0060	1	12/14/17 08:15	12/15/17 18:31	90-12-0	
2-Methylnaphthalene	**0.060**	ug/L	0.025	0.0049	1	12/14/17 08:15	12/15/17 18:31	91-57-6	
Naphthalene	**0.42**	ug/L	0.093	0.019	1	12/14/17 08:15	12/15/17 18:31	91-20-3	
Phenanthrene	**0.078**	ug/L	0.070	0.014	1	12/14/17 08:15	12/15/17 18:31	85-01-8	
Pyrene	**0.049**	ug/L	0.039	0.0077	1	12/14/17 08:15	12/15/17 18:31	129-00-0	
Total PAHs	**2.6**	ug/L			1	12/14/17 08:15	12/15/17 18:31		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

Sample: 121117003 **Lab ID: 40162323003** Collected: 12/11/17 12:21 Received: 12/13/17 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Surrogates									
2-Fluorobiphenyl (S)	48	%	35-84		1	12/14/17 08:15	12/15/17 18:31	321-60-8	
Terphenyl-d14 (S)	53	%	10-129		1	12/14/17 08:15	12/15/17 18:31	1718-51-0	

Sample: 121117004 **Lab ID: 40162323004** Collected: 12/11/17 13:31 Received: 12/13/17 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Copper, Dissolved	**7.6**	ug/L	3.6	1.1	1	12/14/17 08:44	12/27/17 05:07	7440-50-8	B
Lead, Dissolved	**1.2**	ug/L	1.0	0.20	1	12/14/17 08:44	12/27/17 05:07	7439-92-1	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.0087J**	ug/L	0.030	0.0061	1	12/14/17 08:15	12/18/17 20:21	83-32-9	
Acenaphthylene	**<0.0050**	ug/L	0.025	0.0050	1	12/14/17 08:15	12/18/17 20:21	208-96-8	
Anthracene	**0.012J**	ug/L	0.052	0.010	1	12/14/17 08:15	12/18/17 20:21	120-12-7	
Benzo(a)anthracene	**<0.0076**	ug/L	0.038	0.0076	1	12/14/17 08:15	12/18/17 20:21	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	12/14/17 08:15	12/18/17 20:21	50-32-8	
Benzo(b)fluoranthene	**<0.0057**	ug/L	0.029	0.0057	1	12/14/17 08:15	12/18/17 20:21	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	12/14/17 08:15	12/18/17 20:21	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	12/14/17 08:15	12/18/17 20:21	207-08-9	
Chrysene	**<0.013**	ug/L	0.065	0.013	1	12/14/17 08:15	12/18/17 20:21	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.050	0.010	1	12/14/17 08:15	12/18/17 20:21	53-70-3	
Fluoranthene	**0.013J**	ug/L	0.053	0.011	1	12/14/17 08:15	12/18/17 20:21	206-44-0	
Fluorene	**<0.0080**	ug/L	0.040	0.0080	1	12/14/17 08:15	12/18/17 20:21	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.088	0.018	1	12/14/17 08:15	12/18/17 20:21	193-39-5	
1-Methylnaphthalene	**0.0069J**	ug/L	0.030	0.0059	1	12/14/17 08:15	12/18/17 20:21	90-12-0	
2-Methylnaphthalene	**0.0056J**	ug/L	0.024	0.0049	1	12/14/17 08:15	12/18/17 20:21	91-57-6	
Naphthalene	**<0.018**	ug/L	0.092	0.018	1	12/14/17 08:15	12/18/17 20:21	91-20-3	
Phenanthrene	**0.018J**	ug/L	0.069	0.014	1	12/14/17 08:15	12/18/17 20:21	85-01-8	
Pyrene	**0.012J**	ug/L	0.038	0.0076	1	12/14/17 08:15	12/18/17 20:21	129-00-0	
Total PAHs	**0.099**	ug/L			1	12/14/17 08:15	12/18/17 20:21		
Surrogates									
2-Fluorobiphenyl (S)	50	%	35-84		1	12/14/17 08:15	12/18/17 20:21	321-60-8	
Terphenyl-d14 (S)	66	%	10-129		1	12/14/17 08:15	12/18/17 20:21	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

QC Batch: 277102 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40162323001, 40162323002, 40162323003, 40162323004

METHOD BLANK: 1629128 Matrix: Water
Associated Lab Samples: 40162323001, 40162323002, 40162323003, 40162323004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper, Dissolved	ug/L	1.4J	3.6	12/27/17 03:45	
Lead, Dissolved	ug/L	<0.20	1.0	12/27/17 03:45	

LABORATORY CONTROL SAMPLE: 1629129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper, Dissolved	ug/L	500	514	103	80-120	
Lead, Dissolved	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629130 1629131

Parameter	Units	40162323001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper, Dissolved	ug/L	<10.9	500	500	498	488	99	97	75-125	2	20	
Lead, Dissolved	ug/L	<2.0	500	500	519	513	103	102	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

QC Batch: 277103 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40162323002, 40162323003, 40162323004

METHOD BLANK: 1629132 Matrix: Water
Associated Lab Samples: 40162323002, 40162323003, 40162323004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	12/15/17 11:46	
2-Methylnaphthalene	ug/L	<0.0049	0.024	12/15/17 11:46	
Acenaphthene	ug/L	<0.0061	0.030	12/15/17 11:46	
Acenaphthylene	ug/L	<0.0050	0.025	12/15/17 11:46	
Anthracene	ug/L	<0.010	0.052	12/15/17 11:46	
Benzo(a)anthracene	ug/L	<0.0076	0.038	12/15/17 11:46	
Benzo(a)pyrene	ug/L	<0.011	0.053	12/15/17 11:46	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	12/15/17 11:46	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	12/15/17 11:46	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	12/15/17 11:46	
Chrysene	ug/L	<0.013	0.065	12/15/17 11:46	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	12/15/17 11:46	
Fluoranthene	ug/L	<0.011	0.053	12/15/17 11:46	
Fluorene	ug/L	<0.0080	0.040	12/15/17 11:46	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	12/15/17 11:46	
Naphthalene	ug/L	<0.018	0.092	12/15/17 11:46	
Phenanthrene	ug/L	<0.014	0.069	12/15/17 11:46	
Pyrene	ug/L	<0.0076	0.038	12/15/17 11:46	
2-Fluorobiphenyl (S)	%	51	35-84	12/15/17 11:46	
Terphenyl-d14 (S)	%	79	10-129	12/15/17 11:46	

LABORATORY CONTROL SAMPLE: 1629133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.3	66	39-83	
2-Methylnaphthalene	ug/L	2	1.2	61	38-86	
Acenaphthene	ug/L	2	1.3	63	35-85	
Acenaphthylene	ug/L	2	1.2	61	31-88	
Anthracene	ug/L	2	1.6	79	47-104	
Benzo(a)anthracene	ug/L	2	1.3	66	36-105	
Benzo(a)pyrene	ug/L	2	1.6	80	69-117	
Benzo(b)fluoranthene	ug/L	2	1.5	76	54-107	
Benzo(g,h,i)perylene	ug/L	2	0.92	46	13-86	
Benzo(k)fluoranthene	ug/L	2	1.6	79	63-128	
Chrysene	ug/L	2	2.0	99	69-150	
Dibenz(a,h)anthracene	ug/L	2	0.87	44	10-87	
Fluoranthene	ug/L	2	1.7	84	57-103	
Fluorene	ug/L	2	1.3	66	38-85	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	72	40-111	
Naphthalene	ug/L	2	1.1	56	39-82	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

LABORATORY CONTROL SAMPLE: 1629133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.3	63	46-96	
Pyrene	ug/L	2	1.6	80	57-110	
2-Fluorobiphenyl (S)	%			56	35-84	
Terphenyl-d14 (S)	%			78	10-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629134 1629135

Parameter	Units	40162272003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.0063	2.2	2.1	1.3	1.3	60	64	27-86	2	29	
2-Methylnaphthalene	ug/L	<0.0053	2.2	2.1	1.2	1.2	53	58	30-86	4	35	
Acenaphthene	ug/L	<0.0065	2.2	2.1	1.3	1.2	58	58	28-85	4	29	
Acenaphthylene	ug/L	<0.0054	2.2	2.1	1.2	1.2	54	56	27-88	2	29	
Anthracene	ug/L	<0.011	2.2	2.1	1.5	1.4	71	67	38-104	10	35	
Benzo(a)anthracene	ug/L	<0.0081	2.2	2.1	1.1	1.0	48	49	10-105	3	28	
Benzo(a)pyrene	ug/L	<0.011	2.2	2.1	1.3	1.2	58	59	10-130	1	26	
Benzo(b)fluoranthene	ug/L	<0.0062	2.2	2.1	1.3	1.3	60	62	10-115	1	25	
Benzo(g,h,i)perylene	ug/L	<0.0073	2.2	2.1	0.53	0.48	24	23	10-87	10	42	
Benzo(k)fluoranthene	ug/L	<0.0081	2.2	2.1	1.2	1.1	57	54	10-133	11	25	
Chrysene	ug/L	<0.014	2.2	2.1	1.9	1.8	86	87	17-150	3	24	
Dibenz(a,h)anthracene	ug/L	<0.011	2.2	2.1	0.54	0.40	25	19	10-89	30	49	
Fluoranthene	ug/L	<0.011	2.2	2.1	1.6	1.6	74	74	41-103	4	32	
Fluorene	ug/L	<0.0086	2.2	2.1	1.3	1.2	59	60	32-85	4	28	
Indeno(1,2,3-cd)pyrene	ug/L	<0.019	2.2	2.1	0.88	0.81	40	39	10-111	8	37	
Naphthalene	ug/L	<0.020	2.2	2.1	1.1	1.2	52	57	23-88	5	28	
Phenanthrene	ug/L	<0.015	2.2	2.1	1.3	1.2	58	57	33-96	6	25	
Pyrene	ug/L	<0.0082	2.2	2.1	1.6	1.5	72	72	38-110	4	28	
2-Fluorobiphenyl (S)	%						51	54	35-84			
Terphenyl-d14 (S)	%						65	67	10-129			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

QC Batch: 277342
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by HVI
Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40162323001

METHOD BLANK: 1630827
Matrix: Water
Associated Lab Samples: 40162323001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	12/18/17 11:08	
2-Methylnaphthalene	ug/L	<0.0049	0.024	12/18/17 11:08	
Acenaphthene	ug/L	<0.0061	0.030	12/18/17 11:08	
Acenaphthylene	ug/L	<0.0050	0.025	12/18/17 11:08	
Anthracene	ug/L	<0.010	0.052	12/18/17 11:08	
Benzo(a)anthracene	ug/L	<0.0076	0.038	12/18/17 11:08	
Benzo(a)pyrene	ug/L	<0.011	0.053	12/18/17 11:08	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	12/18/17 11:08	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	12/18/17 11:08	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	12/18/17 11:08	
Chrysene	ug/L	<0.013	0.065	12/18/17 11:08	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	12/18/17 11:08	
Fluoranthene	ug/L	<0.011	0.053	12/18/17 11:08	
Fluorene	ug/L	<0.0080	0.040	12/18/17 11:08	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	12/18/17 11:08	
Naphthalene	ug/L	<0.018	0.092	12/18/17 11:08	
Phenanthrene	ug/L	<0.014	0.069	12/18/17 11:08	
Pyrene	ug/L	0.0084J	0.038	12/18/17 11:08	
2-Fluorobiphenyl (S)	%	56	35-84	12/18/17 11:08	
Terphenyl-d14 (S)	%	78	10-129	12/18/17 11:08	

LABORATORY CONTROL SAMPLE: 1630828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	68	39-83	
2-Methylnaphthalene	ug/L	2	1.3	67	38-86	
Acenaphthene	ug/L	2	1.2	62	35-85	
Acenaphthylene	ug/L	2	1.3	66	31-88	
Anthracene	ug/L	2	1.6	81	47-104	
Benzo(a)anthracene	ug/L	2	1.5	77	36-105	
Benzo(a)pyrene	ug/L	2	1.6	80	69-117	
Benzo(b)fluoranthene	ug/L	2	1.5	75	54-107	
Benzo(g,h,i)perylene	ug/L	2	0.83	42	13-86	
Benzo(k)fluoranthene	ug/L	2	1.5	75	63-128	
Chrysene	ug/L	2	1.7	87	69-150	
Dibenz(a,h)anthracene	ug/L	2	0.78	39	10-87	
Fluoranthene	ug/L	2	1.8	90	57-103	
Fluorene	ug/L	2	1.4	69	38-85	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	70	40-111	
Naphthalene	ug/L	2	1.2	59	39-82	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

LABORATORY CONTROL SAMPLE: 1630828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.5	74	46-96	
Pyrene	ug/L	2	1.6	81	57-110	
2-Fluorobiphenyl (S)	%			59	35-84	
Terphenyl-d14 (S)	%			80	10-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1630829 1630830

Parameter	Units	40162323001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.090	2	2	1.3	1.4	61	65	27-86	6	29	
2-Methylnaphthalene	ug/L	0.090	2	2	1.3	1.3	59	62	30-86	4	35	
Acenaphthene	ug/L	0.017J	2	2	1.1	1.1	54	56	28-85	2	29	
Acenaphthylene	ug/L	<0.0049	2	2	1.1	1.1	55	58	27-88	3	29	
Anthracene	ug/L	<0.010	2	2	1.3	1.2	64	60	38-104	7	35	
Benzo(a)anthracene	ug/L	<0.0074	2	2	0.92	0.88	46	44	10-105	5	28	
Benzo(a)pyrene	ug/L	<0.010	2	2	0.86	0.88	43	44	10-130	2	26	
Benzo(b)fluoranthene	ug/L	<0.0056	2	2	0.88	0.91	44	46	10-115	3	25	
Benzo(g,h,i)perylene	ug/L	<0.0066	2	2	0.45	0.43	22	22	10-87	3	42	
Benzo(k)fluoranthene	ug/L	<0.0074	2	2	0.84	0.86	42	43	10-133	2	25	
Chrysene	ug/L	<0.013	2	2	1.3	1.4	67	71	17-150	5	24	
Dibenz(a,h)anthracene	ug/L	<0.0098	2	2	0.40	0.38	20	19	10-89	4	49	
Fluoranthene	ug/L	<0.010	2	2	1.4	1.4	68	69	41-103	0	32	
Fluorene	ug/L	<0.0078	2	2	1.1	1.2	57	59	32-85	2	28	
Indeno(1,2,3-cd)pyrene	ug/L	<0.017	2	2	0.55	0.56	28	28	10-111	2	37	
Naphthalene	ug/L	0.14	2	2	1.2	1.3	52	57	23-88	7	28	
Phenanthrene	ug/L	0.039J	2	2	1.2	1.2	57	57	33-96	1	25	
Pyrene	ug/L	0.013J	2	2	1.3	1.3	66	67	38-110	1	28	
2-Fluorobiphenyl (S)	%						51	55	35-84			
Terphenyl-d14 (S)	%						56	58	10-129			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2117 MCC HOLDING INC-BURNHAM C
Pace Project No.: 40162323

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40162323001	**121117001**	EPA 3010	277102	EPA 6020	277205
40162323002	**121117002**	EPA 3010	277102	EPA 6020	277205
40162323003	**121117003**	EPA 3010	277102	EPA 6020	277205
40162323004	**121117004**	EPA 3010	277102	EPA 6020	277205
40162323001	**121117001**	EPA 3510	277342	EPA 8270 by HVI	277402
40162323002	**121117002**	EPA 3510	277103	EPA 8270 by HVI	277166
40162323003	**121117003**	EPA 3510	277103	EPA 8270 by HVI	277166
40162323004	**121117004**	EPA 3510	277103	EPA 8270 by HVI	277166

CoC# 121117-001

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

Custody Seal # 2117-1211-001

4016 2323

Page 15 of 16

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Natural Resource Technology
Branch/Location:	Milwaukee WI
Project Contact:	Mark Walter
Phone:	(414) 837-3563
Project Number:	2117
Project Name:	MCC Holdings Inc - Burnham Canal
Project State:	Wisconsin
Sampled By (Print):	Eric Plante
Sampled By (Sign):	Eric Plante
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☒ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested: 6020 Metals (Cu+Pb)	PAH 8270	RCRA Metals + Cu Total
					Y/N	Pick Letter	Y	N	N
							D	A	D
001	121117001	12-11-17	1117	GW			X	X	
002	121117002		1216				X	X	
003	121117003		1221				X	X	
004	121117004		1331				X	X	
005	121117005		1345					X	X

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	3-250ml pp 6-100ml ag*	
	1-250ml pp 2-100ml ag*	

EDP 12-11-17

EDP 12-11-17

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Eric Plante	12-12-17 1400	DSDHS pace	12/13/17 1020

PACE Project No.: 40162323

Receipt Temp = 1.0 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present; Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: **WO# : 40162323**

40162323

Client Name: MRT

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 12/13/17
Initials: RS

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr): RS 12/13/17	☑Yes	~~☐No~~	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests RS 12/13/17	☑Yes	☐No	~~☐N/A~~	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☑Yes	☐No	☐N/A	13. ☑ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☑No		Initial when completed RS / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14.
Trip Blank Present:	☐Yes	☑No	☐N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: RS **Date:** 12-13-17

Attachment 5 – WDNR Form 4400-237 Technical Assistance Request

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

Notice: Use this form to request **a written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

"Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

"Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

"Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

"Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This from should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do not use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf"

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Section 1. Contact and Recipient Information

Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name	First	MI	Organization/ Business Name		
Spigel	Jon		Miller Compressing Company		
Mailing Address			City	State	ZIP Code
1640 West Bruce Street			Milwaukee	WI	53204
Phone # (include area code)	Fax # (include area code)		Email		
(414) 290-6520			Jon.Spigel@altertrading.com		

The requester listed above: (select all that apply)

- ☐ Is currently the owner
- ☐ Is considering selling the Property
- ☐ Is renting or leasing the Property
- ☐ Is considering acquiring the Property
- ☐ Is a lender with a mortgagee interest in the Property
- ☒ Other. Explain the status of the Property with respect to the applicant:

Miller Compressing Company is the Responsible Party for BRRTS Site 02-41-552940. Alter Trading Corporation is the owner of the 1640 West Bruce Street property.

Contact Information (to be contacted with questions about this request)

☐ Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name		
Walter	Mark	D	O'Brien & Gere Engineers, Inc.		
Mailing Address			City	State	ZIP Code
234 W. Florida St., Fifth Floor			Milwaukee	WI	53204
Phone # (include area code)	Fax # (include area code)		Email		
(414) 837-3563	(414) 837-3608		Mark.Walter@obg.com		

Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name		
Walter	Mark	D	O'Brien & Gere Engineers, Inc.		
Mailing Address			City	State	ZIP Code
234 W. Florida St., Fifth Floor			Milwaukee	WI	53204
Phone # (include area code)	Fax # (include area code)		Email		
(414) 837-3563	(414) 837-3608		Mark.Walter@obg.com		

Attorney (if applicable)

Contact Last Name	First	MI	Organization/ Business Name		
Thimke	Mark	A	Foley & Lardner LLP		
Mailing Address			City	State	ZIP Code
777 East Wisconsin Avenue			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(414) 297-5832	(414) 297-4900		mthimke@foley.com		

Property Owner (if different from requester)

Contact Last Name	First	MI	Organization/ Business Name		
Schlichtholz	Sarah		Alter Trading Corporation		
Mailing Address			City	State	ZIP Code
700 Office Parkway			St. Louis	MO	63141
Phone # (include area code)	Fax # (include area code)		Email		
(314) 872-2406	(314) 872-2420		sarah.schlichtholz@altertrading.com		

Section 2. Property Information

Property Name			FID No. (if known)	
Burnham Canal			241213720	
BRRTS No. (if known)	Parcel Identification Number			
02-41-552940	4269988110			
Street Address	City		State	ZIP Code
1640 West Bruce Street	Milwaukee		WI	53204
County	Municipality where the Property is located	Property is composed of:		Property Size Acres
Milwaukee	◉ City ○ Town ○ Village of	◉ Single tax parcel ○ Multiple tax parcels		13

1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

◉ No ○ Yes

Date requested by: _____

Reason:

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

◉ No. **Include the fee that is required for your request in Section 3, 4 or 5.**

○ Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:
Section 3. Technical Assistance or Post-Closure Modifications;
Section 4. Liability Clarification; or Section 5. Specialized Agreement.

Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: [**Numbers in brackets are for WI DNR Use]**

☒ No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of $350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.

☐ Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of $700.**

☐ Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of $1050.**

☐ Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of $1050.**

☐ Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of $1050.**

☐ Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of $1050.**

☐ Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of $350**

☐ Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of $425.**

☐ Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of $425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

☐ Schedule a Technical Assistance Meeting - **Include a fee of $700.**

☐ Hazardous Waste Determination - **Include a fee of $700**.

☐ Other Technical Assistance - **Include a fee of $700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

☐ Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of $1050, and:**

☐ Include a fee of $300 for sites with residual soil contamination; and

☐ Include a fee of $350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form.

Section 5. Request for a Specialized Agreement

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: dnr.wi.gov/topic/Brownfields/lgu.html#tabx4.

☐ Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]

- ❖ **Include a fee of $700, and the information listed below:**

(1) Phase I and II Environmental Site Assessment Reports,
(2) a copy of the Property deed with the correct legal description; and,
(3) a draft 75.105 agreement based on the DNR's model (dnr.wi.gov/topic/brownfields/documents/mod75-105agrmt.pdf).

☐ Agreement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666]

- ❖ **Include a fee of $700, and the information listed below:**

(1) Phase I and II Environmental Site Assessment Reports,
(2) a copy of the Property deed with the correct legal description; and,
(3) a draft 75.105 agreement based on the DNR's model (dnr.wi.gov/topic/brownfields/documents/mod75-106agrmt.pdf).

☐ Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630]

- ❖ **Include a fee of $1400, and the information listed below:**

(1) a draft schedule for remediation; and,
(2) the name, mailing address, phone and email for each party to the agreement.

Section 6. Other Information Submitted

Identify all materials that are included with this request.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

☐ Phase I Environmental Site Assessment Report - Date: _____

☐ Phase II Environmental Site Assessment Report - Date: _____

☐ Legal Description of Property (required for all liability requests and specialized agreements)

☒ Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

☒ Groundwater ☐ Soil ☐ Sediment ☐ Other medium - Describe: _____

Date of Collection: 12/11/2017

☐ A copy of the closure letter and submittal materials

☐ Draft tax cancellation agreement

☐ Draft agreement for assignment of tax foreclosure judgment

☒ Other report(s) or information - Describe: Groundwater Sampling Report

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

◯ Yes - Date (if known): _____
◯ No

Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at: dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf.

Section 7. Certification by the Person who completed this form

☐ I am the person submitting this request (requester)

☒ I prepared this request for: Jon Spigel

Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

Mark D. Walter, PE

Digitally signed by Mark D. Walter, PE
DN: cn=Mark D. Walter, PE, o=O'Brien and Gere Engineers, Inc., ou=Environmental Science and Remediation, email=Mark.Walter@obg.com, c=US
Date: 2018.12.12 14:23:25 -06'00'

5/21/2018

Signature | Date Signed

Environmental Engineer

(414) 837-3563

Title | Telephone Number (include area code)

Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a DNR regional brownfields specialist with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf.

DNR NORTHERN REGION
Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313

DNR SOUTH CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

DNR SOUTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee WI 53212

DNR WEST CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702

Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer	Comments		
Fee Enclosed? ◯ Yes ◯ No	Fee Amount $	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		