

OBG | There's a way

May 21, 2018

**Margaret Brunette**

Wisconsin Department of Natural Resources  
2300 N. Dr. Martin Luther King Jr. Dr.  
Milwaukee, WI 53213

[Margaret.brunette@wisconsin.gov](mailto: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 11<sup>th</sup> 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 me at 414-837-3563.

Sincerely,  
O'BRIEN & GERE ENGINEERS, INC.

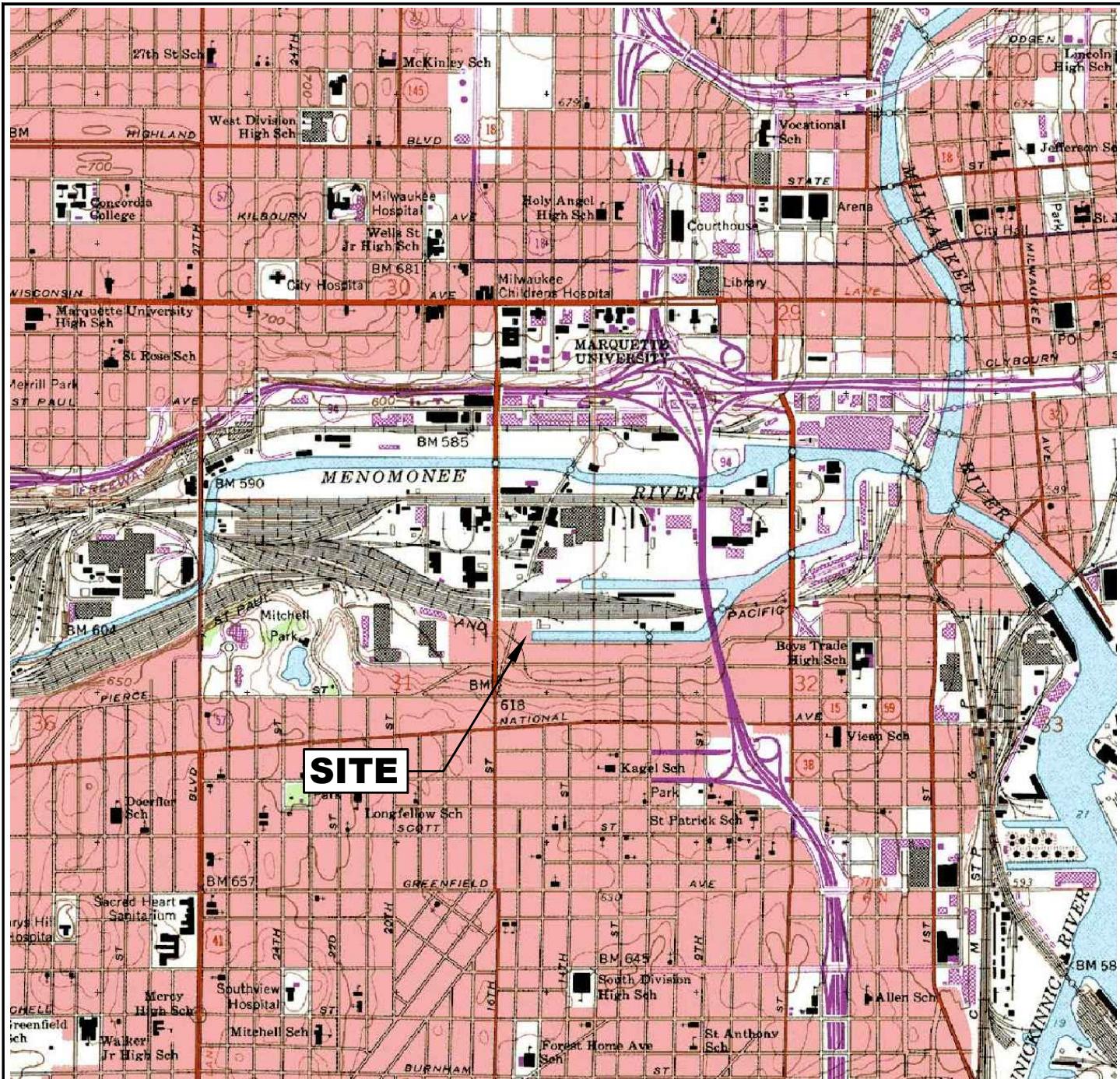


**Mark D. Walter, PE**  
Environmental Engineer

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



PROJECT NO.  
2117.8.1

DRAWING NO.  
2117-8.1-A01

FIGURE NO.  
1

## SITE LOCATION MAP

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



NATURAL  
RESOURCE  
TECHNOLOGY



PROJECT NO: 2117/8.1

FIGURE NO: 2

**Natural Resource Technology**  
AN OBG COMPANY

### PROPOSED SCREENING WELL LOCATIONS

BURNHAM CANAL SUPERFUND ALTERNATIVE SITE  
MILLER COMPRESSING COMPANY  
MILWAUKEE, WISCONSIN

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



## Tables

Groundwater Analytical Table  
Burnham Canal, Milwaukee

Sample Location	Sample ID	Sample Date	Elevation (NAVD 88, Feet)						Dissolved Metals (ug/L)		PAHs (ug/L)																	
			Ground Surface	Top of Casing	Depth to Water (Below Top of Casing)	Depth to Water (Below Ground Surface)	Water Level	Copper	Lead	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benz(a)pyrene	Benz(b)fluoranthene	Benz(c)phenanthrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs	
			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	10	NS	50	NS	
			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	100	NS	250	NS	
MW-1	WI Groundwater PAL:	NA																										
	WI Groundwater ES:	NA																										
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	<0.013	<0.010	0.011 J	<0.0080	<0.018	0.10	0.10	0.14	0.024 J	0.009 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	0.14	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			2.74	3.10	580.58	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
MW-2	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			2.74	3.10	580.58	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	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	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

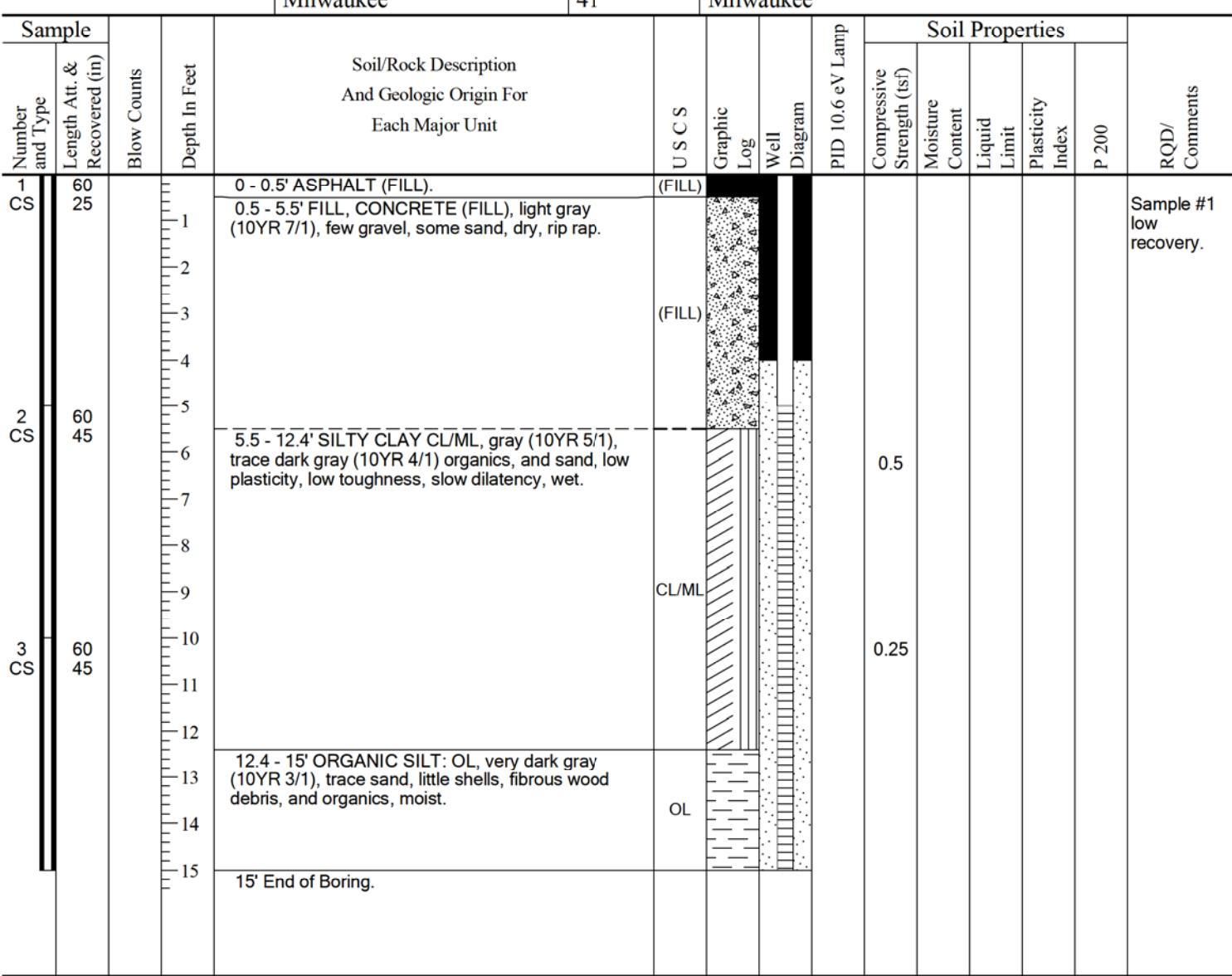
WI = Wisconsin

**Attachment 1 – Soil  
Boring Logs**

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

Page 1 of 1

Facility/Project Name <b>MCC Holding, Inc.- Burnham Canal</b>			License/Permit/Monitoring Number		Boring Number <b>MW-1</b>
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Tony Kapugi On-Site Environmental Services, Inc.</b>			Date Drilling Started <b>10/27/2017</b>	Date Drilling Completed <b>10/27/2017</b>	Drilling Method <b>hollow stem auger</b>
WI Unique Well No. <b>VR923</b>	DNR Well ID No. <b>MW-1</b>	Common Well Name	Final Static Water Level Feet (NAVD88)	Surface Elevation 584.2 Feet (NAVD88)	Borehole Diameter inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or	Boring Location <input checked="" type="checkbox"/>	N, E S/C/N	Lat <b>43° 1' 34.428"</b>	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> S	<input type="checkbox"/> E <input type="checkbox"/> W
State Plane 1/4 of	1/4 of Section ,	T N, R	Long <b>87° 55' 52.369"</b>	Feet	Feet
Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>		



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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Page 1 of 1

Facility/Project Name <b>MCC Holding, Inc. - Burnham Canal</b>			License/Permit/Monitoring Number			Boring Number <b>MW-2</b>								
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Tony Kapugi On-Site Environmental Services, Inc.</b>			Date Drilling Started <b>10/27/2017</b>		Date Drilling Completed <b>10/27/2017</b>		Drilling Method <b>hollow stem auger</b>							
WI Unique Well No. <b>VR921</b>	DNR Well ID No. <b>MW-2</b>	Common Well Name	Final Static Water Level Feet (NAVD88)	Surface Elevation <b>583.7 Feet (NAVD88)</b>		Borehole Diameter inches								
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/>			Lat <b>43° 1' 34.902 "</b>	Local Grid Location										
State Plane N, E S/C/N 1/4 of 1/4 of Section , T N, R			Long <b>87° 55' 52.473 "</b>	<input type="checkbox"/> N Feet <input type="checkbox"/> S		<input type="checkbox"/> E Feet <input type="checkbox"/> W								
Facility ID		County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>										
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit		U S C S	Graphic Log	Well Diagram	Soil Properties				P 200	RQD/ Comments
Number and Type	Length Att. & Recovered (in)								PID 10.6 eV Lamp	Compressive Strength (tsf)	Moisture Content	Liquid Limit		
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								
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 dilatancy, 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.

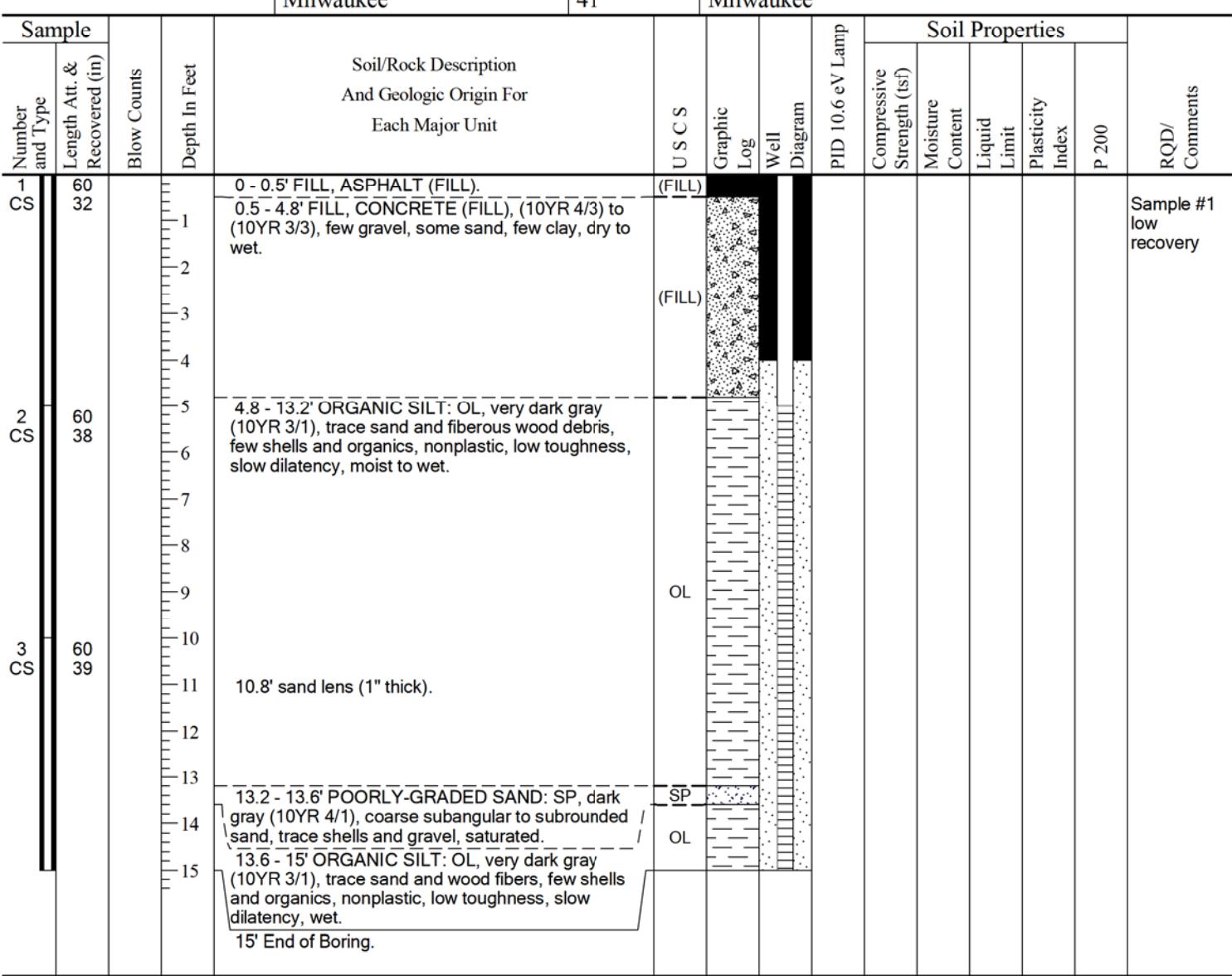
Signature 	Firm <b>Natural Resource Technology</b> 234 W. Florida Street, Floor 5, Milwaukee, WI 53204	Tel: (414) 837-3607 Fax: (414) 837-3608
--	--	--

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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Page 1 of 1

Facility/Project Name <b>MCC Holding, Inc. - Burnham Canal</b>			License/Permit/Monitoring Number		Boring Number <b>MW-3</b>
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Tony Kapugi On-Site Environmental Services, Inc.</b>			Date Drilling Started <b>10/27/2017</b>	Date Drilling Completed <b>10/27/2017</b>	Drilling Method <b>hollow stem auger</b>
WI Unique Well No. <b>VR922</b>	DNR Well ID No. <b>MW-3</b>	Common Well Name	Final Static Water Level Feet (NAVD88)	Surface Elevation <b>583.6 Feet (NAVD88)</b>	Borehole Diameter inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or State Plane 1/4 of	Boring Location <input checked="" type="checkbox"/> N, E S/C/N 1/4 of Section , T N, R	Lat <b>43° 1' 35.462"</b> Long <b>87° 55' 52.467"</b>	Local Grid Location <input type="checkbox"/> N Feet <input type="checkbox"/> S	<input type="checkbox"/> E Feet <input type="checkbox"/> W	
Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>		



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

Signature	Firm <b>Natural Resource Technology</b> 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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

**Attachment 2 –  
Monitoring Well  
Construction Forms**

Route To:

Watershed/Wastewater   
Remediation/Redevelopment   
Other

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

Facility/Project Name <b>MCC Holding, Inc.- Burnham Canal</b>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <b>MW-1</b>
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Lat. <u>43° 1'</u> Long. <u>87° 55' 52.4"</u> or St. Plane _____ ft. N, _____ ft. E. S/C/N	Wis. Unique Well No. <u>VR923</u> DNR Well Number
Facility ID		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____	Date Well Installed <u>10/27/2017</u>
Type of Well Well Code 11/mw		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known Gov. Lot Number	Well Installed By: (Person's Name and Firm) <u>Tony Kapugi</u>
Distance from Waste/ Source ft.	Enf. Stds. Apply <input type="checkbox"/>	On-Site Environmental Services, Inc.	
A. Protective pipe, top elevation 584.17 ft. (NAVD88)		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
B. Well casing, top elevation 583.74 ft. (NAVD88)		2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/> ....	
C. Land surface elevation 584.2 ft. (NAVD88)		d. Additional protection? If yes, describe: _____	
D. Surface seal, bottom 584.2 ft. (NAVD88) or 0.0 ft.		3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3.0 Concrete <input type="checkbox"/> 0.1 Other <input type="checkbox"/> ....	
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input checked="" type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3.0 Sand <input type="checkbox"/> .... Other <input type="checkbox"/> ....	
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3.3 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3.5 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 3.1 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5.0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input checked="" type="checkbox"/> 0.8	
14. Drilling method used: Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input checked="" type="checkbox"/> 4.1 Other <input type="checkbox"/> ....		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3.3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3.2 c. _____ Other <input type="checkbox"/> ....	
15. Drilling fluid used: Water <input type="checkbox"/> 0.2 Air <input type="checkbox"/> 0.1 Drilling Mud <input type="checkbox"/> 0.3 None <input checked="" type="checkbox"/> 9.9		7. Fine sand material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc.</u>	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Describe _____		8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint Sand and Gravel</u>	
17. Source of water (attach analysis, if required): n/a		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2.4 Other <input type="checkbox"/> ....	
E. Bentonite seal, top 584.2 ft. (NAVD88) or 0.0 ft.	F. Fine sand, top 580.2 ft. (NAVD88) or 4.0 ft.	10. Screen material: a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/> ....	
G. Filter pack, top 579.2 ft. (NAVD88) or 5.0 ft.	H. Screen joint, top 579.2 ft. (NAVD88) or 5.0 ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.	
I. Well bottom 569.2 ft. (NAVD88) or 15.0 ft.	J. Filter pack, bottom 568.7 ft. (NAVD88) or 15.5 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1.4 Other <input type="checkbox"/> ....	
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.		

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.

Route To:

Watershed/Wastewater   
Remediation/Redevelopment   
Other

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

Facility/Project Name <b>MCC Holding, Inc.- Burnham Canal</b>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <b>MW-2</b>
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Lat. <u>43° 1'</u> Long. <u>87° 55' 52.5"</u> or St. Plane _____ ft. N, _____ ft. E. S/C/N	Wis. Unique Well No. <u>VR921</u> DNR Well Number
Facility ID		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____	Date Well Installed <u>10/27/2017</u>
Type of Well Well Code 11/mw		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known Gov. Lot Number	Well Installed By: (Person's Name and Firm) <u>Tony Kapugi</u>
Distance from Waste/ Source ft.	Enf. Stds. Apply <input type="checkbox"/>	On-Site Environmental Services, Inc.	
A. Protective pipe, top elevation 583.68 ft. (NAVD88)		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
B. Well casing, top elevation 583.32 ft. (NAVD88)		2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/> ....	
C. Land surface elevation 583.7 ft. (NAVD88)		d. Additional protection? If yes, describe: _____	
D. Surface seal, bottom 583.7 ft. (NAVD88) or 0.0 ft.		3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3.0 Concrete <input type="checkbox"/> 0.1 Other <input type="checkbox"/> ....	
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3.0 Sand <input type="checkbox"/> .... Other <input type="checkbox"/> ....	
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3.3 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3.5 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 3.1 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5.0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input checked="" type="checkbox"/> 0.8	
14. Drilling method used: Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input checked="" type="checkbox"/> 4.1 Other <input type="checkbox"/> ....		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3.3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3.2 c. _____ Other <input type="checkbox"/> ....	
15. Drilling fluid used: Water <input type="checkbox"/> 0.2 Air <input type="checkbox"/> 0.1 Drilling Mud <input type="checkbox"/> 0.3 None <input checked="" type="checkbox"/> 9.9		7. Fine sand material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc.</u>	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Describe _____		8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint Sand and Gravel</u>	
17. Source of water (attach analysis, if required): n/a		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2.4 Other <input type="checkbox"/> ....	
E. Bentonite seal, top 583.7 ft. (NAVD88) or 0.0 ft.	F. Fine sand, top 579.7 ft. (NAVD88) or 4.0 ft.	10. Screen material: a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/> ....	
G. Filter pack, top 578.7 ft. (NAVD88) or 5.0 ft.	H. Screen joint, top 578.7 ft. (NAVD88) or 5.0 ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.	
I. Well bottom 568.7 ft. (NAVD88) or 15.0 ft.	J. Filter pack, bottom 568.2 ft. (NAVD88) or 15.5 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1.4 Other <input type="checkbox"/> ....	
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.		

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.

Route To:

Watershed/Wastewater   
Remediation/Redevelopment   
Other

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

Facility/Project Name <b>MCC Holding, Inc.- Burnham Canal</b>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <b>MW-3</b>
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Lat. <u>43°</u> <u>1'</u> Long. <u>87°</u> <u>55'</u> Well Location <input checked="" type="checkbox"/> or St. Plane _____ ft. N. _____ ft. E. S/C/N	Wis. Unique Well No. <u>VR922</u> DNR Well Number
Facility ID		Section Location of Waste/Source 1/4 of <u>Sec.</u> , T. <u>N, R.</u> <input type="checkbox"/> E <input type="checkbox"/> W	Date Well Installed <u>10/27/2017</u>
Type of Well Well Code 11/mw		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient Gov. Lot Number d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) <u>Tony Kapugi</u>
Distance from Waste/ Source ft.	Enf. Stds. Apply <input type="checkbox"/>		On-Site Environmental Services, Inc.
A. Protective pipe, top elevation	583.60 ft. (NAVD88)	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
B. Well casing, top elevation	583.14 ft. (NAVD88)	2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/> ....	
C. Land surface elevation	583.6 ft. (NAVD88)	d. Additional protection? If yes, describe: _____	
D. Surface seal, bottom	583.6 ft. (NAVD88) or 0.0 ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3.0 Concrete <input type="checkbox"/> 0.1 Other <input type="checkbox"/> ....	
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3.0 Sand <input type="checkbox"/> .... Other <input type="checkbox"/> ....	
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3.3 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3.5 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 3.1 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5.0 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input checked="" type="checkbox"/> 0.8	
14. Drilling method used: Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input checked="" type="checkbox"/> 4.1 Other <input type="checkbox"/> ....		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3.3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3.2 c. _____ Other <input type="checkbox"/> ....	
15. Drilling fluid used: Water <input type="checkbox"/> 0.2 Air <input type="checkbox"/> 0.1 Drilling Mud <input type="checkbox"/> 0.3 None <input checked="" type="checkbox"/> 9.9		7. Fine sand material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc.</u>	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Describe _____		8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint Sand and Gravel</u>	
17. Source of water (attach analysis, if required):  n/a		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2.4 Other <input type="checkbox"/> ....	
E. Bentonite seal, top	583.6 ft. (NAVD88) or 0.0 ft.	10. Screen material: Schedule 40 PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/> ....	
F. Fine sand, top	579.6 ft. (NAVD88) or 4.0 ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> 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.		

The diagram illustrates a vertical monitoring well borehole. It shows the following layers from top to bottom: 
 

- A:** Protective pipe (top elevation at 583.60 ft NAVD88).
- B:** Well casing (top elevation at 583.14 ft NAVD88).
- C:** Land surface elevation (583.6 ft NAVD88).
- D:** Surface seal (bottom elevation at 583.6 ft NAVD88 or 0.0 ft).
- E:** Bentonite seal, top (at 583.6 ft NAVD88 or 0.0 ft).
- F:** Fine sand, top (at 579.6 ft NAVD88 or 4.0 ft).
- G:** Filter pack, top (at 578.6 ft NAVD88 or 5.0 ft).
- H:** Screen joint, top (at 578.6 ft NAVD88 or 5.0 ft).
- I:** Well bottom (at 568.6 ft NAVD88 or 15.0 ft).
- J:** Filter pack, bottom (at 568.1 ft NAVD88 or 15.5 ft).
- K:** Borehole, bottom (at 568.1 ft NAVD88 or 15.5 ft).
- L:** Borehole, diameter (inches).
- M:** O.D. well casing (inches).
- N:** I.D. well casing (inches).

 The borehole is surrounded by soil layers, and various components like protective cover pipe, annular space seal, and fine sand material are shown at different depths.

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.

**Attachment 3 –  
Monitoring Well  
Development Forms**

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

Facility/Project Name <u>MCC Holding, Inc. - Burnham Canal</u>	County <u>Milwaukee</u>	Well Name <u>MW-1</u>
Facility License, Permit or Monitoring Number	County Code <u>41</u>	Wis. Unique Well Number <u>VR923</u>

1. Can this well be purged dry?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Before Development      After Development		
2. Well development method:	<input checked="" type="checkbox"/> 4 1 <input type="checkbox"/> 6 1 <input type="checkbox"/> 4 2 <input type="checkbox"/> 6 2 <input type="checkbox"/> 7 0 <input type="checkbox"/> 2 0 <input type="checkbox"/> 1 0 <input type="checkbox"/> 5 1 <input type="checkbox"/> 5 0 <input type="checkbox"/> other _____	11. Depth to Water (from top of well casing)	a. 1.91 ft.	4.38 ft.
3. Time spent developing well	94 min.	Date	b. 10/30/2017	10/30/2017
4. Depth of well (from top of well casing)	15.0 ft.	Time	c. 10:07 <input type="checkbox"/> p.m.	02:20 <input checked="" type="checkbox"/> p.m.
5. Inside diameter of well	2.07 in.	12. Sediment in well bottom	0.0 inches	0.0 inches
6. Volume of water in filter pack and well casing	10.0168 gal.	13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>dark gray brown</u>	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>light brown to clear</u>
7. Volume of water removed from well	44.0 gal.	Fill in if drilling fluids were used and well is at solid waste facility:		
8. Volume of water added (if any)	0.0 gal.	14. Total suspended solids	mg/l	mg/l
9. Source of water added	<u>not applicable</u>	15. COD	mg/l	mg/l
10. Analysis performed on water added? (If yes, attach results)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	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	I hereby certify that the above information is true and correct to the best of my knowledge.   Signature: <u>Eric Plante</u>
Name: <u>MCC Holding, LLC.</u>	
Firm: <u>MCC Holding, LLC.</u>	
Street: <u>1004 E. Ogden Ave.</u>	
City/State/Zip: <u>Milwaukee WI 53202</u>	
Firm: <u>Natural Resource Technology</u>	

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

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

Facility/Project Name <u>MCC Holding, Inc. - Burnham Canal</u>	County <u>Milwaukee</u>	Well Name <u>MW-2</u>
Facility License, Permit or Monitoring Number	County Code <u>41</u>	Wis. Unique Well Number <u>VR921</u>

1. Can this well be purged dry?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Before Development      After Development		
2. Well development method:	<input checked="" type="checkbox"/> 4 1 <input type="checkbox"/> 6 1 <input type="checkbox"/> 4 2 <input type="checkbox"/> 6 2 <input type="checkbox"/> 7 0 <input type="checkbox"/> 2 0 <input type="checkbox"/> 1 0 <input type="checkbox"/> 5 1 <input type="checkbox"/> 5 0 <input type="checkbox"/> other _____	11. Depth to Water (from top of well casing)	a. 2.47 ft.	7.80 ft.
3. Time spent developing well	79 min.	Date	b. 10/30/2017	10/30/2017
4. Depth of well (from top of well casing)	14.7 ft.	Time	c. 11:06 <input type="checkbox"/> p.m.	02:38 <input checked="" type="checkbox"/> p.m.
5. Inside diameter of well	2.07 in.	12. Sediment in well bottom	0.0 inches	0.0 inches
6. Volume of water in filter pack and well casing	9.8706 gal.	13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>dark gray brown</u>	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>light brown to clear</u>
7. Volume of water removed from well	27.0 gal.	Fill in if drilling fluids were used and well is at solid waste facility:		
8. Volume of water added (if any)	0.0 gal.	14. Total suspended solids	mg/l	mg/l
9. Source of water added	<u>not applicable</u>	15. COD	mg/l	mg/l
10. Analysis performed on water added? (If yes, attach results)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	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	I hereby certify that the above information is true and correct to the best of my knowledge.   Signature: <u>Eric Plante</u>
Name: <u>MCC Holding, LLC.</u>	
Firm: <u>MCC Holding, LLC.</u>	
Street: <u>1004 E. Ogden Ave.</u>	
City/State/Zip: <u>Milwaukee WI 53202</u>	
Firm: <u>Natural Resource Technology</u>	

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

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

Facility/Project Name <u>MCC Holding, Inc. - Burnham Canal</u>	County <u>Milwaukee</u>	Well Name <u>MW-3</u>
Facility License, Permit or Monitoring Number	County Code <u>41</u>	Wis. Unique Well Number <u>VR922</u>

1. Can this well be purged dry?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Before Development      After Development		
2. Well development method: surged with bailer and bailed surged with bailer and pumped surged with block and bailed surged with block and pumped surged with block, bailed, and pumped compressed air bailed only pumped only pumped slowly other _____	<input checked="" type="checkbox"/> 4 1 <input type="checkbox"/> 6 1 <input type="checkbox"/> 4 2 <input type="checkbox"/> 6 2 <input type="checkbox"/> 7 0 <input type="checkbox"/> 2 0 <input type="checkbox"/> 1 0 <input type="checkbox"/> 5 1 <input type="checkbox"/> 5 0 <input type="checkbox"/> _____	11. Depth to Water (from top of well casing)	a. 2.33 ft.	2.54 ft.
3. Time spent developing well	81 min.	Date	b. 10/30/2017	10/30/2017
4. Depth of well (from top of well casing)	14.7 ft.	Time	c. 11:58 <input type="checkbox"/> p.m.	<input type="checkbox"/> a.m. 03:06 <input checked="" type="checkbox"/> p.m.
5. Inside diameter of well	2.07 in.	12. Sediment in well bottom	0.0 inches	0.0 inches
6. Volume of water in filter pack and well casing	9.8978 gal.	13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>dark gray brown</u>	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>light brown to clear</u>
7. Volume of water removed from well	49.0 gal.	Fill in if drilling fluids were used and well is at solid waste facility:		
8. Volume of water added (if any)	0.0 gal.	14. Total suspended solids	mg/l	mg/l
9. Source of water added	<u>not applicable</u>	15. COD	mg/l	mg/l
10. Analysis performed on water added? (If yes, attach results)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	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: <u>MCC Holding, LLC.</u>  Street: <u>1004 E. Ogden Ave.</u>  City/State/Zip: <u>Milwaukee WI 53202</u>	I hereby certify that the above information is true and correct to the best of my knowledge.  Signature:   Print Name: <u>Eric Plante</u>  Firm: <u>Natural Resource Technology</u>
--	---

**Attachment 4 –  
Laboratory Analytical  
Reports**



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



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

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

---

### Green Bay Certification IDs

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

---

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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
<b>6020 MET ICPMS</b>	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
<b>8270 MSSV PAH by HVI</b>	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		
<b>Surrogates</b>									
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
<b>6020 MET ICPMS</b>	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	
<b>8270 MSSV PAH by HVI</b>	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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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
<b>8270 MSSV PAH by HVI</b>	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	
<b>Surrogates</b>									
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	
<b>Sample: 110917003</b>	<b>Lab ID: 40160686003</b>	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
<b>6020 MET ICPMS</b>	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	
<b>8270 MSSV PAH by HVI</b>	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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
<b>Surrogates</b>									
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
<b>6020 MET ICPMS</b>		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	
<b>8270 MSSV PAH by HVI</b>		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		
<b>Surrogates</b>									
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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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	Reporting	Analyzed	Qualifiers
		Result	Limit		
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	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Copper	ug/L	500	476	95	80-120	
Lead	ug/L	500	456	91	80-120	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 1614562 1614563

Parameter	Units	40160686004	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max
		Result	Spike	Spike							
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

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, LLC.

## 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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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 &amp; MATRIX SPIKE DUPLICATE: 1612884 1612885

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		
		40160686004	Spike Result	Spike Conc.	MS Result				RPD	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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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.

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### 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

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.





# Sample Condition Upon Receipt

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

**Client Name:** NRT

Project #:

**WO# : 40160686**



40160686

Courier:  FedEx  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: RT /Corr:

Biological Tissue is Frozen:  yes

no

Temp Blank Present:  yes  no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C.

Comments:

Person examining contents:

Date: 11/11/17

Initials: B3

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.		
Samples Arrived within Hold Time: - VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5. Date/Time:		
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.		
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.		
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.		
Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.		
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.		
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct		
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed	Lab Std #ID of preservative	Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.		
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 1 250 ml p

**Project Manager Review:** \_\_\_\_\_

Date: 11-13-17

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



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

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

---

### Green Bay Certification IDs

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

---

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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
<b>6020 MET ICPMS, Dissolved</b>	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
<b>8270 MSSV PAH by HVI</b>	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		
<b>Surrogates</b>									
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
<b>6020 MET ICPMS, Dissolved</b>	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	
<b>8270 MSSV PAH by HVI</b>	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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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
<b>8270 MSSV PAH by HVI</b> 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	
<b>Surrogates</b>									
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
<b>6020 MET ICPMS, Dissolved</b> 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	
<b>8270 MSSV PAH by HVI</b> 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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
<b>Surrogates</b>									
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
<b>6020 MET ICPMS, Dissolved</b>		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	
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<b>0.0087J</b>	ug/L	0.030	0.0061	1	12/14/17 08:15	12/18/17 20:21	83-32-9	
Acenaphthylene	<b>&lt;0.0050</b>	ug/L	0.025	0.0050	1	12/14/17 08:15	12/18/17 20:21	208-96-8	
Anthracene	<b>0.012J</b>	ug/L	0.052	0.010	1	12/14/17 08:15	12/18/17 20:21	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0076</b>	ug/L	0.038	0.0076	1	12/14/17 08:15	12/18/17 20:21	56-55-3	
Benzo(a)pyrene	<b>&lt;0.011</b>	ug/L	0.053	0.011	1	12/14/17 08:15	12/18/17 20:21	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0057</b>	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	<b>&lt;0.0068</b>	ug/L	0.034	0.0068	1	12/14/17 08:15	12/18/17 20:21	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0076</b>	ug/L	0.038	0.0076	1	12/14/17 08:15	12/18/17 20:21	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.065	0.013	1	12/14/17 08:15	12/18/17 20:21	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.010</b>	ug/L	0.050	0.010	1	12/14/17 08:15	12/18/17 20:21	53-70-3	
Fluoranthene	<b>0.013J</b>	ug/L	0.053	0.011	1	12/14/17 08:15	12/18/17 20:21	206-44-0	
Fluorene	<b>&lt;0.0080</b>	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	<b>&lt;0.018</b>	ug/L	0.088	0.018	1	12/14/17 08:15	12/18/17 20:21	193-39-5	
1-Methylnaphthalene	<b>0.0069J</b>	ug/L	0.030	0.0059	1	12/14/17 08:15	12/18/17 20:21	90-12-0	
2-Methylnaphthalene	<b>0.0056J</b>	ug/L	0.024	0.0049	1	12/14/17 08:15	12/18/17 20:21	91-57-6	
Naphthalene	<b>&lt;0.018</b>	ug/L	0.092	0.018	1	12/14/17 08:15	12/18/17 20:21	91-20-3	
Phenanthrene	<b>0.018J</b>	ug/L	0.069	0.014	1	12/14/17 08:15	12/18/17 20:21	85-01-8	
Pyrene	<b>0.012J</b>	ug/L	0.038	0.0076	1	12/14/17 08:15	12/18/17 20:21	129-00-0	
Total PAHs	<b>0.099</b>	ug/L			1	12/14/17 08:15	12/18/17 20:21		
<b>Surrogates</b>									
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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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	Reporting	Analyzed	Qualifiers
		Result	Limit		
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	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
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	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max
		Result	Spike	Spike							
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

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, LLC.

## 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

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, LLC.

## 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 &amp; MATRIX SPIKE DUPLICATE: 1629134 1629135

Parameter	Units	MS		MSD		MS Result	% Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		40162272003	Result	Spike Conc.	MS Result							
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	
Benz(a)anthracene	ug/L	<0.0081	2.2	2.1	1.1	1.0	48	49	10-105	3	28	
Benz(a)pyrene	ug/L	<0.011	2.2	2.1	1.3	1.2	58	59	10-130	1	26	
Benz(b)fluoranthene	ug/L	<0.0062	2.2	2.1	1.3	1.3	60	62	10-115	1	25	
Benz(g,h,i)perylene	ug/L	<0.0073	2.2	2.1	0.53	0.48	24	23	10-87	10	42	
Benz(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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## QUALITY CONTROL DATA

Project: 2117 MCC HOLDING INC-BURNHAM C

Pace Project No.: 40162323

QC Batch:	277342	Analysis Method:	EPA 8270 by HVI
QC Batch Method:	EPA 3510	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

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, LLC.

## 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 &amp; MATRIX SPIKE DUPLICATE: 1630829      1630830

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		40162323001	Result	Spike Conc.	MS Result							
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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## 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.

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### 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

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.





# Sample Condition Upon Receipt

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

Project #:

WO# : 40162323

Client Name: MRT

Courier:  FedEx  UPS  Client  Pace Other: CS Logistics

40162323

Tracking #:

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  noCustody Seal on Samples Present:  yes  no Seals intact:  yes  noPacking Material:  Bubble Wrap  Bubble Bags  None  OtherThermometer Used *N/A*Type of Ice:  Wet  Blue  Dry  None Samples on ice, cooling process has begunCooler Temperature Uncorr: *Reb* /Corr:Biological Tissue is Frozen:  yes noTemp Blank Present:  yes  no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C.

Comments:

Person examining contents:

Date: *12/13/17*Initials: *DS*

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Attachment 5 – WDNR  
Form 4400-237 Technical  
Assistance Request**

**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 form 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](http://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.

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

Form 4400-237 (R 9/15)

Page 2 of 6

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

The requester listed above: (select all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Is currently the owner  | <input type="checkbox"/> Is considering selling the Property   |
| <input type="checkbox"/> Is renting or leasing the Property  | <input type="checkbox"/> Is considering acquiring the Property |
| <input type="checkbox"/> Is a lender with a mortgagee interest in the Property                               |  |
| <input checked="" type="checkbox"/> 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)				<input type="checkbox"/> Select if same as requester	
Contact Last Name <b>Walter</b>	First <b>Mark</b>	MI <b>D</b>	Organization/ Business Name <b>O'Brien &amp; Gere Engineers, Inc.</b>		
Mailing Address <b>234 W. Florida St., Fifth Floor</b>		City <b>Milwaukee</b>		State <b>WI</b>	ZIP Code <b>53204</b>
Phone # (include area code) <b>(414) 837-3563</b>	Fax # (include area code) <b>(414) 837-3608</b>	Email <b>Mark.Walter@obg.com</b>			

### Environmental Consultant (if applicable)

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

### Attorney (if applicable)

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

### Property Owner (if different from requester)

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

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

Form 4400-237 (R 9/15)

Page 3 of 6

## Section 2. Property Information

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

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

Form 4400-237 (R 9/15)

Page 4 of 6

**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](http://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](http://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](http://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](http://dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf).

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

Form 4400-237 (R 9/15)

Page 5 of 6

**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.

5/21/2018

Signature

Environmental Engineer

Date Signed

(414) 837-3563

Title

Telephone Number (include area code)

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

Form 4400-237 (R 9/15)

Page 6 of 6

## 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

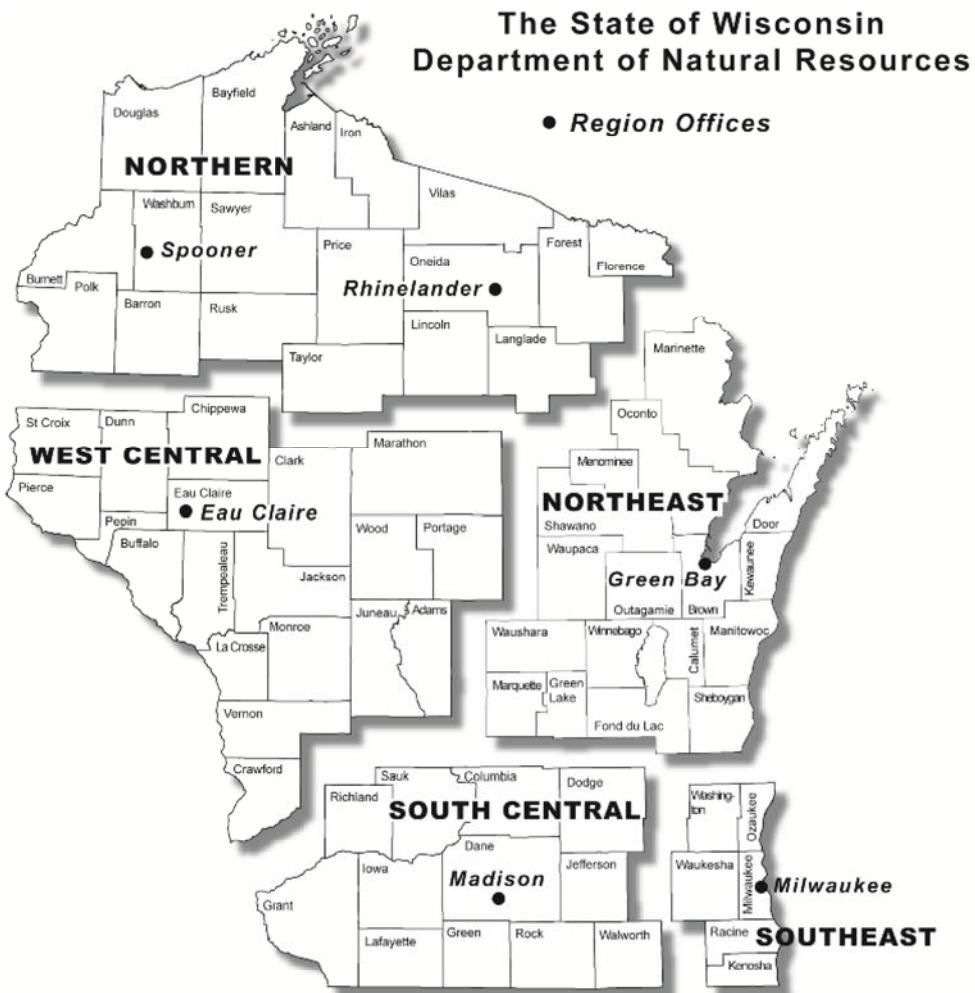
Attn: RR Program Assistant  
Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg WI 53711

### 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? <input type="radio"/> Yes <input type="radio"/> No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		