



November 4, 2019

MR DAVID MIELKE
CHEMDESIGN PRODUCTS INC
2 STANTON ST
MARINETTE WI 54143

Subject: Reported Contamination at the City of Marinette Waste Water Treatment Facility and Associated Fields Utilized for Landspreading of Biosolids Sludge; Marinette, WI DNR BRRTS Activities # 02-38-583856

Dear Mr. Mielke,

On June 12, 2018, the Department of Natural Resources (“DNR”) was notified by the city of Marinette of per- and polyfluoroalkyl substances (“PFAS”) contamination present in influent wastewater received by the city of Marinette Waste Water Treatment Plant (the “WWTP”). On July 6, 2018, the DNR was notified again by the city of Marinette of significant levels of PFAS contamination present in biosolids sludge generated by the WWTP for years 2017 and 2018. See attached city of Marinette PFAS Biosolid Results. In July 2018, the city of Marinette conducted sampling in five manholes representing five sectors of the sanitary sewer system within the city. See attached city of Marinette PFAS Sanitary Sewer Results.

ChemDesign Products, Inc. (“ChemDesign”) is a responsible party for the discharge of per- and polyfluoroalkyl substances (“PFAS”) from the Stanton Street Johnson Controls, Inc. (“JCI”) campus where you are a leaseholder from Tyco Fire Products, LP (“Tyco”) and maintain the mailing address 2 Stanton Street, Marinette, Wisconsin. The city of Marinette submitted PFAS results that indicate the sector of the sanitary sewer system where JCI and Tyco discharge PFAS-containing wastewater detected perfluorohexanoic acid (PFHxA at 334 ppt), perfluoroheptanoic acid (PFHpA at 204 ppt) and perfluorooctanoic acid (PFOA at 178 ppt). The city’s efforts in June 2018 were taken within days of JCI and Tyco’s environmental consultant Arcadis’ PFAS sampling on June 8, 2018 in response to a request from EPA to sample for PFAS at the Stanton Street facility. See attached Arcadis PFAS Sampling Results to EPA.

The DNR is aware ChemDesign, Inc. is not the only entities operating and manufacturing PFAS at the JCI campus. A responsible party letter has been sent to JCI and Tyco requiring the evaluation of PFAS discharges to the sanitary sewer within the city of Marinette to its Waste Water Treatment Plant, the biosolids sludge generated by the plant, and the associated fields utilized for landspreading the biosolids sludge in the area.

Legal Responsibilities:

Persons meeting the definition of “responsible party” under Wis. Admin. Code § NR 700.03(51) must follow applicable law to address the discharge of a hazardous substance to the environment or other environmental pollution. Wisconsin Statutes (“Wis. Stats.”) ch. 292 and Wis. Admin. Code chs. NR 700 through NR 754 provide specific requirements for undertaking appropriate response actions to address contamination, including requirements for emergency and interim actions, public information, site investigations, remedy selection, design and operation of remedial action systems, and case closure.

General Recommendations for Responsible Parties:

The DNR recommends that you:

1. Hire a Qualified Environmental Consultant

Hiring a consulting firm with staff that have the appropriate State of Wisconsin qualifications to supervise and certify the submittals is a critical component and necessary to meet your requirements. Further, an environmental consultant should be knowledgeable of Wisconsin's technical procedures and laws and be able to answer questions regarding cleanup requirements. Required qualifications for environmental consultants are specified in Wis. Admin. Code ch. NR 712. Program guidance is available, see *Wis. Admin. Code ch. NR 712 Qualifications and Certifications, RR-081*.

2. Properly Submit Reports on Time with Required Information Included

Wisconsin law includes timeframes for submitting technical documents and conducting work, as well as specifications for what should be included in those submittals. This letter provides a general overview of the timeframes and first steps to take for site investigation and cleanup. For an overview of timing requirements, please refer to *NR 700 Process and Timeline Overview, RR-967, enclosed*.

The DNR developed the publication *Guidance for Electronic Submittals for the Remediation and Redevelopment Program, RR-690*, to assist responsible parties and consultants in properly submitting documents. Wis. Admin. Code § NR 700.11(3g), and other specific provisions within Wis. Admin. Code ch. NR 700, outline the requirements for submittals, including electronic submittals. Consultants and representatives of responsible parties are required to submit one paper copy and one electronic copy of submittals, including case closure documents. The electronic version must be an exact duplicate of the paper version. Failure to submit both a paper copy and electronic copy delays acceptance of your submittals.

3. Consider the Benefits of a Fee-based Technical Review of your Submittals

In-depth DNR review of technical reports and submittals is available for a fee. The Remediation and Redevelopment (RR) Program project managers are available throughout the process to answer general questions and provide general input as the site moves toward closure. However, if you want a formal written response from the DNR, a meeting or both on a specific submittal, a review fee will be required in accordance with Wis. Admin. Code ch. NR 749. **Obtaining technical assistance from DNR project managers throughout the process is an effective way to prevent problems and delays at the end of the process when case closure is requested.** Forms, a fee schedule, and further information on technical assistance is available at dnr.wi.gov and searching "brownfield fees".

Required Steps to Take and Documents to Submit:

The steps listed below serve as a general overview only — all mandatory steps and submittals specified in state law must be met before the DNR can grant "case closure", which is a determination by the DNR that no further cleanup is necessary at a site, as defined in Wis. Admin. Code § NR 700.03(3m).

1. **Scoping and Work Plan Submittal – NR 716.07 and 716.09:** The law requires that you appropriately scope out your site investigation and submit a work plan within 60 days of this notification, by January 4, 2020 for completing a site investigation. The work plan must comply with the requirements in Wis. Admin. Code, chs.

NR 700 through NR 754. For additional assistance, the DNR has extensive guidance on its web page at dnr.wi.gov and search “brownfield publications”.

Prior to and during a site investigation, you must evaluate whether any interim actions are needed to contain or stabilize a hazardous substance discharge or environmental pollution, pursuant to Wis. Admin. Code § NR 708.11. If you undertake an interim action (*e.g.*, free product removal), you must submit documentation of the action per Wis. Admin. Code § NR 708.15.

As you develop the site investigation work plan, you must include an assessment of the vapor intrusion pathway. Wis. Admin. Code § NR 716.11(5) outlines the requirements for when to evaluate for the presence of vapors in the sub-surface and in indoor air. The results and conclusions from the vapor assessment must be included in the Wis. Admin. Code § NR 716.15 site investigation report whether or not you elected to take vapor samples. *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin, RR-800*, is available to help responsible parties and their consultants comply with these requirements.

2. **Field Investigation – NR 716.11:** Following submission of the work plan, the site investigation must be started within the timeframe provided under law. The timeframe varies depending on whether you are requesting the DNR’s fee-based review of the work plan. If you do not request a fee-based review of the work plan, you must initiate the field investigation within 90 days of submitting the work plan, and you may proceed with the field investigation upon DNR notification to proceed; however, if the DNR has not responded within 30 days, from submittal of the work plan, you may then proceed with the field investigation. If a fee and request for DNR review of the work plan is submitted, the field investigation must begin within 60 days after receiving DNR approval.
3. **Sample Results Notification Requirements – NR 716.14:** You must report sampling results to the DNR, owners, occupants, and various other parties within 10 business days after receiving the sampling results, unless a different timeframe is approved by the DNR, in accordance with Wis. Admin. Code § NR 716.14.
4. **Site Investigation Report – NR 716.15:** Within 60 days after completion of the field investigation and receipt of the laboratory data, the law requires you to submit a Site Investigation Report (SIR) to the DNR. As part of the SIR or in the Remedial Actions Options Report (RAOR), if there is soil contamination, the responsible party shall identify the current land use (*i.e.*, industrial or non-industrial) and zoning for the site or facility in accordance with Wis. Admin. Code § NR 720.05(5). Also, as part of the SIR or in the RAOR, you must include any interim action report that may be required under Wis. Admin. Code § NR 708.15.
5. **Remedial Actions Options Report – NR 722:** Within 60 days after submitting the SIR, the law requires you to submit a RAOR. The selected remedy in the RAOR should include an evaluation of green and sustainable remediation criteria, as appropriate, as required by Wis. Admin. Code § NR 722.09(2m). This may be submitted as part of a broader SIR.
6. **Remedial and Interim Action Design, Implementation, Operation, Maintenance and Monitoring Reports – NR 724:** Unless otherwise directed by the DNR, the responsible party shall submit all plans and reports required in Wis. Admin. Code ch. NR 724.
7. **Notification of Residual Contamination or Continuing Obligations – NR 725:** In situations where notification is required, the responsible party must provide submittal(s) that confirms that continuing obligations have been identified and affected property owners have been notified by the responsible parties 30 days prior to case closure, as required by Wis. Admin. Code ch. NR 725.

8. **Semi-annual Reporting -- NR 700.11:** Wis. Admin. Code § NR 700.11(1)(a) requires responsible parties to submit semi-annual site progress reports to the DNR until final case closure is granted. The reports summarize the work completed over six months and additional work planned to adequately complete the response action at the site. Consultants may submit these reports on behalf of responsible parties. These reports are due in January and July of each year. Please refer to DNR publication *NR 700 Semi-Annual Site Progress Report, RR-082*, for more information.

Submittals required under Wis. Admin. Code chs. NR 700 - 726

These documents, as applicable, must be submitted to the DNR prior to the responsible party requesting case closure, unless otherwise directed by the DNR:

- Ch. NR 708 reports and documentation for any immediate or interim actions.
- Ch. NR 712 professional certifications and signatures are included with applicable submittals.
- Ch. NR 716 work plan(s) and site investigation report.
- Ch. NR 722 remedial action options report (exception is for Dry Cleaners Environmental Response Fund sites), with the selected remedial action identified.
- Ch. NR 724 design, construction documentation, operation, maintenance and monitoring plans and reports, including vapor mitigation commissioning.
- Ch. NR 725 submittal(s) that confirms that continuing obligations have been identified and affected property owners have been notified by the responsible parties 30 days prior to case closure.
- If requesting case closure, the Ch. NR 726 case closure form and documentation substantiating compliance with the NR 700 rule series.
- Ch. NR 749 fees have been paid, as applicable, including closure and database fees.
- Ch. NR 700 semi-annual site progress reports starting six months after notification.

Additional Information:

The DNR understands JCI is the parent company of Tyco Fire Products, LP (“Tyco”). All submittals by you or your environmental consultant on your behalf are requested to be submitted by or on behalf of JCI or JCI and Tyco. Pursuant to Wis. Admin. Code § NR 700.11 (1), the DNR directs you and your consultant to submit reports on behalf of JCI and Tyco. Previous acceptance of Tyco-only submittals does not constitute a waiver of liability for JCI by the DNR.

The DNR tracks information on all cleanup sites in a DNR database available at dnr.wi.gov and search “BOTW”. The Bureau for Remediation and Redevelopment Tracking System (BRRTS) identification number for this site is listed at the top of this letter. You may view information related to your site on this database at any time.

As previously noted, you are required to submit one paper copy and one electronic copy of plans and reports. To speed up processing, your correspondence should reference the BRRTS and Facility Identification (FID) numbers (if assigned) listed at the top of this letter.

All correspondence regarding this site should be directed to:

David Neste
Remediation and Redevelopment Program
Wisconsin DNR of Natural Resources
625 E. County Road Y, Suite 700
Oshkosh, WI 54901
David.Neste@wisconsin.gov

Please visit the DNR's Remediation and Redevelopment Program website at dnr.wi.gov and search "Brownfields", for information on selecting a consultant, seeking financial assistance, and understanding the investigation and cleanup process. Information regarding review fees, liability clarification letters, post-cleanup liability and more is also available.

Information on the NR 700 process and selecting a consultant is enclosed.

If you have questions, please call the Dave Neste at (920) 424-0399 or by email at david.neste@wisconsin.gov for more information.

Thank you for your cooperation.

Sincerely,



Roxanne N. Chronert
Team Supervisor, Northeast Region
Remediation & Redevelopment Program

Attachments:

1. City of Marinette PFAS Sanitary Sewer Results
2. City of Marinette PFAS Biosolid Results
3. Arcadis PFAS Sampling Results to EPA
4. NR 700 Process and Timeline Overview, RR-967
5. Environmental Contamination Basics, RR-674
6. Selecting a Consultant, RR-502
7. Environmental Services Contractor List, RR-024

ec: Darsi Foss, DNR
William J. Nelson, DNR
David Neste, DNR
Jeffery Danko, JCI
Scott Wahl, Tyco

ANALYTICAL REPORT

Client: Marinette Wastewater Utility
 Attn: Warren Howard
 501 Water Street
 Marinette, WI 54143

NLS Project: 302949

NLS Customer: 20089

Fax: 715 732 5482 **Phone:** 715 732 5184

Project: Collection System Investigation

MH428 NLS ID: 1065595

COC: 219494:1 Matrix: WW
 Collected: 07/09/18 14:23 Received: 07/10/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					07/13/18	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					07/11/18	EPA 537	721026460

MH346A NLS ID: 1065596

COC: 219494:2 Matrix: WW
 Collected: 07/09/18 14:33 Received: 07/10/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					07/13/18	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					07/11/18	EPA 537	721026460

MH433 NLS ID: 1065597

COC: 219494:3 Matrix: WW
 Collected: 07/09/18 14:41 Received: 07/10/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					07/12/18	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					07/11/18	EPA 537	721026460

MH700A NLS ID: 1065598

COC: 219494:4 Matrix: WW
 Collected: 07/09/18 14:55 Received: 07/10/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					07/13/18	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					07/11/18	EPA 537	721026460

MH001A NLS ID: 1065599

COC: 219494:5 Matrix: WW
 Collected: 07/09/18 15:05 Received: 07/10/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					07/12/18	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					07/11/18	EPA 537	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
 DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis

Customer: Marinette Wastewater Utility NLS Project: 302949

Project Description: Collection System Investigation

Project Title: Template: 537PPT2 Printed: 07/18/2018 15:59

Sample: 1065595 MH428 Collected: 07/09/18 Analyzed: 07/13/18 - Analytes: 12 Notes: HX

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	[7.43]	ppt	2	7.1	23	J
perfluorohexanoic acid (PFHxA)	11.6	ppt	2	1.7	5.3	
perfluoroheptanoic acid (PFHpA)	5.89	ppt	2	0.90	2.9	
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	2	2.6	8.3	
perfluorooctanoic acid (PFOA)	9.92	ppt	2	1.4	4.4	
perfluorononanoic acid (PFNA)	ND	ppt	2	2.6	8.2	
perfluorooctanesulfonic acid (PFOS)	ND	ppt	2	2.9	9.3	
perfluorodecanoic acid (PFDA)	ND	ppt	2	2.4	7.7	
perfluoroundecanoic acid (PFUnA)	ND	ppt	2	2.3	7.4	
perfluorododecanoic acid (PFDoA)	ND	ppt	2	1.9	6.0	
perfluorotridecanoic acid (PFTrDA)	ND	ppt	2	1.9	6.2	
perfluorotetradecanoic acid (PFTA)	ND	ppt	2	1.8	5.6	
C13-PFHxA (SURR)	79.847%		2			S
C13-PFDA (SURR)	30.87%		2			SR S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.
 S = This compound is a surrogate used to evaluate the quality control of a method.
 HX = A dilution was required due to complex sample matrix.
 IV = Initial extract is 125 mL.
 SR = Surrogate recovery was outside QC limits.
 C13-PFDA recovered below QC limits.
 The internal standard, C13-PFOS, area count was outside QC limits. PFBS result may have a high bias.

Sample: 1065596 MH346A Collected: 07/09/18 Analyzed: 07/13/18 - Analytes: 12 Notes: HX

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	2	7.1	23	
perfluorohexanoic acid (PFHxA)	26.2	ppt	2	1.7	5.3	
perfluoroheptanoic acid (PFHpA)	13	ppt	2	0.90	2.9	
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	2	2.6	8.3	
perfluorooctanoic acid (PFOA)	41.5	ppt	2	1.4	4.4	
perfluorononanoic acid (PFNA)	ND	ppt	2	2.6	8.2	
perfluorooctanesulfonic acid (PFOS)	ND	ppt	2	2.9	9.3	
perfluorodecanoic acid (PFDA)	ND	ppt	2	2.4	7.7	MS
perfluoroundecanoic acid (PFUnA)	ND	ppt	2	2.3	7.4	MS
perfluorododecanoic acid (PFDoA)	ND	ppt	2	1.9	6.0	MS
perfluorotridecanoic acid (PFTrDA)	ND	ppt	2	1.9	6.2	MS
perfluorotetradecanoic acid (PFTA)	ND	ppt	2	1.8	5.6	MS
C13-PFHxA (SURR)	75.478%		2			S
C13-PFDA (SURR)	34.53%		2			SR S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.
 HX = A dilution was required due to complex sample matrix.
 IV = Initial extract is 120 mL.
 SR = Surrogate recovery was outside QC limits.
 C13-PFDA recovered below QC limits.
 MS = Matrix spike recovery was outside QC limits.
 perfluorodecanoic acid (PFDA) recovered below QC limits.
 perfluorododecanoic acid (PFDoA) recovered below QC limits.
 perfluorotetradecanoic acid (PFTA) recovered below QC limits.
 perfluorotridecanoic acid (PFTrDA) recovered below QC limits.
 perfluoroundecanoic acid (PFUnA) recovered below QC limits.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis

Customer: Marinette Wastewater Utility NLS Project: 302949

Project Description: Collection System Investigation

Project Title: Template: 537PPT2 Printed: 07/18/2018 15:59

Sample: 1065597 MH433 Collected: 07/09/18 Analyzed: 07/12/18 - Analytes: 12

Notes: HX

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	27.1	ppt	2	7.1	23	
perfluorohexanoic acid (PFHxA)	46.8	ppt	2	1.7	5.3	
perfluoroheptanoic acid (PFHpA)	17.1	ppt	2	0.90	2.9	
perfluorohexanesulfonic acid (PFHxS)	62.4	ppt	2	2.6	8.3	
perfluorooctanoic acid (PFOA)	38.2	ppt	2	1.4	4.4	
perfluorononanoic acid (PFNA)	42.3	ppt	2	2.6	8.2	
perfluorooctanesulfonic acid (PFOS)	211	ppt	2	2.9	9.3	
perfluorodecanoic acid (PFDA)	ND	ppt	2	2.4	7.7	
perfluoroundecanoic acid (PFUnA)	[3.12]	ppt	2	2.3	7.4	J
perfluorododecanoic acid (PFDoA)	ND	ppt	2	1.9	6.0	
perfluorotridecanoic acid (PFTrDA)	ND	ppt	2	1.9	6.2	
perfluorotetradecanoic acid (PFTA)	ND	ppt	2	1.8	5.6	
C13-PFHxA (SURR)	87.99%		2			S
C13-PFDA (SURR)	61.566%		2			SR S

NOTES APPLICABLE TO THIS ANALYSIS:

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

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

HX = A dilution was required due to complex sample matrix.

IV = Initial extract is 120 mL.

SR = Surrogate recovery was outside QC limits.

C13-PFDA recovered below QC limits.

Sample: 1065598 MH700A Collected: 07/09/18 Analyzed: 07/13/18 - Analytes: 12

Notes: HX

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	2	7.1	23	
perfluorohexanoic acid (PFHxA)	9.07	ppt	2	1.7	5.3	
perfluoroheptanoic acid (PFHpA)	6.09	ppt	2	0.90	2.9	
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	2	2.6	8.3	
perfluorooctanoic acid (PFOA)	10.3	ppt	2	1.4	4.4	
perfluorononanoic acid (PFNA)	ND	ppt	2	2.6	8.2	
perfluorooctanesulfonic acid (PFOS)	ND	ppt	2	2.9	9.3	
perfluorodecanoic acid (PFDA)	ND	ppt	2	2.4	7.7	
perfluoroundecanoic acid (PFUnA)	ND	ppt	2	2.3	7.4	
perfluorododecanoic acid (PFDoA)	ND	ppt	2	1.9	6.0	
perfluorotridecanoic acid (PFTrDA)	ND	ppt	2	1.9	6.2	
perfluorotetradecanoic acid (PFTA)	ND	ppt	2	1.8	5.6	
C13-PFHxA (SURR)	67.911%		2			SR S
C13-PFDA (SURR)	31.012%		2			SR S

NOTES APPLICABLE TO THIS ANALYSIS:

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

HX = A dilution was required due to complex sample matrix.

IV = Initial extract is 120 mL.

SR = Surrogate recovery was outside QC limits.

C13-PFDA recovered below QC limits.

C13-PFHxA recovered below QC limits.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis

Customer: Marinette Wastewater Utility NLS Project: 302949

Project Description: Collection System Investigation

Project Title: Template: 537PPT2 Printed: 07/18/2018 15:59

Sample: 1065599 MH001A Collected: 07/09/18 Analyzed: 07/12/18 - Analytes: 12

Notes: HX

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	2	7.1	23	
perfluorohexanoic acid (PFHxA)	334	ppt	2	1.7	5.3	
perfluoroheptanoic acid (PFHpA)	204	ppt	2	0.90	2.9	
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	2	2.6	8.3	
perfluorooctanoic acid (PFOA)	178	ppt	2	1.4	4.4	
perfluorononanoic acid (PFNA)	14	ppt	2	2.6	8.2	
perfluorooctanesulfonic acid (PFOS)	ND	ppt	2	2.9	9.3	
perfluorodecanoic acid (PFDA)	[2.84]	ppt	2	2.4	7.7	J
perfluoroundecanoic acid (PFUnA)	ND	ppt	2	2.3	7.4	
perfluorododecanoic acid (PFDoA)	ND	ppt	2	1.9	6.0	
perfluorotridecanoic acid (PFTrDA)	ND	ppt	2	1.9	6.2	
perfluorotetradecanoic acid (PFTA)	ND	ppt	2	1.8	5.6	
C13-PFHxA (SURR)	95.632%		2			S
C13-PFDA (SURR)	74.471%		2			S

NOTES APPLICABLE TO THIS ANALYSIS:

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

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

HX = A dilution was required due to complex sample matrix.

IV = Initial extract is 120 mL.

The PFOA branch isotope peak is included in the PFOA calculation per EPA directive.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

CLIENT <i>Marquette WWTP</i>	
ADDRESS <i>1603 Ely Street</i>	
CITY <i>Marquette</i>	STATE <i>WI</i>
ZIP <i>54143</i>	
PROJECT DESCRIPTION / NO.	QUOTATION NO.
DNR FID # <i>Collection Sys. Investigation</i>	DNR LICENSE #
CONTACT	PHONE <i>715-923-0760</i>
PURCHASE ORDER NO.	FAX

Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)
Wisconsin DATCP ID
105-000330 (Cran) / 105-000479 (Wauk)

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS	PARAMETER									



ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS										COLLECTION REMARKS (i.e. DNR Well ID #)				
			DATE	TIME																
1.	<i>1065545</i>	<i>MH 428</i>	<i>7-9-18</i>	<i>1423</i>	<i>WW</i>	<i>X</i>	<i>G</i>													
2.	<i>596</i>	<i>MH 346A</i>	<i>7-9-18</i>	<i>1433</i>	<i>WW</i>	<i>X</i>	<i>G</i>													
3.	<i>597</i>	<i>MH 433</i>	<i>7-9-18</i>	<i>1441</i>	<i>WW</i>	<i>X</i>	<i>G</i>													
4.	<i>598</i>	<i>MH 700A</i>	<i>7-9-18</i>	<i>1455</i>	<i>WW</i>	<i>X</i>	<i>G</i>													
5.	<i>599</i>	<i>MH 001A</i>	<i>7-9-18</i>	<i>1505</i>	<i>WW</i>	<i>X</i>	<i>G</i>													
6.																				
7.																				
8.																				
9.																				
10.																				

COLLECTED BY (signature) <i>Mohd Akbar</i>	CUSTODY SEAL NO. (IF ANY)	DATE/TIME <i>7-9-18 1505</i>	REPORT TO
RELINQUISHED BY (signature)	RECEIVED BY (signature)	DATE/TIME	
DISPATCHED BY (signature) <i>Mohd Akbar</i>	METHOD OF TRANSPORT <i>UPS Ground</i>	DATE/TIME	
RECEIVED AT NLS BY (signature) <i>Karla Bleume</i>	DATE/TIME <i>7-10-18 1015</i>	CONDITION <i>on ice</i>	INVOICE TO
TEMP. # <i>1.0°C SMH</i>	REMARKS & OTHER INFORMATION		
COOLER #	WDNR FACILITY NUMBER	E-MAIL ADDRESS	
PRESERVATIVE: NP = no preservative S = sulfuric acid	N = nitric acid Z = zinc acetate M = methanol	OH = sodium hydroxide HA = hydrochloric & ascorbic acid H = hydrochloric acid	

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

NORTHERN LAKE SERVICE, INC.

400 NORTH LAKE AVENUE
CRANDON, WI 54520 (715) 478-2777

ORDER OF ANALYSIS

RESULTS ORDERED BY:	CHAIN OF CUSTODY RECORD NUMBER:
Gabriel Aschbacher Marinette WWTP LAB 1603 Ely Street Marinette, WI 54143	219494
	QUOTATION NUMBER:
	ANALYZE FOR DISSOLVED OR TOTAL PARAMETERS?
SEND RESULTS TO:	SEND INVOICE TO:
Warren Howard Marinette WWTP LAB 501 Water Street Marinette, WI 54143	Marinette Wastewater Utility 501 Water Street Marinette, WI 54143

Samples on line(s) : 1 through 5 to be analyzed for the parameters below:

Perflourinated Compounds (Method 537)

Special Instructions: _____

CLIENT: Marinette Wastewater Utility
501 Water Street
Marinette, WI 54143
715-732-5184
no FBs needed

SHIP TO: Gabe Aschbacher
1603 Ely Street
Marinette, WI 54143
--

Cust #: 20089
Order #: 64560
Ship Date: 07/02/2018
Type: DW

Sample ID: Perfluorinated
5 SETS

EPA 537 -- 2 x 250mL 1.25g Trizma

A reminder to our public drinking water customers, NLS is fully certified for SDWA coliform testing. If you are interested in a quote for your regular bacteria testing please call our client service department at 715-478-2777

PLEASE SUBMIT COMPLETED DNR FORMS WITH SAMPLES.
NLS IS REQUIRED TO SEND RESULTS DIRECTLY TO DNR PER NR809.80(4).

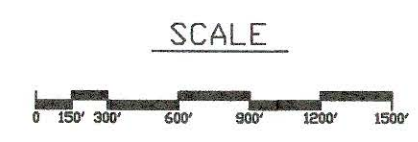
Shipped and Completed by: _____

Sanitary Sewer Manhole Numbers



Sample Points

- 428
- 346A
- 433
- 700A
- 002A



- LEGEND**
- MANHOLE
 - LIFT STATION
 - ▨ COMBINED STORM AND SANITARY SEWERS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: 320-39756-1
Client Project/Site: PFAS Analysis

For:
Marinette WWTP
1603 Ely Street
Marinette, Wisconsin 54143

Attn: Gabe Aschbacher



Authorized for release by:
6/22/2018 8:08:12 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Marinette WWTP
Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Marinette WWTP
Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

Job ID: 320-39756-1

Laboratory: TestAmerica Sacramento

Narrative

Job Narrative 320-39756-1

Comments

No additional comments.

Receipt

The sample was received on 5/24/2018 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

LCMS

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method(s) SHAKE: Due to absorbency of the matrix, (fiber carpet), sample was weighed out at 1.0 grams instead of 5.0 grams, which deviates from the standard procedure: OF 003 SLUDGE (320-39756-1). The reporting limits (RLs) have been adjusted proportionately. Method code:Shake_Bath_14D. Matrix: solid Prep batch 320-226103

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Detection Summary

Client: Marinette WWTP
 Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

Client Sample ID: OF 003 SLUDGE

Lab Sample ID: 320-39756-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	290		5.9	1.2	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.7	J	5.9	0.86	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	10		5.9	2.5	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.2	J	5.9	1.1	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	5.3	J	5.9	0.65	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	14		5.9	1.1	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	7.6		5.9	2.0	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic Acid (PFTriA)	4.4	J	5.9	1.5	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	3.0	J	5.9	1.6	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	30		5.9	0.92	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	210		15	5.9	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento



Client Sample Results

Client: Marinette WWTP
Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

Client Sample ID: OF 003 SLUDGE

Lab Sample ID: 320-39756-1

Date Collected: 05/23/18 14:00

Matrix: Solid

Date Received: 05/24/18 09:00

Percent Solids: 3.4

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	290		5.9	1.2	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1
Perfluoroheptanoic acid (PFHpA)	3.7	J	5.9	0.86	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1
Perfluorooctanoic acid (PFOA)	10		5.9	2.5	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1
Perfluorononanoic acid (PFNA)	3.2	J	5.9	1.1	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1
Perfluorodecanoic acid (PFDA)	5.3	J	5.9	0.65	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1
Perfluoroundecanoic acid (PFUnA)	14		5.9	1.1	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1
Perfluorododecanoic acid (PFDoA)	7.6		5.9	2.0	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1
Perfluorotridecanoic Acid (PFTriA)	4.4	J	5.9	1.5	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1
Perfluorotetradecanoic acid (PFTeA)	3.0	J	5.9	1.6	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1
Perfluorobutanesulfonic acid (PFBS)	<0.74		5.9	0.74	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1
Perfluorohexanesulfonic acid (PFHxS)	30		5.9	0.92	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1
Perfluorooctanesulfonic acid (PFOS)	210		15	5.9	ug/Kg	☼	05/30/18 03:46	06/19/18 17:04	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	78		25 - 150	05/30/18 03:46	06/19/18 17:04	1
13C4-PFHpA	89		25 - 150	05/30/18 03:46	06/19/18 17:04	1
13C4 PFOA	89		25 - 150	05/30/18 03:46	06/19/18 17:04	1
13C5 PFNA	68		25 - 150	05/30/18 03:46	06/19/18 17:04	1
13C2 PFDA	61		25 - 150	05/30/18 03:46	06/19/18 17:04	1
13C2 PFUnA	75		25 - 150	05/30/18 03:46	06/19/18 17:04	1
13C2 PFDoA	48		25 - 150	05/30/18 03:46	06/19/18 17:04	1
13C2-PFTeDA	28		25 - 150	05/30/18 03:46	06/19/18 17:04	1
13C3-PFBS	83		25 - 150	05/30/18 03:46	06/19/18 17:04	1
18O2 PFHxS	88		25 - 150	05/30/18 03:46	06/19/18 17:04	1
13C4 PFOS	53		25 - 150	05/30/18 03:46	06/19/18 17:04	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	96.6		0.1	0.1	%			06/01/18 16:04	1
Percent Solids	3.4		0.1	0.1	%			06/01/18 16:04	1

Isotope Dilution Summary

Client: Marinette WWTP
Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFHxA (25-150)	PFHpA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)	PFDaA (25-150)	PFTDA (25-150)
320-39756-1	OF 003 SLUDGE	78	89	89	68	61	75	48	28
LCS 320-226103/2-A	Lab Control Sample	83	86	92	87	89	86	75	79
MB 320-226103/1-A	Method Blank	87	89	93	90	91	87	85	78

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	3C3-PFB: (25-150)	PFHxS (25-150)	PFOS (25-150)
320-39756-1	OF 003 SLUDGE	83	88	53
LCS 320-226103/2-A	Lab Control Sample	79	86	85
MB 320-226103/1-A	Method Blank	82	91	87

Surrogate Legend

PFHxA = 13C2 PFHxA
PFHpA = 13C4-PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2-PFTeDA
13C3-PFBS = 13C3-PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS

QC Sample Results

Client: Marinette WWTP
Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-226103/1-A

Matrix: Solid

Analysis Batch: 229906

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 226103

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	<0.042		0.20	0.042	ug/Kg		05/30/18 03:45	06/19/18 14:51	1
Perfluoroheptanoic acid (PFHpA)	<0.029		0.20	0.029	ug/Kg		05/30/18 03:45	06/19/18 14:51	1
Perfluorooctanoic acid (PFOA)	<0.086		0.20	0.086	ug/Kg		05/30/18 03:45	06/19/18 14:51	1
Perfluorononanoic acid (PFNA)	<0.036		0.20	0.036	ug/Kg		05/30/18 03:45	06/19/18 14:51	1
Perfluorodecanoic acid (PFDA)	<0.022		0.20	0.022	ug/Kg		05/30/18 03:45	06/19/18 14:51	1
Perfluoroundecanoic acid (PFUnA)	<0.036		0.20	0.036	ug/Kg		05/30/18 03:45	06/19/18 14:51	1
Perfluorododecanoic acid (PFDoA)	<0.067		0.20	0.067	ug/Kg		05/30/18 03:45	06/19/18 14:51	1
Perfluorotridecanoic Acid (PFTriA)	<0.051		0.20	0.051	ug/Kg		05/30/18 03:45	06/19/18 14:51	1
Perfluorotetradecanoic acid (PFTeA)	<0.054		0.20	0.054	ug/Kg		05/30/18 03:45	06/19/18 14:51	1
Perfluorobutanesulfonic acid (PFBS)	<0.025		0.20	0.025	ug/Kg		05/30/18 03:45	06/19/18 14:51	1
Perfluorohexanesulfonic acid (PFHxS)	<0.031		0.20	0.031	ug/Kg		05/30/18 03:45	06/19/18 14:51	1
Perfluorooctanesulfonic acid (PFOS)	<0.20		0.50	0.20	ug/Kg		05/30/18 03:45	06/19/18 14:51	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	87		25 - 150	05/30/18 03:45	06/19/18 14:51	1
13C4-PFHpA	89		25 - 150	05/30/18 03:45	06/19/18 14:51	1
13C4 PFOA	93		25 - 150	05/30/18 03:45	06/19/18 14:51	1
13C5 PFNA	90		25 - 150	05/30/18 03:45	06/19/18 14:51	1
13C2 PFDA	91		25 - 150	05/30/18 03:45	06/19/18 14:51	1
13C2 PFUnA	87		25 - 150	05/30/18 03:45	06/19/18 14:51	1
13C2 PFDoA	85		25 - 150	05/30/18 03:45	06/19/18 14:51	1
13C2-PFTeDA	78		25 - 150	05/30/18 03:45	06/19/18 14:51	1
13C3-PFBS	82		25 - 150	05/30/18 03:45	06/19/18 14:51	1
18O2 PFHxS	91		25 - 150	05/30/18 03:45	06/19/18 14:51	1
13C4 PFOS	87		25 - 150	05/30/18 03:45	06/19/18 14:51	1

Lab Sample ID: LCS 320-226103/2-A

Matrix: Solid

Analysis Batch: 229906

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 226103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid (PFHxA)	2.00	1.78		ug/Kg		89	75 - 125
Perfluoroheptanoic acid (PFHpA)	2.00	1.89		ug/Kg		94	76 - 124
Perfluorooctanoic acid (PFOA)	2.00	1.70		ug/Kg		85	76 - 121
Perfluorononanoic acid (PFNA)	2.00	1.85		ug/Kg		93	74 - 126
Perfluorodecanoic acid (PFDA)	2.00	1.69		ug/Kg		85	74 - 124
Perfluoroundecanoic acid (PFUnA)	2.00	1.80		ug/Kg		90	74 - 114
Perfluorododecanoic acid (PFDoA)	2.00	1.95		ug/Kg		97	75 - 123
Perfluorotridecanoic Acid (PFTriA)	2.00	1.91		ug/Kg		96	43 - 116
Perfluorotetradecanoic acid (PFTeA)	2.00	1.78		ug/Kg		89	22 - 129
Perfluorobutanesulfonic acid (PFBS)	1.77	1.74		ug/Kg		99	73 - 142
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.62		ug/Kg		89	75 - 121
Perfluorooctanesulfonic acid (PFOS)	1.86	1.63		ug/Kg		88	69 - 131

TestAmerica Sacramento

QC Sample Results

Client: Marinette WWTP
 Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

<i>Isotope Dilution</i>	<i>LCS</i> <i>%Recovery</i>	<i>LCS</i> <i>Qualifier</i>	<i>Limits</i>
<i>13C2 PFHxA</i>	83		25 - 150
<i>13C4-PFHpA</i>	86		25 - 150
<i>13C4 PFOA</i>	92		25 - 150
<i>13C5 PFNA</i>	87		25 - 150
<i>13C2 PFDA</i>	89		25 - 150
<i>13C2 PFUnA</i>	86		25 - 150
<i>13C2 PFDoA</i>	75		25 - 150
<i>13C2-PFTeDA</i>	79		25 - 150
<i>13C3-PFBS</i>	79		25 - 150
<i>18O2 PFHxS</i>	86		25 - 150
<i>13C4 PFOS</i>	85		25 - 150

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QC Association Summary

Client: Marinette WWTP
Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

LCMS

Prep Batch: 226103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-39756-1	OF 003 SLUDGE	Total/NA	Solid	SHAKE	
MB 320-226103/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-226103/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 229906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-39756-1	OF 003 SLUDGE	Total/NA	Solid	537 (modified)	226103
MB 320-226103/1-A	Method Blank	Total/NA	Solid	537 (modified)	226103
LCS 320-226103/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	226103

General Chemistry

Analysis Batch: 226751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-39756-1	OF 003 SLUDGE	Total/NA	Solid	D 2216	

Lab Chronicle

Client: Marinette WWTP
Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

Client Sample ID: OF 003 SLUDGE

Date Collected: 05/23/18 14:00

Date Received: 05/24/18 09:00

Lab Sample ID: 320-39756-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			226751	06/01/18 16:04	TCS	TAL SAC

Client Sample ID: OF 003 SLUDGE

Date Collected: 05/23/18 14:00

Date Received: 05/24/18 09:00

Lab Sample ID: 320-39756-1

Matrix: Solid

Percent Solids: 3.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.00 g	10.00 mL	226103	05/30/18 03:46	HJA	TAL SAC
Total/NA	Analysis	537 (modified)		1			229906	06/19/18 17:04	D1R	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Marinette WWTP
Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

Laboratory: TestAmerica Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-020	01-20-21
Arizona	State Program	9	AZ0708	08-11-18
Arkansas DEQ	State Program	6	88-0691	06-17-19
California	State Program	9	2897	01-31-19
Colorado	State Program	8	CA00044	08-31-18
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-19
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-19
Illinois	NELAP	5	200060	03-17-19
Kansas	NELAP	7	E-10375	10-31-18
L-A-B	DoD ELAP		L2468	01-20-21
Louisiana	NELAP	6	30612	06-30-19
Maine	State Program	1	CA0004	04-14-20
Michigan	State Program	5	9947	01-31-20
Nevada	State Program	9	CA00044	07-31-18
New Hampshire	NELAP	1	2997	04-18-19
New Jersey	NELAP	2	CA005	06-30-19
New York	NELAP	2	11666	03-31-19
Oregon	NELAP	10	4040	01-29-19
Pennsylvania	NELAP	3	68-01272	03-31-19
Texas	NELAP	6	T104704399	05-31-19
US Fish & Wildlife	Federal		LE148388-0	07-31-18
USDA	Federal		P330-11-00436	01-17-21
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-19
Vermont	State Program	1	VT-4040	04-30-19
Virginia	NELAP	3	460278	03-14-19
Washington	State Program	10	C581	05-05-19
West Virginia (DW)	State Program	3	9930C	12-31-18
Wyoming	State Program	8	8TMS-L	01-28-19

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Marinette WWTP
Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: Marinette WWTP
Project/Site: PFAS Analysis

TestAmerica Job ID: 320-39756-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-39756-1	OF 003 SLUDGE	Solid	05/23/18 14:00	05/24/18 09:00

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

West Sacramento, CA 95605
Phone: 916.373.5600 Fax:

Regulatory Program: DW NPDES RCRA Other:

Client Contact		Project Manager: <u>Gabe Aschbacher</u>		Site Contact: <u>Gabe Aschbacher</u>		Date:		COC No: <u>240416</u>			
Company Name: <u>Marinette WWTP</u>		Tel/Fax: <u>715-923-0760</u>		Lab Contact: <u>Gabe Aschbacher</u>		Carrier: <u>Fed Ex Prepaid</u>		<u>1</u> of <u>1</u> COCs			
Address: <u>1603 Ely Street</u>		Analysis Turnaround Time									
City/State/Zip: <u>Marinette / WI / 54142</u>		<input type="checkbox"/> CALENDAR DAYS		<input checked="" type="checkbox"/> WORKING DAYS						Sampler:	
Phone: <u>715-923-0760</u>		TAT if different from Below _____								For Lab Use Only:	
Fax:		<input checked="" type="checkbox"/> 2 weeks								Walk-in Client:	
Project Name: <u>PFAS Analysis</u>		<input type="checkbox"/> 1 week								Lab Sampling:	
Site: <u>Marinette WWTP</u>		<input type="checkbox"/> 2 days								Job / SDG No.:	
PO #		<input type="checkbox"/> 1 day									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
OF 003 SLUDGE	5-23-18	1400	C	solid	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for 1 Months

Special Instructions/QC Requirements & Comments:
Analyze for PFAS compounds as listed above by CAS #

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temp. (°C): Obs'd: 0.7 Corr'd: _____ Therm ID No.: AK5

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by: <u>Paul Allen</u>	Company: <u>Marinette WWTP</u>	Date/Time: <u>5-23-18 1500</u>	Received in Laboratory by: <u>Jim [Signature]</u>	Company: <u>[Signature]</u>	Date/Time: <u>5/24/18 900</u>

Page 15 of 16

6/22/2018



Login Sample Receipt Checklist

Client: Marinette WWTP

Job Number: 320-39756-1

Login Number: 39756
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Mr. Conor Neal
USEPA REGION 5
77 West Jackson Boulevard
Mail Code: LU-16J
Chicago, IL 60604-3507

Arcadis U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee
Wisconsin 53202
Tel 414 276 7742
Fax 414 276 7603
www.arcadis.com

Subject:
Summary of Groundwater Sampling
Ansul Inc. Stanton Street Facility, Marinette, Wisconsin
EPA ID: WID006125215

ENVIRONMENT

Date:
June 21, 2018

Dear Mr. Neal:

Contact:
Michael Bedard

On behalf of Tyco Fire Products LP (Tyco), Arcadis US, Inc. (Arcadis) has prepared this *Summary of Groundwater Sampling* for the Ansul Inc. Stanton Street Facility located at 1 Stanton Street, Marinette, Wisconsin (Site). The sampling focused on analysis for potential per- and polyfluoroalkyl substances (PFAS) including perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in groundwater. The samples were collected in accordance with the *PFAS Sampling Procedures and Low-flow Groundwater Purging for Monitoring Wells and Treatment System Influent* document prepared by Arcadis (Revision #0, March 1, 2018).

Phone:
267.685.1821

Email:
michael.bedard@arcadis.com

Our ref:
WI001651.0001

On April 30 and May 1, 2018, Arcadis collected groundwater samples for PFAS analyses from 7 existing monitoring wells. The monitoring wells included six shallow wells (10-25 feet deep) and one intermediate well (approximately 30 feet deep). Additionally, one sample was collected of combined groundwater influent to the existing groundwater treatment system.

Prior to groundwater sampling, a round of water level measurements was collected. Low-flow sampling procedures using a peristaltic pump and dedicated HDPE disposable tubing were used for collection of all groundwater samples. The samples were collected after groundwater parameter measurements, including dissolved oxygen, pH, specific conductivity, and oxidation-reduction potential, stabilized at each well. All samples, including Quality Assurance/Quality Control (QA/QC) samples such as equipment blanks, field duplicates, matrix spike, and matrix spike duplicates, were collected in laboratory-supplied containers and shipped to the laboratory on ice, under

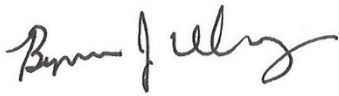
Mr. Conor Neal
USEPA Region 5
June 21, 2018

standard chain of custody procedures and screened for the presence of PFAS using the United States Environmental Protection Agency (EPA) Method 537.

A summary of the results is presented in the attached table and figure. A copy of the full Level 4 laboratory report is also included. Please feel free to contact us if you have any questions.

Sincerely,

Arcadis U.S., Inc.



Benjamin J. Verburg, PE
Principal Engineer



Michael F. Bedard
Project Lead/Associate Vice President

Copies:

Richard Mator - JCI
David Neste - WDNR

Enclosures:

Tables

- 1 Stanton Street Groundwater Sample Results - June 8, 2018

Figures

- 1 Site Map – Proposed PFOA/PFOS Sampling Locations

Attachments

- 1 Level 4 Laboratory Analytical Reports

STANTON STREET GROUNDWATER SAMPLE RESULTS - JUNE 8, 2018

NOTE: LEVEL 4 VALIDATION IS COMPLETE. FINAL RESULTS PRESENTED BELOW.

Location	Sample Date	PFOA	PFOS	EtFOSAA	MeFOSAA	PFBS	PFDA	PFDoA	PFHpA	PFHxS	PFHxA	PFNA	PFTeA	PFTriA	PFUnA
INF-01	5/1/2018	1800 DJ	64 J	< 1.9	< 3.1	3.4	10 J	< 0.55	2000 DJ	19 J	5200 DJ	110 J	< 0.29	< 1.3	< 1.1
INF-01 DUP	5/1/2018	1700 DJ	67 J	< 1.9	< 3.1	3.2	10 J	< 0.55	2100 DJ	19 J	4900 DJ	120 J	< 0.29	< 1.3	< 1.1
MW008M	5/1/2018	3700 DJ	350 J	R	R	14 J	5.8 J	R	2600 DJ	69 J	9400 DJ	210 J	R	R	R
MW008M DUP	5/1/2018	4100 DJ	340 J	R	R	15 J	5.5 J	R	2700 DJ	70 J	9200 DJ	220 J	R	R	R
MW032S	4/30/2018	520 DJ	140 J	< 2.0 J	< 3.3 J	< 0.21 J	61 J	0.75 J	780 DJ	< 2.1 UB	2100 DJ	120 J	< 0.31 J	< 1.4 J	4.3 J
MW041S	5/1/2018	1500 DJ	650 DJ	< 2.2 J	5.5 J	3.0 J	7.1 J	< 0.63 J	1400 DJ	9.3 J	3400 DJ	130 J	< 0.33 J	< 1.5 J	< 1.3 J
MW044S	4/30/2018	1500 DJ	340 J	1.8 J	< 3.0 J	0.98 J	600 DJ	0.65 J	2200 DJ	4.0 J	5300 DJ	770 DJ	< 0.28 J	< 1.3 J	28 J
MW054S	4/30/2018	3800 DJ	210 J	< 2.2 J	< 3.5 J	1.3 J	520 DJ	0.81 J	5200 DJ	7.4 J	8500 DJ	2800 DJ	< 0.33 J	< 1.5 J	31 J
MW054S DUP	4/30/2018	4100 DJ	200 J	< 2.0 J	< 3.3 J	1.4 J	510 DJ	0.92 J	4800 DJ	7.7 J	9100 DJ	2900 DJ	< 0.31 J	< 1.4 J	28 J
MW102S	4/30/2018	130	25	< 1.9	< 3.1	4.2	< 0.31	< 0.56	2100 DJ	3.2	3200 DJ	0.31 J	< 0.29	< 1.3	< 1.1
MW108S	5/1/2018	9100 DJ	530 DJ	R	R	4.3 J	19 J	R	7000 DJ	13	20000 DJ	1200 DJ	R	R	R

Notes:

Detections are boldfaced

< = Compound not detected at method detection limit

D = Dilution required for sample analysis

DUP = Field Duplicate

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

R = The sample results are rejected.

UB = Compound considered non-detect at the listed value due to associated blank contamination.

PFBS = Perfluorobutanesulfonic acid (C4)

PFHpA = Perfluoroheptanoic acid (C7)

PFHxS = Perfluorohexanesulfonic acid (C6)

PFNA = Perfluorononanoic acid (C9)

PFOS = Perfluorooctanesulfonic acid (C8)

PFOA = Perfluorooctanoic acid (C8)

EtFOSAA=ethylperfluorooctane sulfonamido acetate

MeFOSAA = methylperfluorooctane sulfonamido acetate

PFDA = perfluorodecanoic acid (C10)

PFDoA = perfluorododecanoic acid (C12)

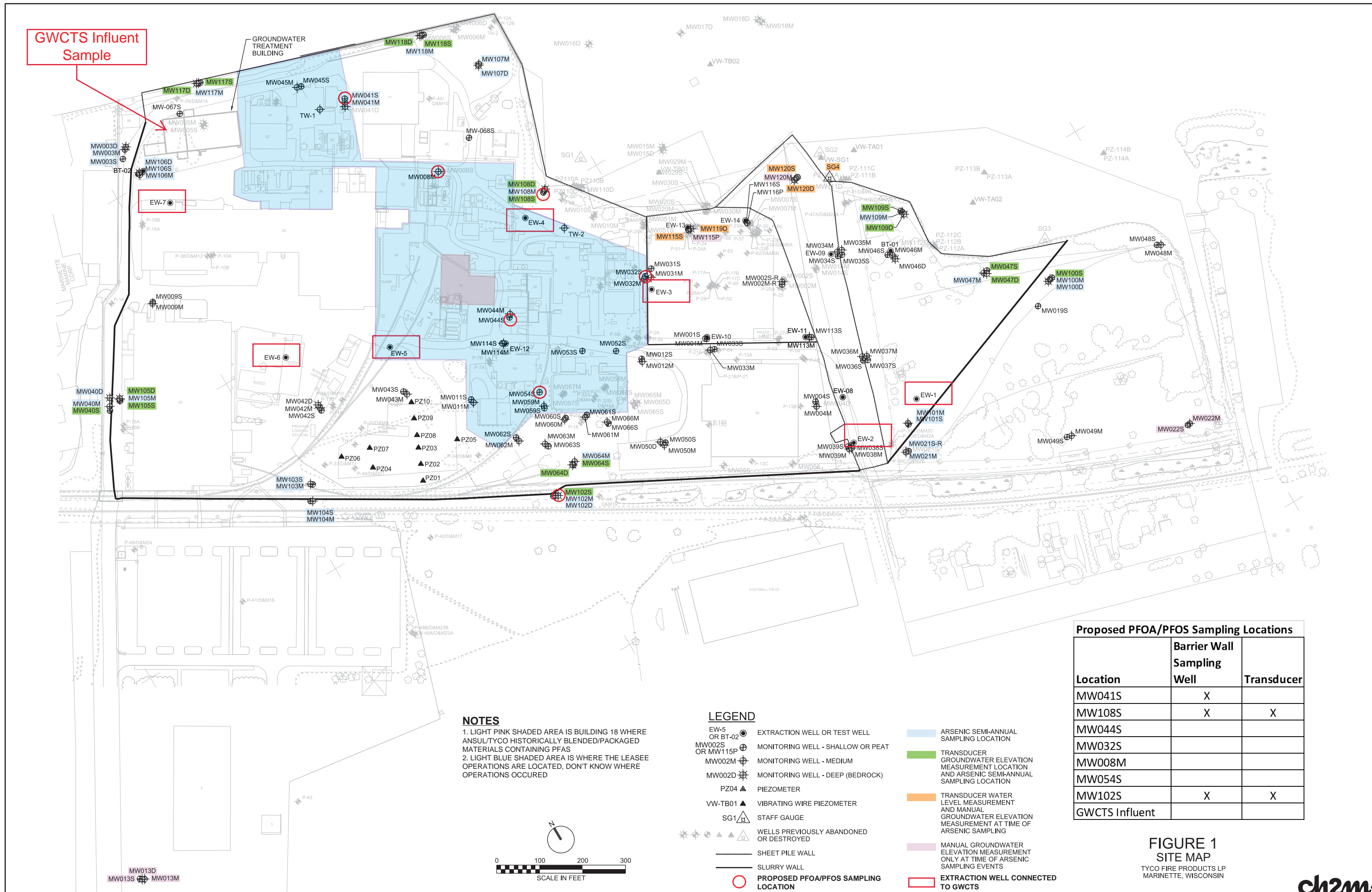
PFHxA = perfluorohexanoic acid (C6)

PFTeA = perfluorotetradecanoic acid (C14)

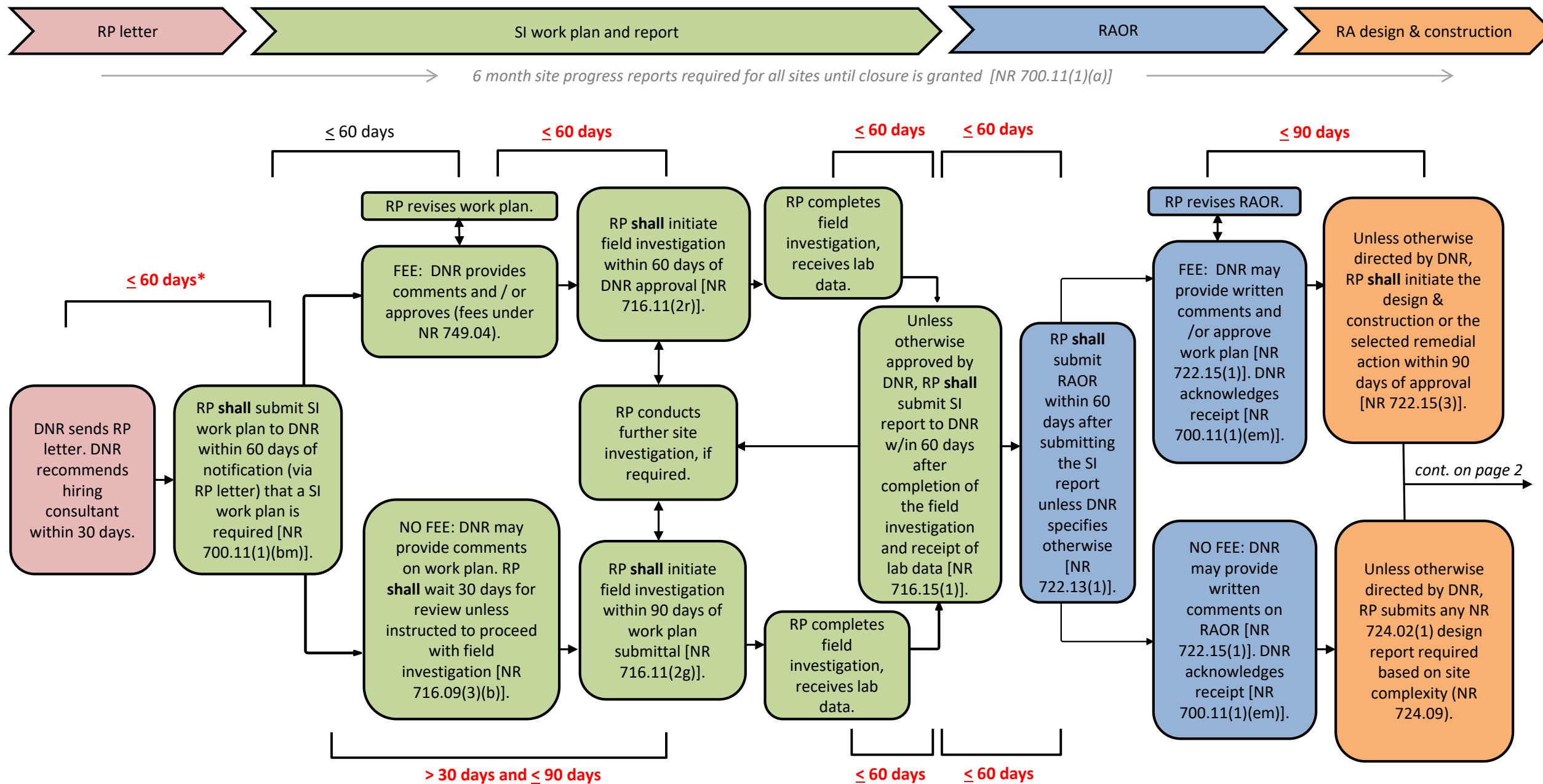
PFTriA = perfluorotridecanoic acid (C13)

PFUnA = perfluoroundecanoic acid (C11)

Units are in ng/L (nanogram per liter) unless otherwise stated

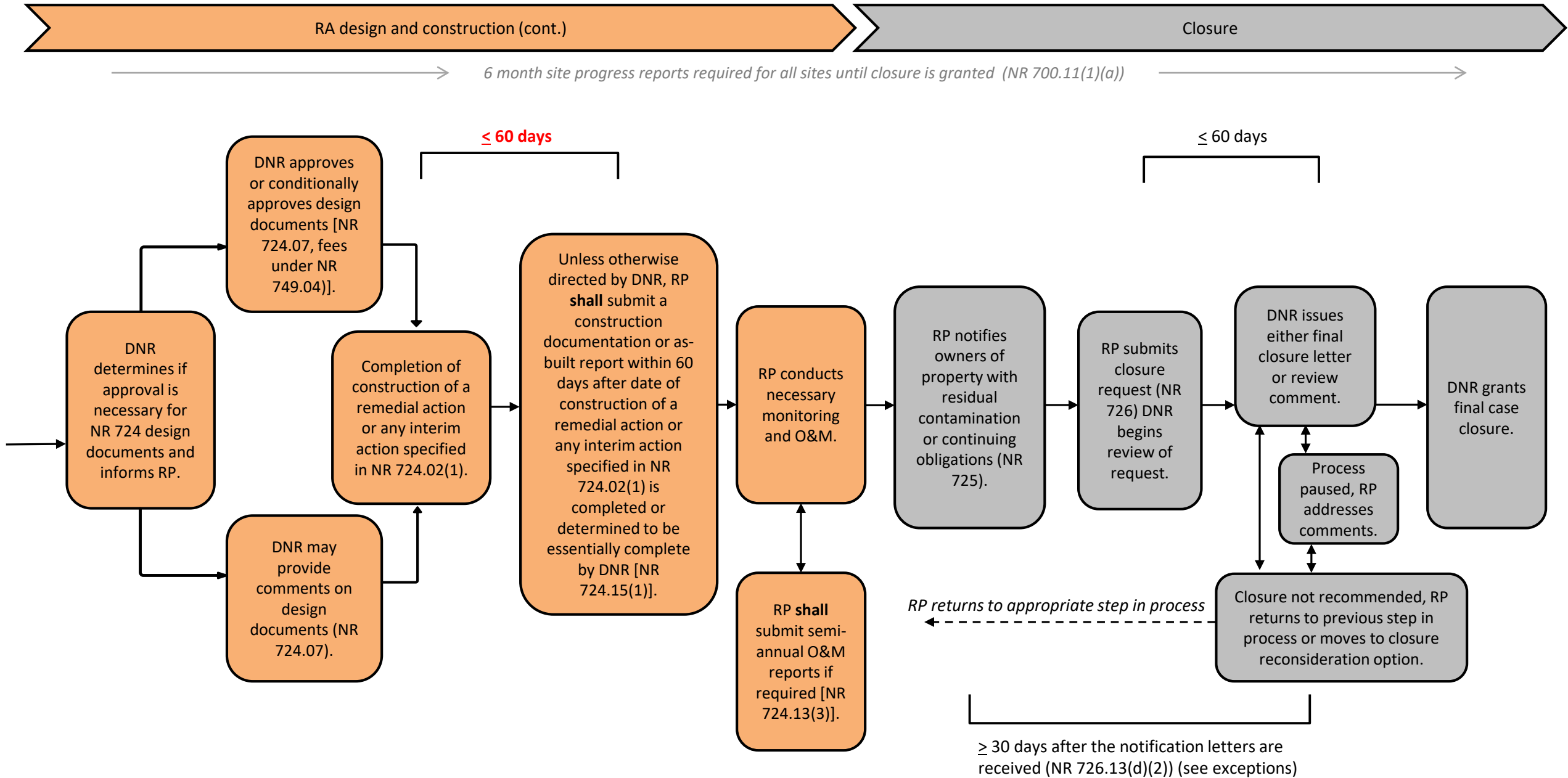


NR 700 Process & Timeline Overview*



cont. on page 2

***Bold red font indicates timelines required in administrative code.** **Disclaimer:** This document is intended solely as guidance and does not include mandatory requirements except where requirements found in statute or administrative rule are referenced. This guidance does not establish or affect legal rights or obligations and is not finally determinative of any of the issues addressed. This guidance does not create any rights enforceable by any party in litigation with the State of Wisconsin or the Department of Natural Resources. Any regulatory decisions made by the Department of Natural Resources in any manner addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.



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Environmental Contamination: The Basics

RR-674

September 2014

In an industrialized society like ours, a wide variety of contaminants are discharged to the environment every day from residential, commercial and industrial sources. Many of these discharges may not pose a threat to the public and the environment. However, a significant discharge of a contaminant or hazardous substance has the potential to impact human health or the environment. When a significant discharge occurs, the Wisconsin Department of Natural Resources (DNR), particularly the Remediation and Redevelopment Program (RR Program), provides oversight and assistance in making sure the public and the environment are protected.

A **Hazardous Substance**, as defined in s. 292.01, Wis. Stats., means any substance or combination of substances, including any waste of a solid, semisolid, liquid or gaseous form which may cause or significantly contribute to an increase in the mortality or an increase in serious irreversible or incapacitating reversible illness, or which may pose a substantial present or potential hazard to human health or the environment because of its quality, concentration or physical, chemical or infectious characteristics. This term includes, but is not limited to, substances that are toxic, corrosive, flammable, irritants, strong sensitizers or explosives as determined by the DNR.

What is the RR Program?

The RR Program becomes involved when a discharge of a hazardous or potentially hazardous substance occurs to the lands, waters or air in the State of Wisconsin. When a discharge is reported, the RR Program evaluates the severity of the discharge and, if necessary, ensures that the proper cleanup procedures are followed to minimize any threat to human health or the environment.

The RR Program also provides technical and regulatory assistance to public and private parties looking for information, investigating and cleaning up properties with real or perceived contamination. In certain circumstances, the DNR is required to charge a fee for technical assistance. Attention is provided to abandoned or underutilized properties, known as *brownfields*, in an effort to return these properties back to productive use. This effort also promotes the revitalization of blighted areas, as well as the reuse or redevelopment of properties already located in urban areas in order to preserve undeveloped land, also referred to as *greenfields*.

Why should I be concerned?

Not only is it a legal requirement to take necessary steps to address contamination, but contamination can have an adverse impact on human health and the environment. It can take many forms and can occur anywhere. In Wisconsin, two major concerns for environmental and public health impacts from contamination are the degradation of groundwater and vapor intrusion of chemicals. Soil, air and surface water contamination are also areas of concern. When a discharge to the environment has been identified, the DNR is mandated by state law to require response actions that are protective of human health, safety and welfare, and to restore the environment to the extent practicable.

An individual or local government may assume liability for environmental cleanups by acquiring a contaminated property, although there are exemptions for local governments that acquire properties by certain



Wisconsin Department of Natural Resources
PO Box 7921, Madison, WI 53707
dnr.wi.gov, search "Brownfield"



means. The Wisconsin Supreme Court has determined that if you own a contaminated property where contaminants are continuing to migrate, then you may be responsible for cleaning it up, even if you did not cause the contamination, because you are interpreted as having “possession and control” of the discharge.

Stressed vegetation, stained soils, odors, a sheen on the surface of water or a strange taste to water are often obvious indicators of a potential discharge or environmental problem. In addition to these more obvious factors, historical property usage such as plating operations, dry cleaners or engine repairs could also be indicative of other hidden environmental problems. For example, a serious environmental problem that is hard to detect is leakage from an underground storage tank (UST). Unless good records are kept regarding product usage, underground leaks are hard to identify.



What is a discharge?

A discharge to the environment is defined in s. 292.01, Wis. Stats., and means, but is not limited to, spilling, leaking, pumping, pouring, emitting, emptying or dumping. To obtain more information on what constitutes a hazardous substance discharge, refer to the Regulations listed in the “For more information” section on page three.

How is a discharge discovered?

Discharges to the environment are discovered in several ways. The most common methods of discovery are visual observation while the discharge is taking place (i.e. a leaking gas pump) or historical discharges discovered during building expansion or demolition, road construction activities, utility repairs or tank removal or upgrade activities.

Discharges can also be discovered at the time of property transfer if a potential buyer requests a Phase I or Phase II Environmental Site Assessment (ESA). A Phase I ESA consists of a historical search and identifies current and past property usage and areas of potential environmental concern. A Phase II ESA consists of collecting soil and groundwater samples at the property from those areas identified in the Phase I ESA with suspected or known contamination (i.e. areas of drum storage, stressed vegetation, stained soils, above and below ground storage tanks, etc.).

When do I need to report a discharge?

According to the “Spill Law,” s. 292.11, Wis. Stats., persons who cause, possess or control the discharge of a hazardous substance that adversely impacts, or threatens to adversely impact public health, welfare or the environment must immediately report the discharge to the DNR. Generally, this responsibility falls upon the current property owner. **Emergency spills must be immediately reported by calling the DNR 24-hour toll free Spill Hotline at 1-800-943-0003.** Non-emergency discharges discovered via a tank removal or environmental testing can be reported by completing and submitting the *Notification for Hazardous Substance Discharge* form (4400-225) or visiting your DNR regional headquarters in person during normal business hours (please see page 4 for contact information). If the testing was done as part of a Phase II ESA, report the discharge immediately upon discovery. Do not wait until a Phase II ESA report is completed to report a spill.

What happens next?

Once the DNR has been notified that contamination exists at a site, the DNR will inform the responsible party by telephone or mail if any further actions are needed. The range of actions is defined in the NR 700 rule series (referenced in the “For more information” section). The responsible party is then, in most cases, issued a responsible party letter that outlines legal responsibilities for addressing contamination. The letter will ask

the responsible party to hire a qualified environmental consultant. The consultant will submit a work plan that details how they will investigate the degree and extent of the contamination (if necessary, across property boundaries) by collecting soil or groundwater samples.

After determining the degree and extent of the contamination, the environmental consultant will prepare a site investigation report that summarizes the results of their findings. Typically, the consultant will also provide a cleanup strategy in this report. Cleanup measures are then undertaken by the consultant on behalf of the responsible party to restore the environment.

Once the site appears to meet all regulatory requirements, the consultant will prepare a closure request for DNR submittal. Once the appropriate fee has been submitted, the DNR reviews the closure request and determines whether or not the site has been cleaned up to acceptable levels. If closure is appropriate, the DNR or any other state agency with jurisdiction over the case will issue a closure letter indicating that the responsible party has complied with the conditions of closure.

What is a “Responsible Party?”

A responsible party is an individual or public or private entity who causes a discharge of a hazardous substance or who possesses or controls a hazardous substance which is discharged. The responsible party is legally required under Wisconsin’s Spill Law to notify the DNR of the discharge and to investigate and remediate the environment. There may be more than one responsible party at a site.

What is the role of an environmental consultant?

When the DNR informs you that you need to address contamination, you will be requested to hire the services of a professional environmental consultant. The role of the environmental consultant is to determine the most appropriate and cost effective way to investigate and remediate the contaminated site. The consultant should act as a representative for the responsible party on technical matters and should have a thorough understanding of regulatory requirements. It is important to feel comfortable with your environmental consultant, as they will be working closely with you and the DNR. Qualifications for environmental consultants are specified in ch. NR 712, Wis. Admin. Code. More information can be found in *Selecting an Environmental Consultant* (RR-502) at dnr.wi.gov/files/PDF/pubs/rr/RR502.pdf.

For more information...

The RR Program web site has many features to assist you. For example, you can locate DNR staff contacts, access DNR publications, obtain environmental information on specific properties or find information on financial incentives. The web site can be found at dnr.wi.gov/topic/Brownfields.

The following are just a few of the DNR resources can be found on the RR Program web site:

Information on Contaminated Sites:

- *BRRTS on the Web*, the RR Program’s list of open (still investigating) and closed (cleanup completed) contaminated sites in Wisconsin. dnr.wi.gov/topic/Brownfields/botw.html
- *RR Sites Map*, the RR Program’s web-based mapping system for contaminated and cleaned up sites dnr.wi.gov/topic/Brownfields/rsm.html

In addition, appointments to view paper copies of DNR files can be made by contacting your DNR regional headquarters at the telephone numbers listed below during normal business hours. Please be aware that some of our services require a fee. Please see our web site at dnr.wi.gov/topic/Brownfields/Fees.html for more information on fees.

Publications:

- [Environmental Services Contractors List \(RR-024\)](#)
- [Notification for Hazardous Discharge \(non-emergency\) \(4400-225\)](#)
- [Financial Resources Guide for Cleanup and Redevelopment \(RR-539\)](#)
- [Selecting an Environmental Consultant \(RR-502\)](#)
- [Voluntary Party Remediation and Exemption from Liability \(RR-506\)](#)

All Remediation and Redevelopment publications can be searched for at dnr.wi.gov/topic/Brownfields/Pubs.html.

Regulations:

- Hazardous Substance (Wisconsin State Statutes 292.01)
- Spills Law (Wisconsin State Statutes 292.11)
- Wisconsin Administrative Code Chapter NR 140
- Wisconsin Administrative Code Chapter NR 700 Rule Series

Regional Office Contacts

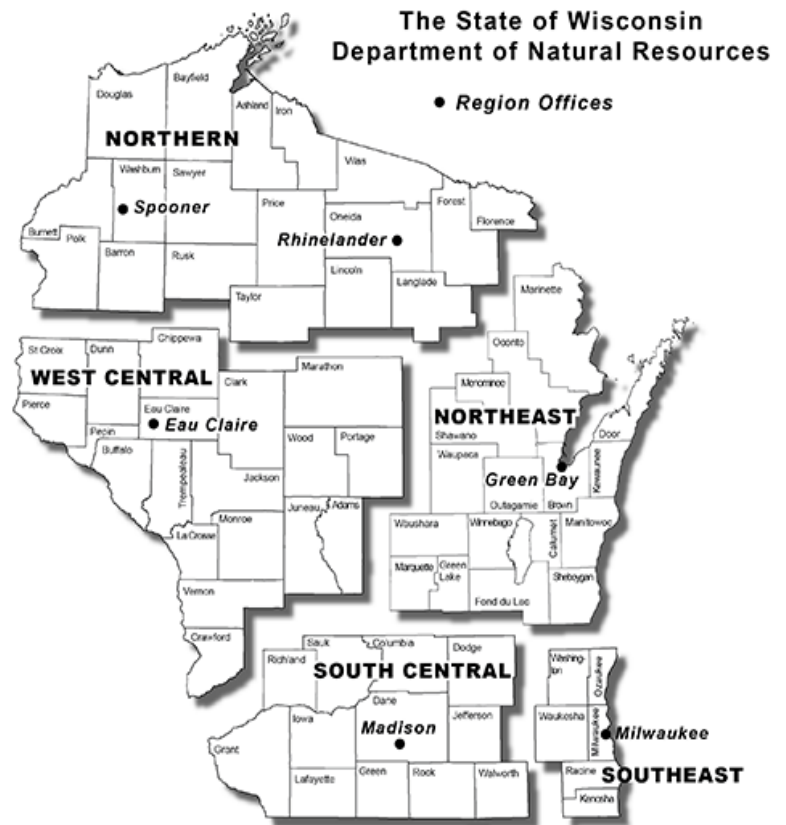
Northeast Region (NER, Green Bay)
920-662-5168

Northern Region (NOR, Antigo)
715-623-4190, ext. 3127

South Central Region (SCR, Fitchburg)
608-275-3212

Southeast Region (SER, Milwaukee)
414-263-8688, 414-263-8680

West Central Region (WCR, Eau Claire)
715-839-2784



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Selecting an Environmental Consultant

Purpose

The purpose of this document is to assist responsible parties in selecting a qualified environmental consultant. The document outlines the steps of hiring an environmental consultant, including potential questions to ask a consultant before hiring.

Why do I need a consultant?

If the Wisconsin Department of Natural Resources (DNR) notified you of your responsibility for the investigation and cleanup of soil, groundwater or other contaminated media under Wis. Stat. ch. 292, it is recommended that qualified professionals be hired to complete the required work. Wis. Admin. Code ch. NR 712 establishes qualifications for environmental consultants performing this type of work in Wisconsin.

Site investigations and cleanup of contamination or environmental pollution can be complex and costly. A qualified environmental consultant can help with investigating and cleaning up your property in accordance with state and federal regulations and act as a liaison between you and the DNR's Remediation and Redevelopment program (RR) staff.

A qualified, experienced consultant can:

- save time, money, and complete the project right the first time;
- help establish a cooperative relationship with regulatory agencies; and
- minimize down time for your business or land use.

Further, Wis. Admin. Code ch. NR 712 requires that some specific environmental work at a site be conducted by persons meeting certain qualifications.

How can I find a qualified consultant?

The DNR cannot endorse a specific environmental consultant or firm. However, the agency maintains a list of consultants who have identified themselves as doing environmental work in Wisconsin; see the DNR publication RR-024 "Environmental Services Contractors List." Other means of finding or selecting a consultant include calling businesses that have done environmental cleanups, contacting professional associations in which you are a member, or searching "environmental services" or "environmental engineers" on the web.

What should I tell a consultant when requesting a quote for services?

Tell the potential consultant as much as you can about your property. This will allow them to respond with a quote for the appropriate services. Information to provide to a potential consultant could include:

- the site history, including what types of businesses or land uses have existed at the property;
- materials and products used;
- materials and wastes that have been stored, recycled or disposed of;
- potential areas of contamination (e.g. the site of a previous disposal tank);
- current use of surrounding properties;

- requirements for the investigation and cleanup given by the DNR under Wis. Stat. ch. 292 and Wis. Admin. Code chs. NR 700 - 754;
- if you are in a state reimbursement program that may assist with the costs of investigation or cleanup; and
- the source of your water supply.

What should I ask a consultant?

When soliciting quotes for service, you may want to ask the potential consultant about their firm and experience, including:

- whether their staff meet the professional qualifications required in Wis. Admin. Code ch. NR 712 (e.g. whether any of their staff are licensed and registered as professional engineers and/or registered as hydrogeologists with the Wisconsin Department of Safety and Professional Services);
- how many years of experience they have doing environmental work in Wisconsin;
- how many similar investigations and cleanups they have completed in Wisconsin or elsewhere (cleaning up a leaking petroleum tank can be very different from cleaning up hazardous waste);
- what administrative rules they expect to follow (if a potential consultant is not familiar with the Wis. Admin. Code chs. NR 700-754, governing environmental cleanups or Wis. Admin. Code ch. NR 140, governing groundwater standards, it is an indication that they are not familiar with Wisconsin regulations);
- what level of insurance they carry for errors, omissions, and liability;
- whether they will help prepare requests for reimbursement if your cleanup is eligible; and
- whether they can provide references for you to contact.

Don't hesitate to ask a potential consultant why their approach to your environmental cleanup would differ from other consultants.

What questions should I ask when checking a consultant's references?

When checking the references of a potential consultant, you may want to ask the following questions:

- What tasks did the consultant perform for you, what was the size of the project, and what type of contamination did the consultant address (to compare how similar their project is to yours)?
- Did the consultant stay on schedule, or provide reasonable explanations for delays?
- Did the consultant keep you informed of the project's status, new developments and options for cleanup?
- If problems arose, were they resolved to your satisfaction?
- Did the consultant work effectively with the DNR (and local officials if relevant)?
- Were invoices or payment requests clear and timely?
- Did the consultant request approval in advance of billing for all significant changes to the original cost estimate?

What should I expect for the cost of a cleanup?

Costs for environmental cleanup vary widely based on the type and extent of contamination and the regulatory requirements. Ask the consultant what to expect for your situation. You may also want to ask these questions:

- Will subcontractors submit competitive bids?
- What hourly rates and overhead apply to professional staff?

- What are the per diem charges for staff doing field work?
- How often will I be billed?
- How will bills be itemized?

Watch for cost estimates that are significantly higher or lower than those received from other consultants. Ask those consultants how they can get the job done more economically, or whether they think proposals from other consultants are incomplete. Also compare proposed schedules for completion of work. There may be good reasons for faster cleanups, but make sure to understand those reasons. Sometimes the least disruptive and least costly cleanups, such as natural attenuation of contamination, take the longest.

It is important to understand the terms of a contract before signing, including who will be responsible for the work and the timing. Clarify that any changes in cost or work should be approved by you first, and that the contract includes language that allows contract termination at any time if you are not satisfied with the consultant's work.

Is financial help available?

Financial assistance may be available depending on your situation. Wisconsin offers certain loans, grants and reimbursement programs for various types of cleanups. Ask your consultant if you might be eligible for financial aid, and whether they have experience with these programs. For more information on available financial programs, visit dnr.wi.gov and search "brownfields".

What else should I know?

Wisconsin has numerous options to complete an environmental cleanup while enhancing the redevelopment and resale potential of your property. An experienced consultant can help to identify the best cleanup approach while meeting your business needs.

The DNR can also provide information and assistance. Please visit the Remediation and Redevelopment (RR) program website at dnr.wi.gov and search "brownfields" for more information on cleanups, financial assistance, liability tools and more. You may also want to review cleanup related DNR publications such as, *Environmental Contamination Basics, RR-674* and *Brownfields Basics – Tools for Cleaning Up and Redeveloping Contaminated Properties, RR-663*.

This document is intended solely as guidance and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. This guidance does not establish or affect legal rights or obligations and is not finally determinative of any of the issues addressed. This guidance does not create any rights enforceable by any party in litigation with the State of Wisconsin or the Department of Natural Resources. Any regulatory decisions made by the Department of Natural Resources in any matter addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.

The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Chief, Public Civil Rights, Office of Civil Rights, U.S. Department of the Interior, 1849 C. Street, NW, Washington, D.C. 20240.

This publication is available in alternative format (large print, Braille, etc.) upon request. Please call for more information. Note: If you need technical assistance or more information, call the Accessibility Coordinator at 608-267-7490 / TTY Access via relay - 711

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Company Name	Address 1	Address 2	City	Sta.	Zip	Phone #	Fax #
FROMM GEOPHYSICAL SURVEY	3173 MILLER RD		ABRAMS	WI	54101	(262) 242-4280	() -
EARTH SCIENCE & TECHNOLOGY LLC	N8598 CTH M		ALGOMA	WI	54201	(920) 487-3648	(920) 487-3674
KRUTZA LIME SPREADING LLC	6571 CTH Q		AMHERST	WI	54406	(715) 347-2556	(715) 824-2282
SAND CREEK CONSULTANTS INC	151 MILL ST	PO BOX 218	AMHERST	WI	54406	(715) 824-5169	(866) 608-6473
ENVIRON INTERNATIONAL CORP	4650 W SPENCER ST		APPLETON	WI	54914	(920) 882-6635	(920) 882-6637
ENVIRONMENTAL RESOURCES MANAGEMENT	4650 W SPENCER ST		APPLETON	WI	54914	(920) 882-8386	(920) 882-8388
MI TECH SVCS INC	118 N DURKEE ST		APPLETON	WI	54911	(715) 359-9400	() -
OMNNI ASSOCIATES INC	ONE SYSTEMS DR		APPLETON	WI	54914	(920) 735-6900	(920) 830-6100
SHORT ELLIOTT HENDRICKSON INC	425 W WATER ST STE 300		APPLETON	WI	54911	(920) 380-2800	(888) 908-8166
A & J LANDSCAPING CO INC	PO BOX 173		ASHIPPUN	WI	53003	(414) 491-0104	(262) 966-2089
STABLE SOLUTIONS LLC	71245 LINDAHL RD		ASHLAND	WI	54806	(715) 209-1006	(715) 682-0232
AYRES ASSOCIATES	3376 PACKERLAND DR		ASHWAUBENON	WI	54115	(920) 498-1200	(715) 831-7500
CT LABORATORIES	1230 LANGE CT		BARABOO	WI	53913	(608) 356-2760	(608) 356-2766
MSA PROFESSIONAL SVCS INC	1230 SOUTH BLVD	PO BOX 435	BARABOO	WI	53913	(608) 356-2771	(608) 356-2770
DESIGNTECH ENGINEERING LLC	910 GROVE ST		BEAVER DAM	WI	53916	(920) 887-312	() -
MSA PROFESSIONAL SVCS INC	201 CORPORATE DR		BEAVER DAM	WI	53916	(920) 887-4242	(920) 887-4250
BATTERMAN & CO	2857 BARTELLS DR		BELOIT	WI	53511	(608) 365-4464	(608) 365-1850
BROWNFIELD ENVIRONMENTAL ENGINEERING RESOURCES	645 THIRD ST STE 250		BELOIT	WI	53511	(608) 856-5434	(608) 856-5435
PETRASZAK EXCAVATING LTD	N8585 BIG ISLAND RD		BERLIN	WI	54923	(920) 361-0922	(920) 261-2049
JOE COULEE ENTERPRISES LTD	N26801 LINDSTROM RD		BLAIR	WI	54616	(608) 525-3720	(608) 525-3720
APPLIED ECOLOGICAL SVCS	17921 SMITH RD	PO BOX 256	BRODHEAD	WI	53520	(608) 897-8641	(608) 897-8486
APPLIED TECHNOLOGIES INC	16815 W WISCONSIN AVE		BROOKFIELD	WI	53005	(262) 784-7690	(262) 784-6847
ASSURED ENVIRONMENTAL ASSOCIATES INC	14120 W GLENDALE AVE		BROOKFIELD	WI	53005	(262) 781-4646	(262) 781-4180
BLS ENVIRONMENTAL INC	PO BOX 657		BROOKFIELD	WI	53008-0657	(414) 690-6685	() -
CB&I ENVIRONMENTAL & INFRASTRUCTURE	200 S EXECUTIVE DR STE 101		BROOKFIELD	WI	53005-4216	(414) 291-2350	(414) 291-2385
ENVIRO SAFE CONSULTING LLC	19395 W CAPITOL DR	SUITE 201	BROOKFIELD	WI	53405	(262) 790-2500	(262) 790-2560
KPRG & ASSOCIATES INC	14665 W LISBON RD STE 1A		BROOKFIELD	WI	53005	(262) 781-0475	(262) 781-0478
MI TECH SVCS INC	4125 N 124TH ST STE D		BROOKFIELD	WI	53005	(715) 359-9400	() -
RAMBOLL ENVIRON US CORPORATION	175 N CORPORATE DR	STE 160	BROOKFIELD	WI	53045	(262) 901-0099	(262) 901-0079
TETRA TECH INC	175 N CORPORATE DR STE 100		BROOKFIELD	WI	53045	(262) 792-1282	(262) 782-1310
TRC ENVIRONMENTAL CORP	150 N PATRICK BLVD	STE 180	BROOKFIELD	WI	53045	(262) 879-1212	(262) 879-1220
MIDWEST ENVIRONMENTAL CONSULTING LLC	N6395 E PARADISE RD		BURLINGTON	WI	53105	(262) 237-4351	() -
ENERGENECS INC	W59 N249 CARDINAL AVE		CEDARBURG	WI	53012	(262) 377-6306	(262) 377-1515

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GHD SERVICES INC	N70W6340 BRIDGE RD STE 307		CEDARBURG	WI	53012	(262) 421-8093	(262) 421-8093
KEY ENGINEERING GROUP LTD	W66 N215 COMMERCE CT		CEDARBURG	WI	53012	(262) 375-4750	(262) 375-9680
NOVA CONSULTING GROUP	2328 COVERED BRIDGE RD		CEDARBURG	WI	53012	(262) 269-0208	(952) 448-9572
TEMCO LLC	2088 WASHINGTON AVE		CEDARBURG	WI	53012	(262) 675-6000	(262) 675-6170
WILCOX ENVIRONMENTAL ENGINEERING INC	W63 N543 HANOVER AVE	STE A	CEDARBURG	WI	53012	(262) 387-0999	(262) 387-0999
AMERICAN ENGINEERING TESTING INC	1837 CTH OO		CHIPPEWA FALLS	WI	54729	(715) 861-5045	(715) 861-5048
SHORT ELLIOTT HENDRICKSON INC	10 N BRIDGE ST		CHIPPEWA FALLS	WI	54729	(715) 720-6200	(888) 908-8166
NORTHERN LAKE SERVICE INC	400 N LAKE AVE		CRANDON	WI	54520	(715) 478-2777	(715) 478-3060
FOTH INFRASTRUCTURE & ENVIRONMENT	2121 INNOVATION CT	STE 300	DE PERE	WI	54115-5126	() -	() -
SHORT ELLIOTT HENDRICKSON INC	501 MAPLE AVE		DELAFIELD	WI	52018	(262) 646-6855	(888) 908-8166
DOCKS & MARINAS INC	1304 RAEBROOKE LN		DEPERE	WI	541158028	(920) 621-3464	(866) 710-0893
GROUND SOURCE INC.	3671 MONROE RD		DEPERE	WI	54115	(920) 337-9600	(920) 336-5935
AYRES ASSOCIATES INC	3433 OAKWOOD HILLS PKWY		EAU CLAIRE	WI	54701-7698	(715) 834-3161	(715) 831-7500
JC NORBY & ASSOC	2115 E CLAIREMONT AVE		EAU CLAIRE	WI	54701	(715) 834-3953	(715) 834-5101
MINNESOTA PIPE & EQUIPMENT	2620 DAVEY ST		EAU CLAIRE	WI	54703	(800) 890-3831	(715) 839-0757
WRR ENVIRONMENTAL SVCS INC	5200 RYDER RD		EAU CLAIRE	WI	54701	(800) 669-4162	() -
ELM ENERGY LLC	13500 WATERTOWN PLANK RD	STE 100	ELM GROVE	WI	53122	(262) 786-1708	(262) 786-1740
MERIDIAN ENVIRONMENTAL CONSULTING	2711 N ELCO RD		FALL CREEK	WI	54742	(715) 832-6608	(715) 832-6797
DURAND COMPANIES	N12293 STH 13		FIFIELD	WI	54524	(715) 762-8538	(715) 339-4451
ENV PROPERTY SOLUTIONS	N14268 LOFDAHL RD	ATTN: BARB FLIETNER	FIFIELD	WI	54524	(715) 762-2512	(715) 762-2502
BADGER ENVIRONMENTAL SVCS	280 W NINTH ST		FOND DU LAC	WI	54935	(800) 433-1430	(920) 922-5854
ENGEL & ASSOC INC	N4737 STH 175		FOND DU LAC	WI	54937	(920) 929-9279	(920) 929-8754
MI TECH SVCS INC	46 S ROLLING MEADOWS DR		FOND DU LAC	WI	54937	(715) 359-9400	() -
OM ENTERPRISES INC	124 W SCOTT ST		FOND DU LAC	WI	54935	(262) 853-0712	(920) 923-3950
TRIMEDIA ENVIRONMENTAL & ENGINEERING LLC	81 N MAIN ST		FORT ATKINSON	WI	53538	(920) 568-9190	(920) 568-9195
ENDPOINT SOLUTIONS CORP	6871 S LOVERS LN		FRANKLIN	WI	53132	(414) 427-1200	(414) 427-1259
TERRACON CONSULTANTS INC	9856 S 57TH ST		FRANKLIN	WI	53132	(414) 423-0255	(414) 423-0566
MORAINES ENVIRONMENTAL INC	766 TOWER DR		FREDONIA	WI	53201	(262) 692-3345	() -
HIGH CLIFF CONSULTING LLC	PO BOX 176	19936 W. MILL ROAD	GALESVILLE	WI	54630	(608) 582-2205	() -
HIMALAYAN CONSULTANTS LLC	W156 N11357 PILGRIM RD		GERMANTOWN	WI	53022	(262) 502-0066	(262) 502-0077
HYDE ENVIRONMENTAL INC	W175N11163 STONEWOOD DR	STE 110	GERMANTOWN	WI	53022-6501	(262) 250-1226	(262) 317-9171
VEOLIA ENVIRONMENTAL SVCS	N104 W13275 DONGES BAY RD		GERMANTOWN	WI	53022	(800) 688-4005	() -
SENTINEL ENVIRONMENTAL SVCS	PO BOX 865		GRAFTON	WI	53024	(262) 375-8110	(262) 375-1972

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AECOM	2985 S RIDGE RD STE B		GREEN BAY	WI	54304	(920) 468-1978	(920) 468-3312
AMERICAN ENGINEERING TESTING INC	3194 MARKET ST STE C		GREEN BAY	WI	54304	(920) 347-1286	(920) 347-0596
BAY ENVIRONMENTAL STRATEGIES	2920 S WEBSTER	STE C	GREEN BAY	WI	54301	(920) 347-2234	(920) 347-2235
ENDEAVOR ENVIRONMENTAL SVCS INC	2280B SALSCHIEDER CT		GREEN BAY	WI	54313	(920) 437-2997	(920) 437-3066
GEI CONSULTANTS INC	3159 VOYAGER DR		GREEN BAY	WI	54311	(920) 455-8200	(920) 455-8225
GHD SERVICES INC	1400 LOMBARDI AVE STE 105		GREEN BAY	WI	54304	(920) 490-1663	(920) 490-1668
GOLDER ASSOCIATES	2247 FOX HEIGHTS LN	STE C	GREEN BAY	WI	54304	(920) 491-2500	(920) 491-2510
KU RESOURCES INC	419 BRETCOE DR		GREEN BAY	WI	54302	(920) 469-7971	(920) 337-8212
LA MAC INC	200 MATHER ST		GREEN BAY	WI	54303	(920) 433-9990	(920) 433-9981
MACH IV ENGINEERING & SURVEYING	211 N BROADWAY ST	STE 114	GREEN BAY	WI	54303	(920) 569-5765	(920) 569-5767
MI TECH SVCS INC	1700 INDUSTRIAL DR		GREEN BAY	WI	54937	(715) 359-9400	() -
NRP ENVIRONMENTAL CONSULTANTS	2357 PAMPERIN RD	STE 2	GREEN BAY	WI	54304	(920) 662-9212	(920) 434-6464
PACE ANALYTICAL SVCS INC	1241 BELLEVUE ST	STE 9	GREEN BAY	WI	54302	(920) 469-2436	(920) 469-8827
MARELL INC	E18763 STH 33		HILLSBORO	WI	54634	(608) 489-2546	(608) 489-3685
ROBERT E LEE & ASSOCIATES INC	1250 CENTENNIAL CENTRE BLVD		HOBART	WI	54155	(920) 662-9641	(920) 662-9141
PTS ENVIRONMENTAL DRILLING	4217 COMMERCIAL DR		JANESVILLE	WI	53545	(608) 371-4679	(888) 248-2957
ENVIRONMENTAL SVCS PLUS	PO BOX 187	W1734 KEN DALE DR	KAUKAUNA	WI	54130	(920) 766-6756	(920) 766-6776
CHEM REPORT INC	4515 WASHINGTON RD		KENOSHA	WI	53144	(262) 654-7020	(262) 654-7025
BRAUN INTERTEC CORP	2309 PALACE ST		LA CROSSE	WI	54603	(608) 781-7277	(608) 781-7279
DAVY ENGINEERING INC	115 6TH ST S	PO BOX 2076	LA CROSSE	WI	54602-	(608) 782-3130	(608) 784-6611
METCO ENVIRONMENTAL	709 GILLETTE ST	STE 3	LA CROSSE	WI	54603-2382	(608) 781-8879	(608) 781-8893
MIDWEST ENVIRONMENTAL MANAGEMENT CO, INC.	123 N 4TH ST	SUITE 202	LA CROSSE	WI	54601-3235	(608) 784-5688	(608) 784-7350
SHORT ELLIOTT HENDRICKSON INC	329 JAY ST STE 301		LA CROSSE	WI	54601-4034	(608) 782-3161	(888) 908-8166
THE OS GROUP LLC	444 21ST ST S		LA CROSSE	WI	54601	(608) 433-9389	(608) 433-9386
WASTE MANAGEMENT INC	415 ISLAND ST		LA CROSSE	WI	54603	(608) 784-1095	(608) 784-4464
SAGA ENVIRONMENTAL AND ENGINEERING INC	110 E LAKE ST #1		LAKE MILLS	WI	53551	(920) 674-3411	() -
SCHNEIDER EXCAVATING	20079 W MAIN ST	PO BOX 92	LANNON	WI	53046	(262) 251-4200	(262) 251-4216
AYRES ASSOCIATES	5201 E TERRACE DR	SUITE 200	MADISON	WI	53718	(608) 443-1200	(608) 299-2184
BAXTER & WOODMAN INC	5100 EASTPARK BLVD	SUITE 200	MADISON	WI	53718	(608) 241-5481	(608) 241-5491
CORNERSTONE ENVIRONMENTAL GROUP LLC	8413 EXCELSIOR DR SUITE 160		MADISON	WI	53717	(877) 294-9070	() -
DOUGLAS ENGINEERING ENVIRONMENTAL SVCS	3517 HARPER RD		MADISON	WI	53704	(608) 274-2314	(800) 722-4393
EC3 ENVIRONMENTAL CONSULTING GROUP INC	PO BOX 44281	3113 WINTER PARK PL	MADISON	WI	53744-4281	(608) 497-0955	(608) 497-0956
ECCS NATIONWIDE MOBILE LABORATORIES	2525 ADVANCED RD		MADISON	WI	53718	(608) 223-4418	(608) 221-4889

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GANNETT FLEMING INC	8025 EXCELSIOR DR		MADISON	WI	53717-1900	(608) 836-1500	(608) 837-3337
IVERTECH LLC	2880 JONATHAN CIR		MADISON	WI	53711	(608) 273-3751	(608) 273-3754
JJR LLC	625 WILLIAMSON ST		MADISON	WI	53703	(608) 251-1177	(608) 251-6147
LIESCH ENVIRONMENTAL	6000 GISHOLT DR	STE 203	MADISON	WI	53713	(608) 223-1532	(608) 223-1534
MI TECH SVCS INC	4001 FELLAND RD STE 108		MADISON	WI	53718	(715) 359-9400	() -
MSA PROFESSIONAL SVCS INC	2901 INTERNATIONAL LN	STE 300	MADISON	WI	53704	(608) 242-7779	(608) 242-5664
NEWFIELDS	2110 LUANN LN	STE 101	MADISON	WI	53713	(608) 442-5223	(608) 442-9013
RESOLUTION PARTNERS LLC	967 JONATHON DR		MADISON	WI	53713	(608) 669-1248	(608) 938-4500
SCS ENGINEERS	2830 DAIRY DR		MADISON	WI	53718-	(608) 224-2830	(608) 224-2839
SHANNON & WILSON INC	6506 SCHROEDER RD STE 201		MADISON	WI	53711	(608) 442-5223	(608) 442-9013
SHORT ELLIOTT HENDRICKSON INC	6808 ODANA RD STE 200		MADISON	WI	53719	(608) 620-6199	(888) 908-8166
SOILS & ENGINEERING SERVICES	1102 STEWART ST		MADISON	WI	53713	(608) 274-7600	(608) 274-7511
STRAND ASSOCIATES INC	910 W WINGRA DR		MADISON	WI	53715	(608) 251-4843	(608) 251-8655
TERRA ENGINEERING & CONSTRUCTION	2201 VOND RON RD		MADISON	WI	53718	(608) 221-3501	(608) 221-4075
TRC ENVIRONMENTAL CORP	708 HEARTLAND TRL	STE 3000	MADISON	WI	53717	(608) 826-3600	(608) 826-3941
TRIMEDIA ENVIRONMENTAL & ENGINEERING SVCS	4600 AMERICAN PKWY	STE 110	MADISON	WI	53718	(608) 819-8251	(608) 819-8744
TRUE NORTH CONSULTANTS INC	525 JUNCTION RD	STE 1900	MADISON	WI	53717	(608) 234-5092	(608) 237-2453
VIERBICHER ASSOCIATES INC	999 FOURIER DR	STE 201	MADISON	WI	53717	(608) 826-0532	(608) 826-0530
WILLIAMS ENVIRONMENTAL ASSOCIATES	220 FRIGATE DR		MADISON	WI	53705	(608) 238-7990	(608) 238-7970
WOOD	1008 FISH HATCHERY RD		MADISON	WI	53715	(608) 819-6680	() -
WPS USA	5957 MCKEE RD STE 7		MADISON	WI	53719	(608) 833-5555	() -
SESCO LLC	PO BOX 1476	1215 S 41ST ST	MANITOWOC	WI	54221-	(887) 737-2687	(920) 482-0087
STEINBRECHER & MENEAU INC	102 REVERE DR		MANITOWOC	WI	54220	(920) 684-5583	(920) 684-5584
ORIN REMEDIATION TECHNOLOGIES	4908 MEINDERS RD		MCFARLAND	WI	53558	(608) 838-6699	(608) 838-6695
SEYMOUR ENV SERVICES INC	PO BOX 398	2531 DYRESON RD	MCFARLAND	WI	53558	(608) 838-9120	(608) 838-9121
MARTENSON & EISELE INC	PO BOX 449	1377 MIDWAY RD	MENASHA	WI	54952-	(920) 731-0381	(920) 733-8578
NATURAL RESOURCES CONSULTING INC	702 MIDWAY RD		MENASHA	WI	54952	(920) 558-4393	() -
VEOLIA NORTH AMERICA	W124 N9451 BOUNDARY RD		MENOMONEE FALLS	WI	53051	(262) 255-6655	(262) 255-7990
AMERICAN ENGINEERING TESTING INC	602 W SECOND ST		MENOMONIE	WI	54751	(715) 235-8844	(715) 235-4666
CEDAR CORPORATION	604 WILSON AVE		MENOMONIE	WI	54751	(715) 235-9081	(715) 235-2727
GEOSYNTEC CONSULTANTS	10600 N PORT WASHINGTON RD, STE 10		MEQUON	WI	53092	(262) 377-9828	(262) 377-9848
STANTEC CONSULTING SVCS INC	12075 N CORPORATE PKWY	STE 200	MEQUON	WI	53092-2649	(262) 241-4466	() -
AECOM	1350 DEMING WAY	STE 100	MIDDLETON	WI	53562	(608) 836-9800	(608) 836-9767

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MIDWEST ENVIRONICS INC	7121 SPRING HILL DR		MIDDLETON	WI	53562	(608) 831-8838	() -
RESOURCE ENGINEERING ASSOCIATES INC	3510 PARMENTER STREET	STE 100	MIDDLETON	WI	53562-1535	(608) 831-5522	(608) 831-6564
AECOM	1555 N RIVERCENTER DR	STE 214	MILWAUKEE	WI	53212	(414) 944-6080	(414) 944-6081
ARCADIS	126 N JEFFERSON ST	STE 400	MILWAUKEE	WI	53202	(414) 276-7742	(414) 276-7603
ATC ASSOCIATES	5307 S 92ND ST STE 123		MILWAUKEE	WI	53130	(414) 858-9320	() -
BAAKE FIELD SERVICES LLC	5256 N 27TH ST		MILWAUKEE	WI	53209	(414) 292-7569	() -
BLOOM COMPANIES LLC	10501 W RESEARCH DR	STE 100	MILWAUKEE	WI	53226	(414) 771-3390	(414) 771-4490
BROWN AND CALDWELL	250 E WISCONSIN AVE	SUITE 1525	MILWAUKEE	WI	53202	(414) 273-8800	(414) 273-2692
BURNS & MCDONNELL	5007 S HOWELL AVE	STE 210	MILWAUKEE	WI	53207	(414) 489-0154	(414) 489-0457
CH2M HILL INC	135 S 84TH ST STE 400	PO BOX 2090	MILWAUKEE	WI	53214	(414) 272-2426	(414) 272-4408
ENGINEERING & PROCESSES INC	12255 W OHIO AVE		MILWAUKEE	WI	53227	(414) 545-0519	(414) 491-6574
ERM - ENVIRONMENTAL RESOURCES MANAGEMENT	700 W VIRGINIA ST	SUITE 601	MILWAUKEE	WI	53204	(414) 289-9505	(414) 289-9552
FRIESS ENVIRONMENTAL CONSULTING INC	6635 N SIDNEY PL		MILWAUKEE	WI	53209	(414) 228-9815	(414) 228-9816
GZA GEOENVIRONMENTAL INC	247 W FRESHWATER WAY	STE 542	MILWAUKEE	WI	53204	(414) 988-8712	() -
HEY & ASSOCIATES INC	9401 W BELOIT RD STE 210		MILWAUKEE	WI	53227	(414) 327-0440	(847) 740-2888
J SPEAR ASSOCIATES INC	325 W VINE ST		MILWAUKEE	WI	53212	(414) 263-2122	(414) 435-3110
KAPUR & ASSOCIATES	7711 N PORT WASHINGTON RD		MILWAUKEE	WI	53217	(414) 351-6668	(414) 351-4117
KEY ENGINEERING GROUP LTD	735 N WATER ST	SUITE 510	MILWAUKEE	WI	53202	(414) 224-8300	(414) 224-8383
LF GREEN DEVELOPMENT LLC	5600 W BROWN DEER RD	STE 120	MILWAUKEE	WI	53223	(414) 254-4814	(414) 375-4098
MIDWEST RAIL & DISMANTLING	4777 W LINCOLN AVE		MILWAUKEE	WI	53219	(414) 672-4244	(414) 672-4226
NATURAL RESOURCE TECHNOLOGY INC (OBG CO)	234 W FLORIDA ST	FIFTH FLOOR	MILWAUKEE	WI	53204	(262) 523-9000	(262) 523-9001
PARSIZ GROUP LLC	3939 N MURRAY AVE #205		MILWAUKEE	WI	53211	() -	() -
REESE GROUP THE	310 E BUFFALO ST STE 106		MILWAUKEE	WI	53202	() -	() -
SHORT ELLIOTT HENDRICKSON INC	316 N MILWAUKEE ST STE 302		MILWAUKEE	WI	53202	(414) 465-1200	(888) 908-8166
SPECTRUM TECHNOLOGIES GROUP LLC	PO BOX 170323		MILWAUKEE	WI		(414) 731-5375	() -
SYMBIONT	6737 W WASHINGTON ST	STE 3440	MILWAUKEE	WI	53214	(414) 291-8840	(414) 291-8841
T N & ASSOCIATES INC	1033 N MAYFAIR RD	STE 200	MILWAUKEE	WI	53226	(414) 257-4200	(414) 257-2492
THE SIGMA GROUP INC	1300 W CANAL ST		MILWAUKEE	WI	53233	(414) 643-4200	(414) 643-4210
WESTON SOLUTIONS INC	322 E MICHIGAN ST	STE 200	MILWAUKEE	WI	53202	(414) 347-1697	(414) 347-1850
FEHR GRAHAM & ASSOC	1107 16TH AVE		MONROE	WI	53566	(608) 329-6400	(608) 235-2797
PIONEER ENVIRONMENTAL INC	203 1/2 E MAIN ST	PO BOX 102	MOUNT HOREB	WI	53572	(608) 437-3900	(608) 437-3400
CERTIFIED ENVIRONMENTAL SOLUTIONS LLC	PO BOX 366		MUKONAGO	WI	53149	(262) 800-8520	() -
NATIONAL TANK SERVICE	W150 S8234 HARVEST CT		MUSKEGO	WI	53150	() -	() -

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BADGER LABS & ENGINEERING	501 W BELL ST		NEENAH	WI	54956-4868	(920) 729-1100	(920) 729-4945
JJ KELLER & ASSOC INC	PO BOX 368	3003 BREEZEWOOD LN	NEENAH	WI	54957	(920) 722-2848	(800) 727-7516
MCMAHON ASSOC INC	PO BOX 1025	1445 MCMAHON DR	NEENAH	WI	54957-	(920) 751-4200	(920) 751-4284
RIVER VALLEY TESTING CORP	1060 BREEZEWOOD LN	STE 102	NEENAH	WI	54956	(920) 886-1406	(920) 886-1409
DAKOTA INTERTEK CORP	16600 W NATIONAL AVE		NEW BERLIN	WI	53151	(262) 784-8844	(262) 784-8833
UNITED ENGINEERING CONSULTANTS INC	16237 W RYERSON RD		NEW BERLIN	WI	53151	(262) 785-1447	(262) 706-4400
SHORT ELLIOTT HENDRICKSON INC	156 HIGH ST STE 300		NEW RICHMOND	WI	54017	(715) 246-9906	(888) 908-8166
WOOD	46850 MAGELLAN DR #190		NOVI	WI	48377	(248) 926-4008	() -
APPLIED ENVIRONMENTAL SOLUTIONS	N62 W37644 PARKVIEW DR		OCONOMOWOC	WI	53066-1718	(414) 507-5571	(262) 560-1963
TERRYS EXCAVATING INC	S15W33816 WOLF RD	STE B	OCONOMOWOC	WI	53066	(262) 968-4772	(262) 968-4775
JP ENVIRONMENTAL	2093 CTH NN		OCONTO	WI	54153	(920) 834-0268	(920) 834-2605
AECOM	558 N MAIN ST		OSHKOSH	WI	54901	(920) 235-0270	(920) 235-0321
VALLEY ENVIRONMENTAL RESPONSE	PO BOX 1280		OSHKOSH	WI	54903	(800) 745-1865	() -
READY EARTH CONSULTING INC	PO BOX 365		PEWAUKEE	WI	53072	(262) 522-3520	() -
CORNERSTONE ENVIRONMENTAL GROUP LLC	435 E MILL ST STE 15		PLYMOUTH	WI	53073	(920) 892-7643	() -
KONICEK ENVIRONMENTAL CONSULTING LLC	1032 S SPRING ST		PORT WASHINGTON	WI	53074	(262) 284-2557	(262) 284-1728
GENERAL ENGINEERING CO INC	916 SILVER LAKE DR	PO BOX 340	PORTAGE	WI	53901	(608) 742-2169	(608) 742-2592
VIERBICHER ASSOCIATES INC	PO BOX 542	126 BLACKHAWK AVE	PRAIRIE DU CHIEN	WI	53821	(608) 326-1051	(608) 326-1052
EDGE CONSULTING ENGINEERS INC	624 WATER ST		PRAIRIE DU SAC	WI	53578	(608) 644-1449	(262) 644-1549
A W OAKES AND SON INC	2000 OAKES RD		RACINE	WI	53406	(262) 886-1077	(262) 886-1897
ENVIRONMENTAL AUDITS INC	1409 HILLCREST CIR		RACINE	WI	53406	(262) 634-0641	() -
VIERBICHER ASSOCIATES INC	PO BOX 379	400 VIKING DR	REEDSBURG	WI	53959	(608) 524-6468	(608) 524-8218
GHD SERVICES INC	PO BOX 661		RHINELANDER	WI	54501	(612) 900-8588	() -
MSA PROFESSIONAL SVCS INC	1835 N STEVENS ST		RHINELANDER	WI	54501-	(715) 362-3244	(715) 362-4116
SAND CREEK CONSULTANTS INC	108 E DAVENPORT ST		RHINELANDER	WI	54501	(715) 365-1818	(866) 608-6473
COOPER ENGINEERING CO INC	PO BOX 230	2600 COLLEGE DR	RICE LAKE	WI	54868-0230	(715) 234-7008	(715) 234-1025
NATURAL RESOURCES CONSULTING INC	610B WEST AVE		RICE LAKE	WI	54868	(715) 736-1438	() -
SHORT ELLIOTT HENDRICKSON INC	1701 W KNAPP ST STE B		RICE LAKE	WI	54868-1350	(715) 236-4000	(888) 908-8166
SIEMENS WATER TECHNOLOGIES	301 W MILITARY RD		ROTHSCHILD	WI	54474	(715) 359-7226	(715) 335-3221
RAMAKER & ASSOCIATES INC	855 COMMUNITY DR		SAUK CITY	WI	53583	(608) 643-4100	(608) 643-7999
CLEAN HARBORS ENVIRONMENTAL SVCS	902 S MAIN ST		SAUKVILLE	WI	53080	(262) 284-3427	() -
AMERICAN ENGINEERING TESTING INC	4203 SCHOFIELD AVE		SCHOFIELD	WI	54476	(715) 359-3534	(715) 359-4032
TETRA TECH INC	5404 ALDERSON ST	STE 100	SCHOFIELD	WI	54476	(715) 355-4180	(715) 359-2853

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CARDINAL ENVIRONMENTAL INC	3303 PAINE AVE		SHEBOYGAN	WI	53020	(920) 459-2500	(920) 459-2503
FEHR GRAHAM ENGINEERING & ENVIRONMENTAL	909 N 8TH ST STE 101		SHEBOYGAN	WI	53081	(920) 453-0700	(920) 453-0750
MILLER ENGINEERS & SCIENTISTS	5308 S 12TH ST		SHEBOYGAN	WI	53081	(920) 458-6164	(920) 458-0369
SHORT ELLIOTT HENDRICKSON INC	809 N 8TH ST STE 205		SHEBOYGAN	WI	53081-4032	(920) 452-6603	(888) 908-8166
VEOLIA ENVIRONMENTAL SVCS	PO BOX 169	2905 PAINE AVE	SHEBOYGAN	WI	53081	(920) 459-2711	(920) 458-0936
AECOM	200 INDIANA AVE		STEVENS POINT	WI	54481	(715) 341-8110	(715) 341-7390
NATURAL RESOURCES CONSULTING INC	2841 STANLEY ST		STEVENS POINT	WI	54481	(715) 344-9480	() -
NUMMELIN TESTING SVCS	PO BOX 127	3217 WHITING AVE	STEVENS POINT	WI	54481	(715) 341-7974	(715) 341-8654
CRAIG ENVIRONMENTAL LLC	524 HAMILTON ST		STOUGHTON	WI	53589	() -	(608) 873-3644
GABRIEL ENVIRONMENTAL SERVICES	1500 S SYLVANIA AVE STE112		STURTEVANT	WI	53177	(262) 886-9505	(262) 886-9510
RIVERS BEND ENGINEERING INC	1611 RENAISSANCE BLVD	STE 203	STURTEVANT	WI	53177	(262) 886-3882	(262) 886-4458
ATC ASSOCIATES INC	1223 W MAIN ST		SUN PRAIRIE	WI	53590	(608) 825-2757	(608) 834-0866
AMI CONSULTING ENGINEERS	91 MAIN ST		SUPERIOR	WI	54880	(715) 718-2193	() -
TWIN PORTS TESTING	1301 N 3RD ST		SUPERIOR	WI	54880	(715) 392-7114	() -
DRAKE CONSULTING GROUP LLC	118 N GREEN BAY RD STE 2		THIENSVILLE	WI	53092	(262) 241-0005	(262) 241-0006
S & E ENTERPRISES	PO BOX 930249		VERONA	WI	53593	(608) 845-8909	(608) 845-8979
TRINITY ENVIRONMENTAL EQUIPMENT INC	7632 SUMMERFIELD DR		VERONA	WI	53596	(608) 827-5447	() -
BLS ENVIRONMENTAL INC	W4877 BANON RD		WATERTOWN	WI	53098	(414) 690-6685	() -
BREESE & ASSOCIATES	625 CHADWICK DR		WATERTOWN	WI	53094	(414) 704-9969	() -
AYRES ASSOCIATES	N17 W24222 RIVERWOOD DR	STE 310	WAUKESHA	WI	53188	(262) 523-4488	(262) 523-4477
ENVIROFORENSICS	N16 W23390 STONE RIDGE DR	STE G	WAUKESHA	WI	53188	(262) 290-4001	(262) 510-0460
GILES ENGINEERING ASSOCIATES INC	N8 W22350 JOHNSON RD STE A1		WAUKESHA	WI	53186	(262) 544-0118	(262) 549-5868
GZA GEOENVIRONMENTAL INC	20900 SWENSON DR STE 150		WAUKESHA	WI	53186	(262) 754-2571	(262) 754-9711
LANDMARK ENGINEERING SCIENCES INC	119 COOLIDGE AVE	STE 100	WAUKESHA	WI	53188	(414) 719-2769	() -
NORTHERN EQUIPMENT COMPANY	W222 N610 CHEANEY DR		WAUKESHA	WI	53186	(262) 549-9610	() -
PROFESSIONAL SERVICE INDUSTRIES INC (PSI)	821 CORPORATE CT STE 102		WAUKESHA	WI	53189	(262) 521-2125	() -
REI ENGINEERING INC	4080 N 20TH AVE		WAUSAU	WI	54401	(877) 734-7745	(715) 675-4060
K SINGH & ASSOCIATES INC	3636 N 124TH ST		WAUWATOSA	WI	53222	(262) 821-1171	(262) 821-1174
ENVIRONMENTAL AUDITS INC	11327 W LINCOLN AVE		WEST ALLIS	WI	53227	(414) 491-4282	(414) 231-9374
FOTH INFRASTRUCTURE & ENVIRONMENT LLC	2514 S 102ND ST	STE 278	WEST ALLIS	WI	53227	(414) 336-7900	(414) 336-7901
MI TECH SVCS INC	5707 SCHOFIELD AVE	PO BOX 107	WESTON	WI	54476	(715) 359-9400	(715) 355-4199
YAEGER AUTO SALVAGE INC	9205 HWY X		WESTON	WI	54476	(715) 359-3606	(715) 355-0469
COVANTA ENVIRONMENTAL SERVICES	210 TOWER ROAD		WINNECONNE	WI		(920) 582-7596	() -

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GERSHMAN BRICKNER & BRATTON INC	8550 ARLINGTON BLVD	STE 203	FAIRFAX	VA	20031	(703) 53--800	(703) 698-1306
STRATA ENVIRONMENTAL	110 PERIMETER PARK SUITE E		KNOXVILLE	TN	37922	(865) 553-9207	(865) 539-3970
SHORT ELLIOTT HENDRICKSON INC	401 E 8TH ST STE 309		SOUIX FALLS	SD	57103-	(605) 330-7000	(888) 908-8166
CARLUCCI CONSTRUCTION CO	401 MEADOW ST		CHESWICK	PA	15024	(724) 274-5707	(724) 274-5831
AMERICAN GEOSCIENCES INC	3925 REED BLVD	SUITE 400	MURRYSVILLE	PA	15668-	(724) 733-7003	(724) 733-1003
REAL WORLD MANAGEMENT SOLUTIONS	PO BOX 1143		OKLAHOMA CITY	OK	73101	(405) 401-4443	(405) 751-5186
ENVIRONMENTAL ENTERPRISES INC	10163 CINCINNATI DAYTON PIKE		CINCINNATI	OH	45141	(800) 722-2818	(513) 782-8950
MI TECH SVCS INC	10701 ROYALTON RD STE E		NORTH ROYALTON	OH	44133	(715) 359-9400	() -
ARCADIS	6723 TOWPATH RD		SYRACUSE	NY	13214	(315) 671-9374	() -
SHORT ELLIOTT HENDRICKSON INC	416 S 6TH ST STE 200		BRAINERD	MN	56401	(218) 855-1700	(888) 908-8166
CARBONAIR SVCS INC	7500 BOONE AVE N	STE 101	BROOKLYN PARK	MN	55428	(763) 315-4771	(763) 315-4614
PRODUCT LEVEL CONTROL INC	11929 PORTLAND AVE S		BURNSVILLE	MN	55337	(612) 707-4101	(612) 707-1075
NOVA CONSULTING GROUP INC	1107 HAZELTINE BLVD STE 400		CHASKA	MN	55318	(612) 448-9393	(952) 448-9572
MILLSOP ASSOCIATES INC	PO BOX 236	35797 DOLNEY LAKE RD	CROSBY	MN	56441	(218) 763-2907	(218) 763-2908
AECOM	11 E SUPERIOR ST STE 150		DULUTH	MN	55802	(218) 625-8766	(218) 625-2201
AMERICAN ENGINEERING TESTING INC	4431 W MICHIGAN ST	STE 4	DULUTH	MN	55807	(218) 628-1518	(218) 628-1580
BARR ENGINEERING CO	325 S LAKE AVE	STE 700	DULUTH	MN	55802	(218) 529-8200	(218) 529-8202
ENVIRONMENTAL TROUBLESHOOTERS INC	3825 GRAND AVE		DULUTH	MN	55807	(218) 722-6013	(218) 722-6319
FOSTER JACOBS & JOHNSON	345 CANAL PARK DR	STE 200	DULUTH	MN	55802	(218) 722-3060	(218) 722-1931
MSA PROFESSIONAL SVCS INC	301 W FIRST ST	STE 408	DULUTH	MN	55802	(218) 722-3915	(218) 722-7548
SHORT ELLIOTT HENDRICKSON INC	418 W SUPERIOR ST STE 200		DULUTH	MN	55802	(888) 722-0547	(888) 908-8166
GROUNDWATER & ENVIRONMENTAL SERVICES INC	1301 CORPORATE CENTER DR	STE 190	EAGAN	MN	55121	(800) 735-1077	(651) 405-1036
ENVIRONMENTAL TROUBLESHOOTERS INC	416 FAYAL ROAD	SUITE A	EVELETH	MN	55734	(218) 744-0128	(218) 744-0771
CANAMER SVCS INC	PO BOX 38	115 N SHORE DR	FOUNTAIN CITY	MN	54629	(800) 676-6376	(608) 687-9901
SHORT ELLIOTT HENDRICKSON INC	21 NE 5TH ST STE 200		GRAND RAPIDS	MN	55744	(218) 322-4500	(888) 908-8166
ALL PHASE COMPANIES INC	404 A ST CROIX TRL N		LAKELAND	MN	55043	(612) 436-2930	(612) 436-3918
MI TECH SVCS INC	22100 PILLSBURY AVE		LAKEVILLE	MN	55044	(715) 359-9400	() -
AMERICAN ENGINEERING TESTING INC	1730 FIRST AVE		MANKATO	MN	56001	(507) 387-2222	() -
SHORT ELLIOTT HENDRICKSON INC	11 CIVIC CENTER PLAZA STE 200		MANKATO	MN	560017710	(507) 388-1989	(888) 908-8166
PINNACLE ENGINEERING INC	11541 95TH AVE N		MAPLE GROVE	MN	55369	(763) 315-4501	(763) 315-4507
BERGERSON CASWELL INC	5115 INDUSTRIAL ST		MAPLE PLAIN	MN	55359	(612) 479-3121	(612) 479-2183
AECOM	800 LASALLE AVE	STE 500	MINNEAPOLIS	MN	55402	(612) 376-2000	(612) 376-2271
BARR ENGINEERING CO	4300 MARKETPOINT DR	STE 200	MINNEAPOLIS	MN	55435-	(952) 832-2600	(952) 832-2601

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BRAUN INTERTEC CORPORATION	11001 HAMPSHIRE AVE S		MINNEAPOLIS	MN	55438	(952) 995-2000	(652) 995-2020
WOOD	800 MARQUETTE AVE STE 1200		MINNEAPOLIS	MN	55402	(612) 252-3641	() -
SHORT ELLIOTT HENDRICKSON INC	10901 RED CIRCLE DR STE 300		MINNETONKA	MN	55343	(952) 912-2600	(888) 908-8166
WEST CENTRAL ENVIRONMENTAL CONSULTANTS (WCEC)	14 GREEN RIVER RD	PO BOX 594	MORRIS	MN	56267	() -	() -
GEI CONSULTANTS	550 MAIN ST	STE 290	NEW BRIGHTON	MN	55112	(952) 885-7101	(651) 846-4937
BRK ENVIRONMENTAL CONSULTING INC	12453 67TH ST NE		OTSEGO	MN	55330	(763) 777-9466	() -
AMERICAN ENGINEERING TESTING INC	1937 7TH ST NW	STE 1	ROCHESTER	MN	55901	(507) 281-3547	(507) 281-4941
SHORT ELLIOTT HENDRICKSON INC	717 THIRD AVE SE		ROCHESTER	MN	55904	(507) 288-6464	(507) 288-5058
SHORT ELLIOTT HENDRICKSON INC	1200 25TH AVE S		ST CLOUD	MN	56302	(800) 572-0617	(888) 908-8166
MI TECH SVCS INC	5450 QUAM AVE NE STE 140		ST MICHAEL	MN	55376	(715) 359-9400	() -
AMERICAN ENGINEERING TESTING INC	550 CLEVELAND AVE N		ST PAUL	MN	55114	(651) 659-9001	(651) 659-1379
BAY WEST LLC	5 EMPIRE DRIVE		ST PAUL	MN	55103-1867	(651) 291-0456	(651) 291-0099
DPRA INC	332 MINNESOTA ST	STE E1500	ST PAUL	MN	55101	(615) 227-6500	(615) 227-5522
DYNEX	4755 MUSTANG DR		ST PAUL	MN	55112	(763) 717-3100	(763) 784-5397
GHD SVC INC	1801 OLD HWY 8 NW STE 114	FORMERLY CONESTOGA	ST PAUL	MN	55112	(651) 639-0913	() -
MIDWEST NATURAL RESOURCES INC	1032 W 7TH ST STE 150		ST PAUL	MN	55102	(612) 310-6260	() -
SHORT ELLIOTT HENDRICKSON INC	3535 VADNAIS CENTER DR		ST PAUL	MN	55110-5196	(612) 490-2000	(888) 908-8166
SUMMIT ENVIROSOLUTIONS	1217 BANDANA BLVD		ST PAUL	MN	55108	(651) 644-8080	(651) 647-0888
SHORT ELLIOTT HENDRICKSON INC	615 9TH ST N		VIRGINIA	MN	55792	(218) 741-4284	(888) 908-8166
STANTEC CONSULTING SVCS INC	4463 WHITE BEAR PKWY	STE 106	WHITE BEAR LAKE	MN	55110	(651) 255-5050	(651) 255-5060
TERRACON CONSULTANTS	3535 HOFFMAN RD E		WHITE BEAR LAKE	MN	55110-5376	(612) 770-1500	(612) 770-1657
JJR LLC	110 MILLER AVE		ANN ARBOR	MI	48104	(734) 662-4457	(734) 662-7520
EA ENGINEERING SCIENCE AND TECHNOLOGY	5918 MERIDIAN BLVD STE 4		BRIGHTON	MI	48116	(734) 369-3410	() -
COLEMAN ENGINEERING CO	635 CIRCLE DR		IRON MOUNTAIN	MI	49801	(906) 774-3440	(906) 774-7776
TAPLIN ENVIRONMENTAL CONTRACTING CORP	5100 W MICHIGAN AVE		KALAMAZOO	MI	49006	(269) 375-9595	(269) 375-2830
BUREAU VERITAS NORTH AMERICA INC	22345 ROETHEL DR		NOVI	MI	48375	(248) 344-2669	() -
NORTH AMERICAN AQUA ENVIRONMENTAL LLC	17397 BLACK ST	P.O. BOX 130	VANDALIA	MI	49095	(800) 833-5553	(269) 476-2251
ATC ENVIRONMENTAL CONSULTANTS	7988 CENTERPOINT DR	SUITE 100	INDIANAPOLIS	IN	46256	(317) 849-4990	(317) 849-4278
SHORT ELLIOTT HENDRICKSON INC	9200 CALUMET AVE STE N 300		MUNSTER	IN	46321	(219) 513-2500	(888) 908-8166
GROUNDWATER & ENVIRONMENTAL SERVICES (GES)	1050 CORPORATE BLVD STE C	SUITE C	AROURA	IL	60504	(630) 585-5156	(630) 585-5359
ECS MIDWEST LLC	1575 BARCLAY BLVD STE 1050		BUFFALO GROVE	IL	60089	(847) 279-0366	(847) 279-0369
TESTING SERVICE CORP	360 S MAIN PL		CAROL STREAM	IL	60188	(630) 462-2600	(630) 653-2988
A T KEARNEY INC	222 W ADAMS ST	STE 2300	CHICAGO	IL	60606	(312) 648-0111	(312) 223-6200

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BLACK & VEATCH	101 N WACKER	STE 1100	CHICAGO	IL	60606	(312) 346-3775	(312) 346-4781
GRAEF ANHALT SCHLOEMER & ASSOC	8501 W HIGGINS RD		CHICAGO	IL	60631	(773) 399-0112	() -
MACTEC ENGINEERING & CONSULTING INC	8745 W HIGGINS RD	STE 300	CHICAGO	IL	60301	(773) 693-6030	(773) 693-6039
TRC ENVIRONMENTAL CORP	230 W MONROE ST	STE 2300	CHICAGO	IL	60606	(312) 578-0870	(312) 578-0877
VEOLIA ENVIRONMENTAL SVCS	200 E RANDOLPH ST	STE 7900	CHICAGO	IL	60601	() -	() -
WESTON SOLUTIONS INC	20 N WACKER DR	STE 1210	CHICAGO	IL	60606-2901	(312) 424-3300	(312) 424-3300
PSC ENVR SERV	210 W SAND BANK RD		COLUMBIA	IL	62236	(618) 281-1546	(618) 281-7020
EA ENGINEERING SCIENCE & TECHNOLOGY	444 LAKE COOK RD	STE 18	DEERFIELD	IL	60015	(847) 945-8010	(847) 945-0296
ENCAP INCORPORATED	2585 WAGNER CT		DEKALB	IL		(815) 748-4500	(815) 748-4255
BURNS & MCDONNELL	1431 OPUS PL		DOWNERS GROVE	IL	60515	() -	() -
DEIGAN & ASSOCIATES LLC	28835 N HERKY DR UNIT 120		LAKE BLUFF	IL	60044	(847) 578-5000	() -
DAI ENVIRONMENTAL INC	27834 N IRMA LEE CIR		LAKE FOREST	IL	60045	(847) 573-8900	(847) 573-8953
SECOR INTERNATIONAL INC	446 EISENHOWER LN N		LOMBARD	IL	60148	(630) 792-1680	(630) 792-1691
ENVIRONMENTAL CONTRACTORS INC	5290 NIMTZ RD		LOVES PARK	IL	61111	(815) 654-4726	(815) 636-4304
FREE FLOW TECHNOLOGIES LTD	4920 FOREST HILLS RD		LOVES PARK	IL	61111	(815) 636-0166	(815) 636-0560
TRANS ENVIRONMENTAL	8184 STARWOOD DR		LOVES PARK	IL	61111	(815) 885-4840	(815) 885-4841
ENVIRONMENTAL MONITORING & TECHNOLOGIES INC	8100 N AUSTIN AVE		MORTON GROVE	IL	60053	(800) 246-0663	(847) 967-6735
TRUE NORTH CONSULTANTS INC	1240 IROQUOIS AVE	STE 206	NAPERVILLE	IL	60563	(630) 717-2880	(630) 689-5881
MOSTARDI PLATT ENVIRONMENTAL	1520 KENSINGTON RD	STE 204	OAK BROOK	IL	60523	(630) 993-2100	(630) 993-9017
FOTH INFRASTRUCTURE & ENVIRONMENT LLC	903 COMMERCE DR	SUITE 309	OAK BROOK	IL	60523	(630) 368-3060	(630) 368-3031
SITE ENVIRONMENTAL SVCS INC	15774 S LA GRANGE RD.	STE 990	ORLAND PARK	IL	60462	(815) 464-6560	(815) 464-6481
PDC TECHNICAL SERVICES INC	PO BOX 9071	4349 W SOUTHPORT RD	PEORIA	IL	61612	(309) 676-4893	(309) 672-2726
BRADLEY & BRADLEY ARCHITECTS ENGINEERS	924 N MAIN ST		ROCKFORD	IL	61103	(815) 968-9631	(815) 968-9639
WESTON SOLUTIONS INC	750 E BUNKER CT	STE 500	VERNON HILLS	IL	60061	(847) 918-4000	(847) 918-4055
FOTH INFRASTRUCTURE & ENVIRONMENT LLC	4211 GLASS RD NE	STE B	CEDAR RAPIDS	IA	54202	(319) 365-9565	(319) 365-9631
MI TECH SVCS INC	227 NORTHLAND CT NE		CEDAR RAPIDS	IA	52402	(715) 359-9400	() -
MSA PROFESSIONAL SVCS INC	1605 ASSOCIATES DR	STE 102	DUBUQUE	IA	52002	(563) 582-3973	(563) 582-4020
NATURAL RESOURCES CONSULTING INC	2300 SWAN LAKE BLVD	SUITE 200	INDEPENDENCE	IA	50644	(319) 334-3755	() -
FOTH INFRASTRUCTURE & ENVIRONMENT LLC	8191 BIRCHWOOD CT	STE L	JOHNSTON	IA	50131	(515) 254-1393	(515) 254-1624
AEI CONSULTANTS	1798 LEGRAND CIR		LAWRENCEVILLE	GA	30043	(800) 801-3224	() -
SOLUTECH INC	5841 CORPORATE WAY, SUITE 102		WEST PALM BEACH	FL	33470	(561) 436-9318	(561) 688-2904
SEALAND ENVIRO LLC	58 POMFRET ST		PUTNAM	CT	06260	(413) 540-1407	(860) 315-9019
SHORT ELLIOTT HENDRICKSON INC	12640 W CEDAR DR STE F		LAKEWOOD	CO	80228-2029	(303) 586-5800	(888) 908-8166

Environmental Services Contractors List - September 09, 2019

Self-identified consultants that perform environmental services in Wisconsin. The list is for public information only.

Company Name	Address 1	Address 2	City	Sta.	Zip	Phone #	Fax #
SHORT ELLIOTT HENDRICKSON INC	503 N MAIN ST	THATCHER BLDG STE 2	PUEBLO	CO	81003-3138	(719) 423-7400	(888) 908-8166