Stantec Consulting Services Inc.
1165 Scheuring Road
De Pere WI 54115-1001
Tel: (920) 592-8400
Fax: (920) 592-8444

April 17, 2018

Mr. David Neste
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313

Dear Mr. Neste,

Reference: Documentation of Remedial Actions and Capping for the MCABI-Tyco Redevelopment Site, 1310-1330 Main Street, Marinette, WI BRRTS #02-38-564236; VPLE# 06-38-576107; Stantec Project #193704595

Stantec Consulting Services Inc. (Stantec) prepared this report to summarize remedial activities completed at the Marinette County Association for Business and Industry (MCABI)-Tyco Redevelopment Site located at 1310-1330 Main Street, Marinette, Wisconsin (the Site or Property). As part of the redevelopment efforts, MCABI has built the Wisconsin Maritime Center of Excellence (WMCOE), a one story 23,775 square foot office building at the Site. This report provides documentation of remedial activities completed in conjunction with redevelopment, including excavation, deposition of contaminated soil, off-site landfill disposal of contaminated materials, and the installation of a cap to address potential direct contact concerns. This report also concludes with a recommendation that the Site be reviewed for case closure. A Site location map is illustrated in Figure 1.

BACKGROUND

During June 2015, Stantec completed a Phase I Environmental Site Assessment (ESA) to identify Recognized Environmental Conditions (RECs) associated with the Property. Six RECs were identified during the Phase I ESA. To determine if the RECs affected soil and/or groundwater quality at the Site, Stantec completed a Phase II ESA in August 2015. As part of the Phase II ESA, 12 soil borings were advanced with five of the borings being completed as temporary groundwater monitoring wells. Soil and groundwater samples were collected from the boreholes and temporary well locations. The Phase II ESA identified up to 16 feet of generally sandy fill across the Site containing discontinuous layers or intermixed solid waste (i.e. wood chips and metal, slag, paper, glass, and/or plastic debris).

During September 2015, Stantec submitted a site investigation (SI) workplan to the Wisconsin Department of Natural Resources (WDNR). Following input from the WDNR's Voluntary Pollution Liability Exemption (VPLE) committee, a revised SI workplan was subsequently approved by the WDNR.

On October 2015, Stantec implemented additional SI activities which included the completion of eight soil borings and six monitoring wells to further evaluate the extent of soil and groundwater impacts at the Site.

Based on the results of this work, polynuclear aromatic hydrocarbon (PAH), lead and/or arsenic impacted soil appears to be widespread at the Site. Volatile organic compound (VOC) (benzene or tetrachloroethene [PCE]) impacted soil was also identified near the north central and east central portions of the Property. A limited volume of PCB impacted soil is also present on the northwestern portion of the Site. Based on the findings of the additional soil sampling, it was determined that the extent of soil impacts was sufficiently defined.

PAHs and arsenic were present at concentrations exceeding the NR140 PAL and/or ES in groundwater. VOCs were not detected in groundwater in excess of the PAL or ES indicating that the low levels of PCE and benzene detected in soil are not impacting groundwater. In addition, PCBs were not detected in the groundwater. Additional rounds of groundwater sampling were completed from select monitoring wells through January 2018. The most recent sampling data indicates that PAH and arsenic concentrations initially detected in the monitoring wells have decreased with only arsenic concentrations remaining above the PAL in one monitoring well and above the ES in an offsite well installed in the Ludington Street right-of-way (ROW). Based on the data collected as part of other investigations completed in this part of the City of Marinette, arsenic impacts to groundwater are believed to be wide-spread and not originating from the Property. A report summarizing the SI results and subsequent groundwater monitoring was submitted to the WDNR on March 28, 2018.

During September 2016, Stantec prepared and submitted a Materials Management Plan (MMP) to the WDNR in compliance with NR 718 Wisconsin Administrative Code (Wis. Adm. Code) to manage, redeposit, and cap impacted soil as a part of proposed Property redevelopment which included construction of the one story, WMCOE building. The MMP was approved by the WDNR on September 26, 2016. The MMP outlined a strategy to dispose or redeposit excavated materials on-site during redevelopment. The MMP also outlined a procedure for final capping of the Site with impermeable surfaces, (i.e. asphalt, concrete) or an approved soil cap consisting of filter fabric underlying at least 12 inches of clean fill and 6 inches of topsoil. Excess material that was not geotechnically suitable for reuse on-site would be transported offsite to an approved landfill for disposal.

Multiple approvals were necessary prior to initiation and commencement of remedial action activities. A summary of the approvals obtained are provided below with approval documentation included in following attachments.

- 5/9/2016 – WDNR approval to fill onsite wetland (Attachment A)
- 7/25/2016 – Army Core of Engineers (ACOE) approval to fill onsite wetland (Attachment A)
- 9/1/2016 – WDNR approval of the Construction Stormwater Runoff permit (Attachment B)
- 9/6/2016 – Approval to begin transporting up to 7,100 tons of excavated waste to Waste Management's Menominee Michigan Landfill (Attachment C)

- 9/23/2016 – Grant of Exemption approved for the development of a property where solid waste has been disposed (Attachment D)
- 9/26/2016 – Approval of the MMP prior to remedial activities (Attachment D)
- 10/18/16 – WDNR approval to utilize sand fill from a secondary source at N1997 Sotka Road, Village of Peshtigo, WI. A copy of the WDNR approval along with the approved sampling plan and subsequent sampling results are included in Attachment E.
- 10/25/2016 – WDNR approval to begin utilizing fill from the southern end of the stockpile at N1890 Harbor Road in Peshtigo, WI. A copy of the approval along with the approved sampling plan and subsequent sampling results are included in Attachment E.
- 10/26/2016 – Approval to utilize the remaining fill stockpile located at N1890 Harbor Road, Peshtigo, WI. A copy of the approval along with the approved sampling plan and subsequent sampling results are included in Attachment E. This soil was ultimately not used on this project.
- 6/6/2017 – Approval to utilize topsoil located at W4273 Mudbrook Road, Town of Porterfield, WI. A copy of the approval along with the approved sampling plan and subsequent sampling results are included in Attachment E.

REMDIAL ACTION ACTIVITIES

Site Preparation and Monitoring Well Abandonment

Prior to the start of construction activities, five monitoring wells (MW1500, MW1600, MW1700, MW1900, and MW2000) were located and abandoned in accordance to ch. NR 141 Wis. Adm. Code. A sixth well, MW1800 was left in place and protected for future sample collection. Well abandonment forms were completed for each of the wells and are included in Attachment F.

In October 2016, the entire Site was cleared of vegetation including trees, logs, and stumps by Moyle Construction (Moyle) of Houghton, Michigan. During this time, silt fence was installed on the Property boundaries.

Excavation and Disposal of Impacted Soils

Beginning October 10, 2016, topsoil and vegetative cover was stripped and removed from the Property and disposed of off-site at Waste Management's Menominee, Michigan landfill. Geotechnically unsuitable soils encountered were also loaded onto trucks and disposed of at Waste Management's landfill. Disposal documentation is included in Attachment C. Once the topsoil and vegetation were removed, geotechnically suitable material was excavated from the south-western third of the

Property along Main Street and was redistributed onto northern portions of the site in accordance to the MMP.

Installation of the WMCOE building foundation began in October 2016. To minimize the volume of contaminated soil to be excavated during construction, the foundation was constructed using spread footings supported by geo-piers. During this time, soil was also excavated to install the stormwater retention pond and associated storm sewer utility trenches along the northern half of the Site. Soil removed during these efforts contained various solid wastes and was not suitable to be utilized as backfill around newly installed utilities and therefore was also transported off-site for landfill disposal. A map depicting the locations of the areas where excavation was completed and areas where excavated soil was redeposited on-site is included as Figure 2.

Dewatering

As needed during installation and construction of the underground utilities and the retention pond, the excavation were dewatered by pumping water through a settling basin or sediment filtration system and into the nearby sanitary sewer that was connected to the City of Marinette's Waste Water Treatment Plant.

Imported Fill and Topsoil

In order to achieve the final Site grades and properly cap the Site per the MMP, two sources of fill and one source of topsoil were identified for use on the Property. Given the Site is part of the VPLE program, all fill and capping material deposited on the Property from offsite sources was sampled in accordance with WDNR approved sampling plans and approved by the WDNR for use prior to importing onto the Site. Descriptions of the fill and topsoil sources are provided below. The WDNR approval dates to use the material on-site are provided above.

Moyle identified three potential fill sources to use during the redevelopment. The primary source of fill was obtained from soil stockpiles located at the City of Peshtigo's waste water treatment facility located at N1890 Harbor Road in the Village of Peshtigo. The fill source was sampled in two events with each sampling previously approved by the WDNR. Samples of the fill were submitted for analysis of PAHs, VOCs, RCRA metals, and PCBs. Upon the receipt of sampling results, the material was approved by the WDNR for use on the Property. Approximately 37,037 cubic yards of fill were utilized from the stockpile.

The second fill source was obtained from a private rural residence located at N1997 Sotka Road in the Village of Peshtigo, WI. The stockpile was also sampled according to a WDNR approved sampling plan on October 11, 2016. The material was also approved for use by the WDNR but was never used on the MCABI Property. This secondary fill source served as a back-up pending exhaustion of the waste water treatment facility stockpile.

Finally, a stockpile of topsoil was identified for final capping of the Property in May 2017. The topsoil originated from a private residence located at W4273 Mudbrook Road, Town of Porterfield, Wisconsin. The Topsoil was sampled per the WDNR approved sampling plan for VOCs, PAHs, and RCRA metals. Sampling results indicated the topsoil was clean and the WDNR approved the topsoil for use on the MCABI Property on June 6, 2017. Sampling plan and material use approvals provided by the WDNR have been provided in Attachment E.

The estimated volumes or tonnages of soil excavated, the source of the soil fill, and location redeposited on the Site or off-site are summarized below.

Source of Contaminated Soil Excavated On-site or Clean Fill Imported to Site	Estimated Volume or Tons of Soil	Final Placement or Disposal Location
Topsoil fill, vegetative material, and geotechnically unsuitable soil.	4,180 tons	Waste Management's Menominee Michigan landfill
Impacted soil excavated and redeposited on-site	~2200 Cubic Yards	Northern half of property
Imported fill from the N1890 Harbor Road fill stockpile	~37,037 Cubic Yards	Primarily northern 2/3 of the Property
Imported topsoil from W4273 Mudbrook Road	~220 Cubic Yards	Landscaped portions across the Property

Capping

As part of the remedial action plan, the WDNR approved the capping of the entire site to address potential direct contact from impacted soil. To provide a clear distinction between clean capping/fill materials and impacted soils at depth, filter fabric was placed across the Property over impacted soils prior to the deposition of clean material. Fill brought onsite from the N1890 Harbor Road stockpile was then deposited over the filter fabric. The fill served a two-fold purpose; to achieve the final subgrades and provide a clean cap across the entire Property. Due to the varying topography of the Property, the clean fill varies in thickness from the minimum required 12 inches near Main Street to over six feet along Ludington Street. A retaining wall was also constructed around the north half of the site to allow for filling of this half of the Property. Finally, six inches of topsoil were deposited over the clean fill in all landscaped areas during June 2017.

In areas that were not landscaped, impermeable caps were installed per the MMP and consist of the WMCOE building, parking lots, and retention pond. The retention pond cap includes the use of a 40-millimeter high density polyethylene pond liner underlying

a second 30-millimeter polyethylene pond liner. Final caps were ultimately completed by July 27, 2017. A site plan showing the final cap at the Site is included as Figure 3. Photos showing the progress a site redevelopment and capping are included in Attachment G.

CONCLUSION

Environmental actions associated with the presence of impacted soil/fill material at the Site are considered complete and are consistent with the 2016 RAP and MMP. Given that remedial action activities are complete and WDNR's concurrence that the SI is complete, Stantec will begin preparing a case for closure on behalf of MCABI. The completed closure packet (using Form 4400-202) and associated fees will be submitted to the WDNR as a separate submittal. We trust this information meets your needs. If you have any questions, or require any additional information, please call me at (920) 655-7211.

Regards,

STANTEC CONSULTING SERVICES INC.

Evan J. Weber
Environmental Scientist

Phone: (920) 592-8400
Evan.Weber@stantec.com

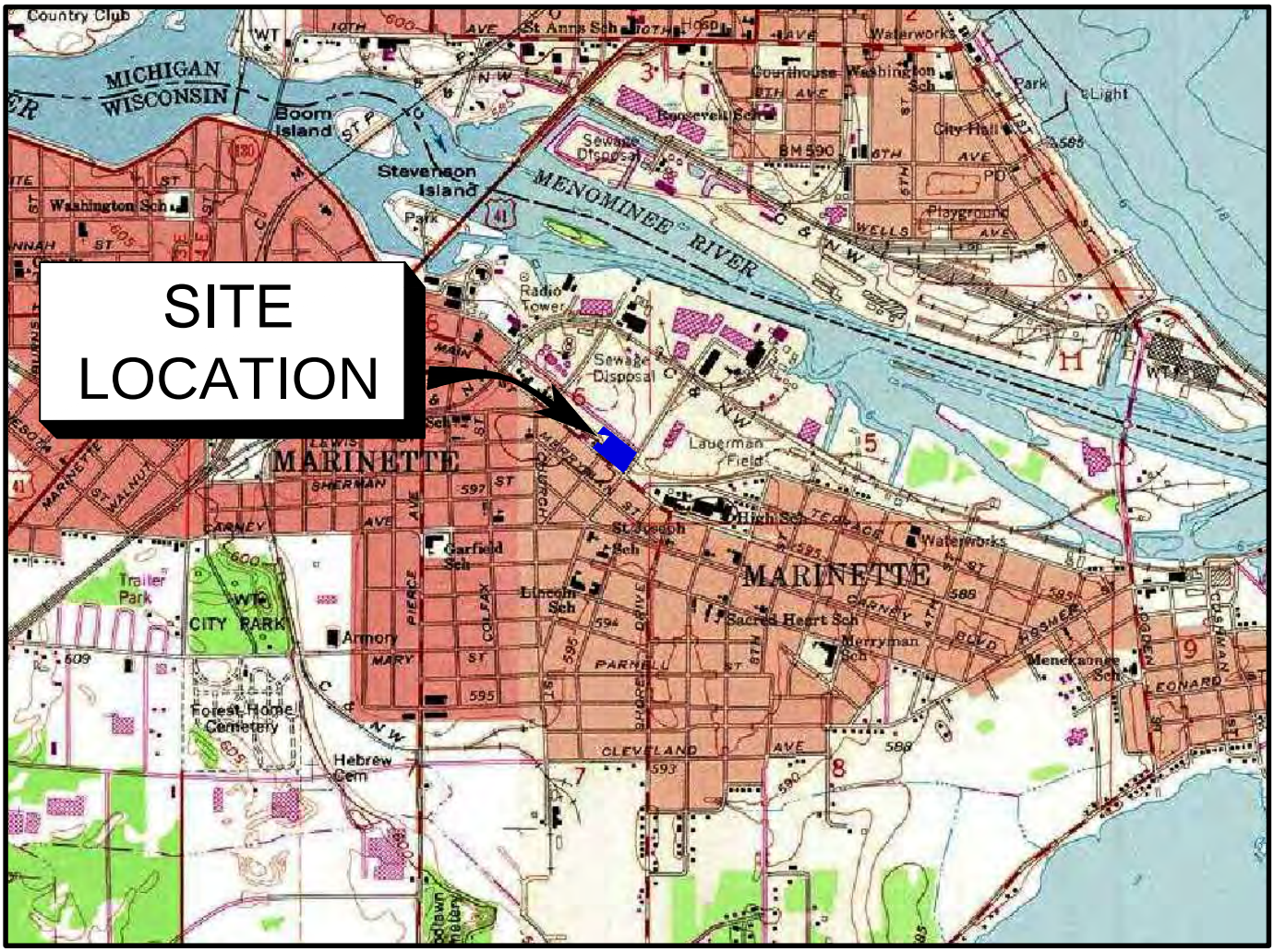
Lynelle P. Caine
Associate

Phone: (920) 655-7211
Lynelle.Caine@stantec.com

Attachments:

Figures
A: Wetland Fill Permit
B: Stormwater Permit
C: Landfill Profile Approval and Disposal Documentation
D: Historic Fill Exemption and Soil Management Plan Approval
E: WDNR Approvals to Sample and Import Clean Fill from Off-site Source
F: Well Abandonment Forms
G: Photographs Showing Remedial Action Activities

FIGURES



SCALE IN FEET

1" = 2000'

0 1000 2000 3000 4000 5000 6000 7000 8000

N

CONTOUR INTERVAL 10 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

BASE MAP SOURCE: USGS 7.5 MINUTE QUADRANGLE, MARINETTE EAST, WISCONSIN, 1976 (NATIONAL GEOGRAPHIC HOLDINGS, INC.)

Stantec

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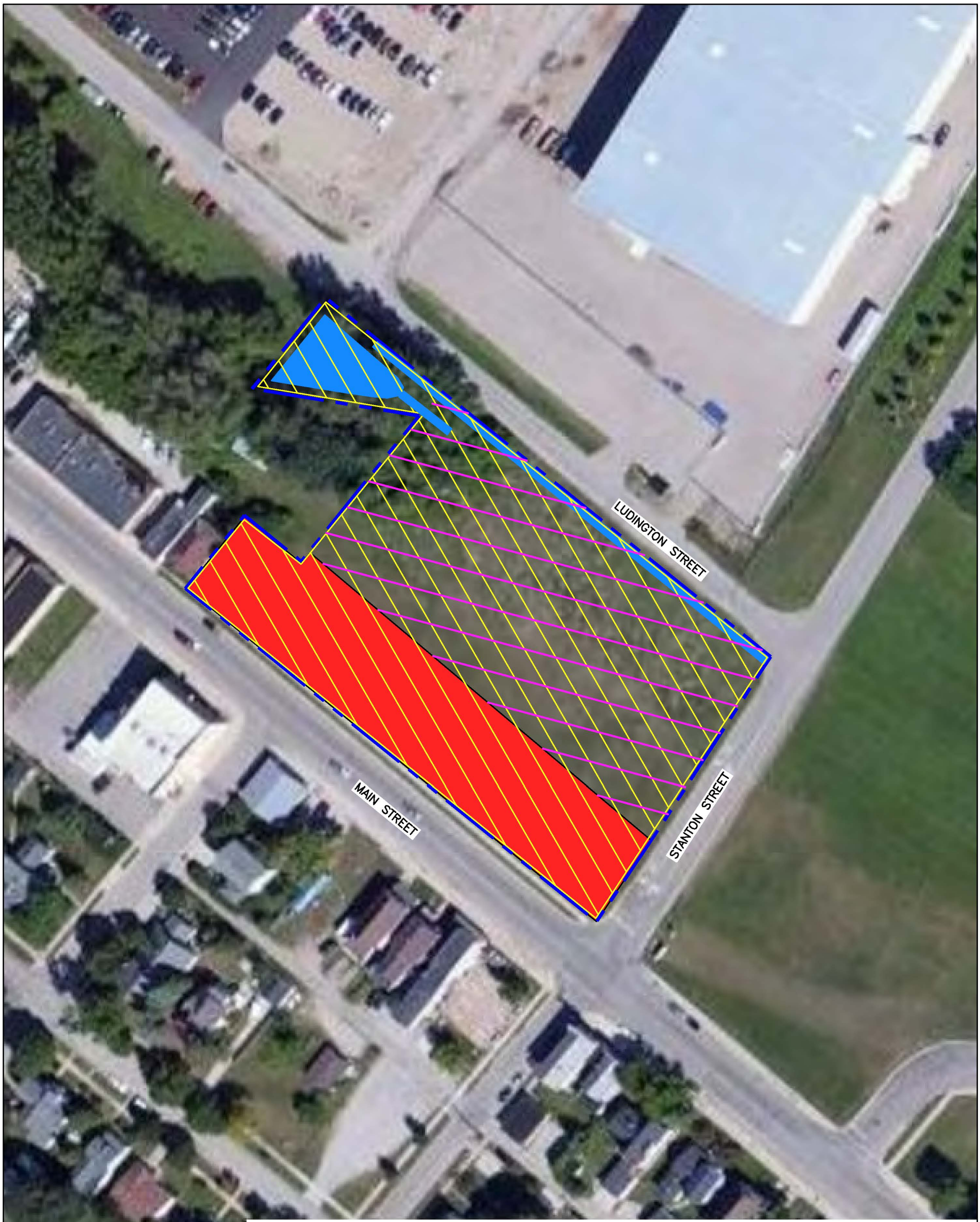
SITE LOCATION & LOCAL TOPOGRAPHY

TYCO PROPERTY
MAIN STREET
MARINETTE, WISCONSIN

DATE: 06/02/15	DRAWN BY: JRB	PROJECT MANAGER: LPC	PROJECT NUMBER: 193703365	FIGURE 1



LEGEND

APPROXIMATE PROPERTY LINE

TOPSOIL/VEGETATIVE COVER STRIPPED AND LANDFILLED

IMPACTED SOIL EXCAVATED AND REUSED ON–SITE

LOCATION OF IMPACTED SOIL REUSED ON–SITE

IMPACTED MATERIAL EXCAVATED FROM SITE AND LANDFILLED

N

SCALE IN FEET

40 0 40 80

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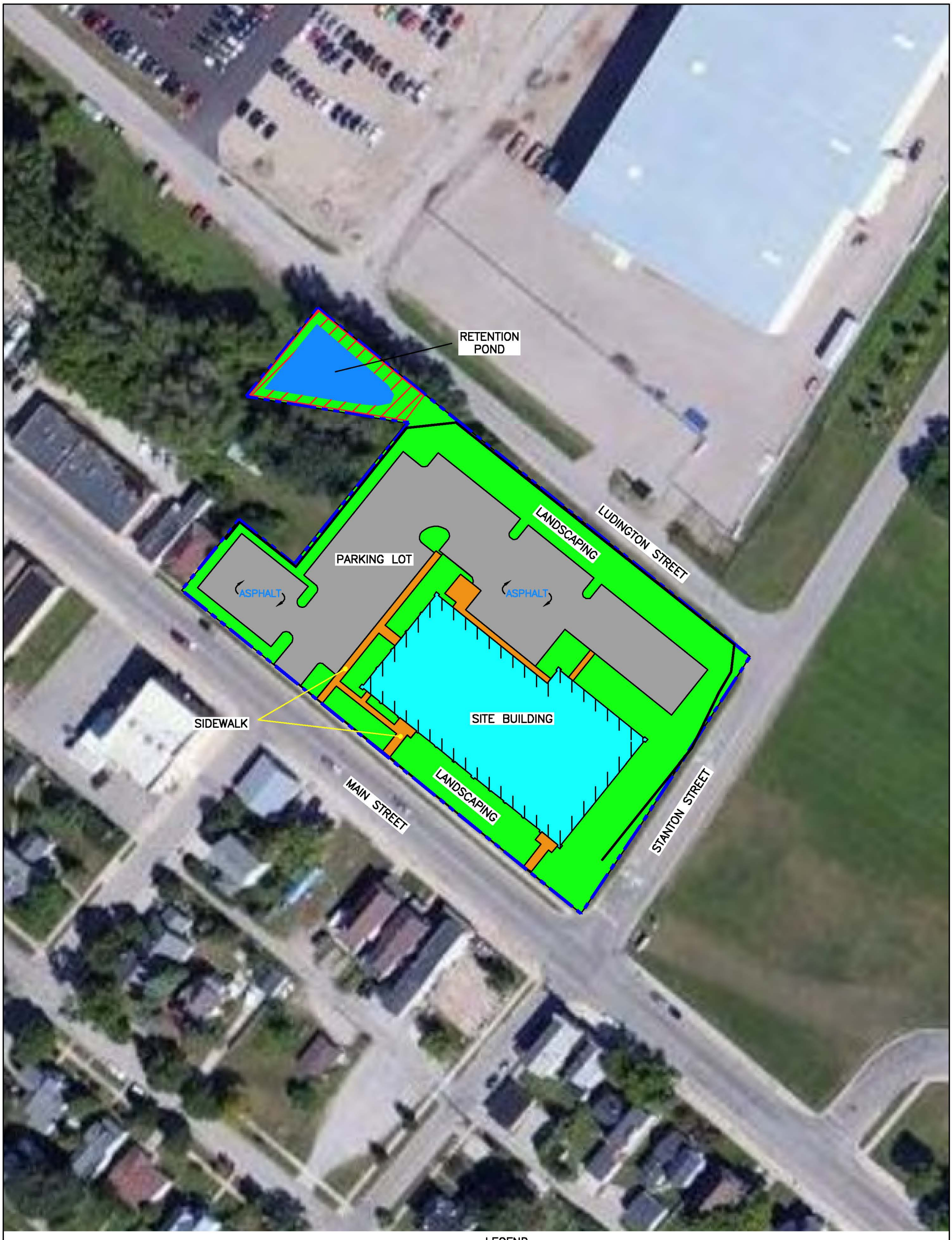
ON-SITE SOIL MANAGEMENT

MCABI - MARINETTE COUNTY ASSOCIATION FOR BUSINESS & INDUSTRY, INC.
MARITIME CENTER OF EXCELLENCE
MARINETTE, WISCONSIN

DATE: 04/04/18	DRAWN BY: JRB	TASK NUMBER: .	PROJECT NUMBER: 193704595	FIGURE 2



LEGEND

- APPROXIMATE PROPERTY LINE
- RETAINING WALL
- ASPHALT CAP
- SITE BUILDING CAP
- CONCRETE CAP
- TOPSOIL CAP OVER POLYETHYLENE POND LINER
- SAND AND TOPSOIL CAP OVER FILTER FABRIC
- RETENTION POND OVER POLYETHYLENE LINER

N

SCALE IN FEET

40 0 40 80

Stantec

1165 Scheuring Road, De Pere, Wisconsin, 54115
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FINAL CAP MAP

MCABI - MARINETTE COUNTY
ASSOCIATION FOR BUSINESS &
INDUSTRY, INC.
MARITIME CENTER OF EXCELLENCE
MARINETTE, WISCONSIN

DATE:	DRAWN BY:	TASK NUMBER:	PROJECT NUMBER:	FIGURE
04/04/18	JRB	3.0.1	193704595	3

ATTACHMENT A

Wetland Fill Permit

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Peshtigo Service Center
101 N Ogden Road
P.O. Box 208
Peshtigo, WI 54157

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

May 9, 2016

GP-NE-2016-38-01198

RECEIVED 5/12/16

Ann Hartnell
MCABI
1926 Hall Ave
Room 314
Marinette, WI 54143

RE: Coverage under the wetland statewide general permit for wetland fill or disturbance for residential, commercial, or industrial development, located in the City of Marinette, Marinette County, also described as being in the SE1/4 of the SE1/4 of Section 6, Township 30 North, Range 24 East.

Dear Ms. Hartnell:

Thank you for submitting an application for coverage under the wetland statewide general permit for wetland fill or disturbance for residential, commercial, or industrial development.

You have certified that your project meets the eligibility criteria and conditions for this activity. Based upon your signed certification you may proceed with your project to fill 0.18 acres of wetlands. Please take this time to re-read the permit eligibility standards and conditions. The eligibility standards can be found on your application checklist or in the statewide general permit WDNR-GP1-2012 (found at http://dnr.wi.gov/topic/waterways/construction/wetlands.html). The permit conditions are attached to this letter. You are responsible for meeting all general permit eligibility standards and permit conditions. This includes notifying the Department before starting the project, and submitting photographs within one week of project completion. Please note your coverage is valid for 5 years from the date of the department's determination or until the activity is completed, whichever occurs first. This permit coverage constitutes the state of Wisconsin's wetland water quality certification under USCS s. 1341 (Clean Water Act s. 401).

The Department conducts routine and annual compliance monitoring inspections. Our staff may follow up and inspect your project to verify compliance with state statutes and codes. If you need to modify your project please contact your local Water Management Specialist, Robert Rosenberger at (715) 582-5041 or email Robert.Rosenberger@wisconsin.gov to discuss your proposed modifications.

The General Permit eligibility standards do not allow the construction of a storm water pond in a wetland.

6. Wetland impact is not for any type of constructed storm water treatment facility including but not limited to a pond, infiltration basin, or swale.

The Department would typically require an Individual Permit for the construction of the stormwater

pond in a wetland. This specific site is unique because the site is a "brownfield" and the Department has determined that the site will likely be capped to control pollution. Due to the very site specific facts and circumstances, the Department has determined that the construction sequence for filling and then pond construction allows the issuance of a General Permit for this project.

The permit decision at this site should not be interpreted as a precedent in any other permitting process. Each permit is evaluated based on the facts and statutes, and the circumstances in this case lead the Department to conclude that the project meets the eligibility standard # 6.

The Department of Natural Resources appreciates your willingness to comply with wetland regulations, which help to protect the water quality, fish and wildlife habitat, natural scenic beauty and recreational value of Wisconsin's wetland resources for future generations. Please be sure to obtain any other local, state or federal permits that are required before starting your project.

For project details, maps, and plans related to this decision, please see application number WP-GP-NE-2016-38-X04-13T08-05-01 on the Department's permit tracking website at https://permits.dnr.wi.gov/water/SitePages/Permit%20Search.aspx.

If you have any questions, please call me at (715) 582-5041 or email Robert.Rosenberger@wisconsin.gov.

Sincerely,

Robert Rosenberger
Water Management Specialist

cc: Ryan Huber, U.S. Army Corps of Engineers
Conservation Warden

You agree to comply with the following conditions:

1. **Application**. You shall submit a complete application package to the Department as outlined in the application materials and section 2 of this permit. If requested, you shall furnish the Department, within a reasonable timeframe, any information the department needs to verify compliance with the terms and conditions of this permit.

2. **Certification**. Acceptance of general permit WDNR-GP1-2012 and efforts to begin work on the activities authorized by this general permit signifies that you have certified the project meets all eligibility standards outlined in Section 1 of this permit and that you have read, understood and have agreed to follow all terms and conditions of this general permit.

3. **Reliance on Applicant's Data.** The determination by this office that a confirmation of authorization is not contrary to wetland water quality standards will be based upon the information provided by the applicant and any other information required by the DNR.

4. **Project Plans**. This permit does not authorize any work other than what is specifically described in the notification package and plans submitted to the Department and you certified is in compliance with the terms and conditions of WDNR-GP1-2012

5. **Expiration**. This WDNR-GP1-2012 expires on October 9, 2017. The time limit for completing work authorized by the provisions of WDNR-GP1-2012 ends 5 years after the date on which the discharge is considered to be authorized under WDNR-GP1-2012 or until the discharge is completed, whichever occurs first.

6. **Other Permit Requirements**. You are responsible for obtaining any other permit or approval that may be required for your project by local zoning ordinances, other local authority, other state permits and by the U.S. Army Corps of Engineers before starting your project.

7. **Authorization Distribution**. You must supply a copy of the permit coverage authorization to every contractor working on the project.

8. **Project Start**. You shall notify the Department before starting construction.

9. **Permit Posting**. You must post a copy of this permit coverage letter at a conspicuous location on the project site prior to the execution of the permitted activity, and remaining at least five days after stabilization of the area of permitted activity. You must also have a copy of the permit coverage letter and approved plan available at the project site at all times until the project is complete.

10. **Permit Compliance**. The department may modify or revoke coverage of this permit if the project is not constructed in compliance with the terms and conditions of this permit, or if the Department determines the project will be detrimental to wetland water quality standards. Any act of noncompliance with this permit constitutes a permit violation and is grounds for enforcement action. Additionally, if any applicable conditions of this permit are found to be invalid or unenforceable, authorization for all activities to which that condition applies is denied.

11. **Construction Timing**. Once wetland work commences, all wetland construction activities must be continuous until the permitted activity is completed and the site is stabilized.

12. **Construction**. No other portion of the wetland may be disturbed beyond the area designated in the submitted plans.

13. **Project Completion**. Within one week of completion of the regulated activity, you shall submit to the Department a statement certifying the project is in compliance with all the terms and conditions of this permit, and photographs of the activities authorized by this permit. This statement must reference the Department-issued docket number, and be submitted to the Department staff member that authorized coverage.

14. **Proper Maintenance**. You must maintain the activity authorized by WDNR-GP1-2012 in good condition and in conformance with the terms and conditions of this permit utilizing best management practices. Any structure or fill authorized shall be properly maintained to ensure no additional impacts to the remaining wetlands.

15. **Site Access**. Upon reasonable notice, you shall allow access to the site to any Department employee who is investigating the project's construction, operation, maintenance or permit compliance with the terms and conditions of WDNR-GP1-2012 and applicable laws.

16. **Erosion and siltation controls**. The project site shall implement erosion and sediment control measures that adequately control or prevent erosion, and prevent damage to wetlands as outlined in NR 151.11(6m), Wis. Adm. Code.

17. **Equipment use**. The equipment used in the wetlands must be low ground weight equipment as specified by the manufacturer specifications.

18. **Invasive Species**. All project equipment shall be decontaminated for removal of invasive species prior to and after each use on the project site by utilizing other best management practices to avoid the spread of invasive species as outlined in NR 40, Wis. Adm. Code. For more information, refer to http://dnr.wi.gov/topic/Invasives/bmp.html.

19. **Federal and State Threatened and Endangered Species**. WDNR-GP1-2012 does not affect the DNR's responsibility to insure that all authorizations comply with Section 7 of the Federal Endangered Species Act, s. 29.604, Wis. Stats and applicable State Laws. No DNR authorization under this permit will be granted for projects found not to comply with these Acts/laws. No activity is authorized which is likely to jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act and/or State law or which is likely to destroy or adversely modify the critical habitat of a species as identified under the Federal Endangered Species Act.

20. **Special Concern Species**. If the Wisconsin National Heritage Inventory lists a known special concern species to be present in the project area you will take reasonable action to prevent significant adverse impacts or to enhance the habitat for the species of concern.

21. **Historic Properties and Cultural Resources**. WDNR-GP1-2012 does not affect the DNR's responsibility to insure that all authorizations comply with Section 106 of the National Historic Preservation Act and s. 44.40, Wis. Stats. No DNR authorization under this permit will be granted for projects found not to comply with these Acts/laws. Information on the location and existence of historic resources can be obtained from the State Historic Preservation Office and the National Register of Historic Places. If cultural, archaeological, or historical resources are unearthed during activities authorized by this permit, work must be stopped immediately and the State Historic Preservation Officer must be contacted for further instruction.

22. **Preventive Measures**. Measures must be adopted to prevent potential pollutants from entering a wetland or waterbody. Construction materials and debris, including fuels, oil, and other liquid substances, will not be stored in the construction area in a manner that would allow them to enter a wetland or waterbody as a result of spillage, natural runoff, or flooding. If a spill of any potential pollutant should occur, it is the responsibility of the permittee to remove such material, to minimize any contamination resulting from this spill, and to immediately notify the State Duty Officer at **1-800-943-0003**.

23. **Suitable fill material.** All fill authorized under this permit must consist of clean suitable soil material, as defined by s. NR 500.03(214), Wis. Admin. Code, free from hazardous substances as defined by s. 289.01(11), Wis. Stats., and free from solid waste as defined by s. 289.01(11) and (33), Wis. Stats.

24. **Standard for Coverage**. Wetland impacts from the project will cause only minimal adverse environmental impacts as determined by the Department.

25. **Transfers**. Coverage under this permit is transferable to any person upon prior written approval of the transfer by the Department.

26. **Limits of State Liability**. In authorizing work, the State Government does not assume any liability, including for the following:
    a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
    b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the State in the public interest.
    c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
    d. Design or construction deficiencies associated with the permitted work.
    e. Damage claims associated with any future modification, suspension, or revocation of this WDNR-GP1-2012.

27. **Reevaluation of Decision**. The Department may suspend, modify or revoke authorization of any previously authorized activity and may take enforcement action if any of the following occur:

    a. The applicant fails to comply with the terms and conditions of WDNR-GP1-2012.
    b. The information provided by the applicant in support of the permit application proves to have been false, incomplete, or inaccurate.
    c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

DEPARTMENT OF THE ARMY
ST. PAUL DISTRICT, CORPS OF ENGINEERS
180 FIFTH STREET EAST, SUITE 700
ST. PAUL MN 55101-1678

REPLY TO
ATTENTION OF

JUL 2 5 2016

Operations
Regulatory (MVP-2016-01211-RJH)

Ann Hartnell
Marinette County Association of Business & Industry
1926 Hall Avenue, Room C314
Marinette, Wisconsin 54143

Dear Ms. Hartnell:

We have completed our review of your pre-construction notification to discharge fill material in 0.19 acres of wetland for the purpose of commercial development. The project site is in the SE ¼ of the SE ¼ of Sec. 06, T. 30 N., R. 24 E., Marinette County, Wisconsin.

This work is authorized under the Clean Water Act by category 3.a.3 of Department of the Army General Permit (GP-004-WI) PROVIDED THE ENCLOSED CONDITIONS ARE FOLLOWED. Projects authorized under Section 404 of the Clean Water Act by GP-004-WI are not valid unless and until SECTION 401 WATER QUALITY CERTIFICATION or waiver is received from the Wisconsin Department of Natural Resources (WDNR).

You should contact Robert Rosenberger of the WDNR office in Peshtigo (715) 582-5041, concerning water quality certification and wetland permits required for your project. The WDNR has asked that we provide you with the enclosed materials. This information should be forwarded to the WDNR office.

The Wisconsin Coastal Management Program (WCMP) in the Department of Administration may conduct a federal consistency review to verify that the project will comply with state policies in Wisconsin's coastal zone. Further information may be obtained from the Federal Consistency Coordinator at: Wisconsin Coastal Management Program, P.O. Box 8944, Madison, WI 53708; (608) 267-7988.

If your project will require off-site fill material that is not obtained from a licensed commercial facility, you must notify us at least five working days before start of work. A cultural resources survey may be required if a licensed commercial facility is not used.

This General Permit is valid until December 31, 2017, unless reissued, or revoked. The time limit for completing the work described above ends on that date. It is the permittee's responsibility to remain informed of changes to the General Permit program. If this authorized work is not undertaken within the above time period, or the project specifications have changed, our office must be contacted to determine the need for further approval or re-verification.

It is your responsibility to ensure that the work complies with the terms of this letter and the enclosures AND TO OBTAIN ALL REQUIRED STATE AND LOCAL PERMITS AND APPROVALS BEFORE YOU PROCEED WITH YOUR PROJECT.

A preliminary jurisdictional determination (JD) has been prepared for the site of your project. The preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps representative identified in the final paragraph of this letter. You also may provide new information for further consideration by the Corps to reevaluate the JD. If this JD is acceptable, please sign and date both copies of the Preliminary Jurisdictional Determination form and return one copy to the address below within 15 days from the date of this letter.

U.S. Army Corps of Engineers
Ryan Huber
Green Bay Field Office
211 North Broadway Street Suite 221
Green Bay, Wisconsin 54303-2757

If you have any questions, contact Ryan Huber in our Green Bay office at (651) 290-5859. In any correspondence or inquiries, please refer to the Regulatory number shown above.

Sincerely,

Chad S. Konickson
Chief, Regulatory Branch

Enclosures
WDNR information sheets

Copy furnished to:
WDNR, Robert Rosenberger
(Reference WDNR No. 2016-38-01198)

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL		
Applicant: Ann Hartnell	File Number: MVP-2016-01211-RJH	Date: JUL 25 2016
Attached is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of Permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of Permission)	B
	PERMIT DENIAL	C
	APPROVED JURISDICTIONAL DETERMINATION	D
X	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/cecw/pages/reg_materials.aspx or Corps regulations at 33 CFR Part 331.

A. **INITIAL PROFFERED PERMIT**: You may accept or object to the permit.

• **ACCEPT**: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approve jurisdictional determinations associated with the permit.

• **OBJECT**: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B. **PROFFERED PERMIT**: You may accept or appeal the permit.

• **ACCEPT**: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

• **APPEAL**: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C. **PERMIT DENIAL**: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D. **APPROVED JURISDICTIONAL DETERMINATION**: You may accept or appeal the approved JD or provide new information

• **ACCEPT**: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.

• **APPEAL**: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E. **PRELIMINARY JURISDICTIONAL DETERMINATION**: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION

If you have questions regarding this decision and/or the appeal process you may contact:	If you only have questions regarding the appeal process you may also contact:
Mr. Ryan Huber U.S. Army Corps of Engineers Green Bay Field Office 211 North Broadway Street Suite 221 Green Bay, Wisconsin 54303-2757nickel 651-290-5859	Administrative Appeals Review Officer Mississippi Valley Division P.O. Box 80 (1400 Walnut Street) Vicksburg, MS 39181-0080 (601) 634-5821 (601) 634-5816 (fax)

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

	Date:	Telephone number:
Signature of appellant or agent.		

Operations - Regulatory
(MVP-2016-01211-RJH)

GP-004-WI GENERAL INFORMATION AND CONDITIONS

GENERAL CONDITIONS

1. Duration of Authorization. GP-004-WI expires on December 31, 2017 (unless suspended, revoked or modified). Unless otherwise specified in the Corps confirmation letter, the time limit for completing work authorized by GP-004-WI ends upon the expiration, suspension, or revocation date of this GP-004-WI (2012-01421-DJM). Activities authorized under the non-reporting categories of GP-004-WI where construction has commenced or are under contract to commence construction, will remain authorized provided the activity is completed within 12 months of the date of the GP-004-WI expiration, suspension, or revocation; whichever is sooner. If you find that you require additional time to complete activities authorized, submit your time extension request to this office for consideration at least three months before the expiration date is reached.

2. Special Conditions. The Corps may impose additional conditions on a project authorized pursuant to the reporting categories of GP-004-WI that are determined necessary to avoid or minimize adverse effects on navigation or the environment to ensure that the project is in the public interest. Such conditions will be specifically identified in any Corps confirmation letter. Failure to comply with all conditions and limitations of the authorization, including special conditions incorporated into the Corps' confirmation letter, constitutes a permit violation and may subject the permittee to criminal, civil or administrative penalties, and appropriate environmental remediation (which could include restoration of the site to its pre-violation condition).

3. Maintenance and Transfer. You must maintain the activity authorized by GP-004-WI in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party. Should you wish to cease to maintain an activity authorized by a reporting category of GP-004-WI, or abandon it without a good faith transfer; you must obtain a modification of the authorization from this office, which may require restoration of the area. If you wish to transfer responsibility for completion or maintenance of the project to another entity, please contact this office so we may document the transfer of the authorization. You are not relieved of your responsibilities under this permit until the transfer has been processed and acknowledged by the Corps of Engineers.

4. Historic Properties, Cultural Resources. Project proponents for reporting GP-004-WI categories shall notify the Corps if any historic properties listed, determined eligible, or which the project proponent has reason to believe may be eligible for listing on the NRHP, might be affected or is in the vicinity of the project. Information concerning the location and existence of cultural resources may be obtained by contacting the State Historic Preservation Officer (SHPO) at (608) 264-6505, the NRHP, and the appropriate tribal government.

(a) No activity which may affect historic properties listed, or eligible for listing, on the NRHP is authorized, until the Corps has complied with the provisions of 33 CFR 325, Appendix C.

(b) If cultural, archaeological, or historical resources are unearthed during activities authorized by this permit, work must be stopped immediately and the Corps, SHPO and/or Tribal Historic Preservation Office (THPO) must be contacted for further instruction. If you discover any previously unknown historic or archaeological remains while accomplishing any activity authorized by GP-004-WI, you must immediately stop work and notify this office of what you have found. The Corps will initiate the coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing on the NRHP.

5. Site Access. You must allow representatives from this office to inspect the proposed project site and the authorized activity at any time deemed necessary to ensure that it is being, or has been, constructed and maintained in accordance with the terms and conditions of GP-004-WI.

6. Navigation. The following conditions are part of all Corps of Engineers permits that provide authorization under Section 10 of the Rivers and Harbors Act:

(a) No activity may cause more than a minimal adverse effect on navigation and there shall be no unreasonable interference with navigation by use of the activity authorized herein.

(b) Any safety lights and signals prescribed by the United States Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

7. Discretionary Authority. The Corps retains discretionary authority to require a standard individual permit review of any activity eligible for authorization under GP-004-WI based on concern for navigation, the aquatic environment, or any public interest factor.

GP-004-WI GENERAL INFORMATION AND CONDITIONS

8. Federal Responsibility to Indian Tribes. Projects the Corps finds to have potential to affect tribal interests will be coordinated with the appropriate Indian Tribal governments and the Bureau of Indian Affairs as appropriate. The Tribe's views will be considered in the Corps evaluation of the project. Based on treaty rights, no activity or its operation may impair reserved treaty rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

9. Form and Confirmation of Authorization. Every reporting GP-004-WI authorization will be confirmed in writing by the Corps. Any confirmation issued may include special conditions which are part of this permit as it pertains to that project being authorized.

10. Avoidance and Minimization. Impacts to waters of the United States must be avoided and minimized to the maximum extent practicable (please see 1.a.9., above for a definition of practicable).

11. Water Quality Standards. All work or discharges to a watercourse resulting from GP-004-WI authorized construction activities, particularly hydraulic dredging, must meet applicable federal, state, and local water quality and effluent standards on a continuing basis. Water intakes or other activities that may be affected by suspended solids and turbidity increases caused by work in the watercourse must be identified and sufficient notice must be given to the owners of property where the activities would take place to allow them to prepare for any changes in water quality. Installation of intake structures that are not directly associated with an outfall structure or outfall structures that are not in compliance with regulations issued under the National Pollutant Discharge Elimination System program (Section 402 of the Clean Water Act) are not eligible for authorization under GP-004-WI.

12. Erosion and Siltation Controls. Appropriate erosion and siltation controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark shall be permanently stabilized at the earliest practicable date. Work should be done in accordance with state-approved published practices as described in NR 216 of Wisconsin Administrative Code.
Upon completion of earthwork operations, all exposed slopes, fills, and disturbed areas must be given sufficient protection by appropriate means such as landscaping, or planting and maintaining vegetative cover, to prevent subsequent erosion. Cofferdams shall be constructed and maintained so as to prevent erosion into the water. If earthen material is used for cofferdam construction, sheet piling, riprap or a synthetic cover shall be used to prevent dam erosion. All non-biodegradable erosion controls must be removed within two weeks of site stabilization unless otherwise noted in the Corps GP-004-WI reporting confirmation letter.

13. Removal of Temporary Fills. All temporary fills must be entirely removed and the affected areas returned to their preexisting elevation and hydrology. The timeframe for completing this removal shall be:
(a) Not later than the timeframe stipulated in the activity description (unless modified in writing by our office);
(b) Not later than the timeframe stipulated in our office's reporting GP-004-WI confirmation letter; or
(c) Not longer than two weeks from the date the temporary fill was placed in waters of the United States (condition (c) applies only if a timeframe is not otherwise established by applying (a) or (b) above).

14. Federal Threatened and Endangered Species. Prospective permittee's for reporting GP-004-WI categories shall notify the Corps if any federal threatened or endangered (protected) species or critical habitat might be affected or is in the vicinity of the project. Information about protected species may be obtained by contacting the United States Fish and Wildlife Service (FWS) at (920) 866-1717. The Corps website (http://www.mvp.usace.army.mil/regulatory/) also contains a link to the FWS list of protected species for each Wisconsin county.
(a) No activity is authorized by GP-004-WI which is likely to jeopardize the continued existence of a protected species or a species proposed for such designation, as identified under the Endangered Species Act (ESA) or which is likely to destroy or adversely modify the critical habitat of such species, unless those activities are determined to comply with the applicable procedures of Section 7 of the ESA.
(b) Authorization of an activity under GP-004-WI does not authorize the take of a protected species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with incidental take provisions, etc.) from the FWS, both lethal and non-lethal takes of protected species are in violation of the ESA.

15. Spawning Areas. Activities, including discharges in spawning areas during spawning seasons must be avoided to the maximum extent practicable.

16. Obstruction of High Flows. To the maximum extent practicable, activities authorized by GP-004-WI shall not permanently restrict or impede the passage of normal or expected high flows or cause the relocation of the water (unless the primary purpose of the fill is to impound waters).

GP-004-WI GENERAL INFORMATION AND CONDITIONS

17. Adverse Effects from Impoundments and Diversions of Water. If the activity authorized creates an impoundment of water, adverse effects on the aquatic system caused by the accelerated passage of water and/or the restriction of its flow shall be minimized to the maximum extent practicable. GP-004-WI may not be used to authorize all or any portion of a project that would divert more than 10,000 gallons/day of surface water or groundwater into or out of the Great Lakes Basin.

18. Fills Within 100-Year Floodplains. All Corps GP-004-WI authorizations shall comply with applicable FEMA approved state or local floodplain management requirements.

19. Waterfowl Breeding Areas. Impacts to breeding areas for migratory waterfowl must be avoided to the maximum extent practicable.

20. Aquatic Life Movements. No activity may substantially disrupt the movement of those species of aquatic life indigenous to the waterbody, including those species which normally migrate through the area, unless the activity's primary purpose is to impound water.

21. Equipment. Heavy equipment working in wetlands must be placed on mats, or other measures must be taken to minimize soil disturbance.

22. Preventive Measures. Measures must be adopted to prevent potential pollutants from entering waters of the United States. Construction materials and debris, including fuels, oil, and other liquid substances, will not be stored in a way that allows them to enter the watercourse as a result of spillage, natural runoff, or flooding.

23. Disposal Sites. If dredged or excavated material is placed on an upland disposal site (above the ordinary high-water mark), the site must be securely diked or contained by an acceptable method that prevents the return of potentially polluting materials to the watercourse by surface runoff or by leaching. Construction of containment areas, whether bulkhead or upland disposal site, must be complete prior to the placement of any dredged material.

24. Suitable Fill Material. All fill (including riprap), if authorized under this permit, must consist of suitable material (e.g. no trash, debris, car bodies, asphalt, etc.,) free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

25. Spill Contingency Plan. A contingency plan must be formulated that would be effective in the event of a spill. This requirement is particularly applicable in operations involving the handling of petroleum products. If a spill of any potential pollutant should occur, it is the responsibility of the permittee to remove such material, to minimize any contamination resulting from this spill, and to immediately notify the state Emergency Management Duty Officer at 1-800-943-0003 and the National Response Center at the United States Coast Guard at telephone number 1-800-424-8802.

26. Other Permit Requirements. A Corps GP-004-WI authorization does not eliminate the need for other local, state or federal authorizations, including but not limited to National Pollutant Discharge Elimination System (NPDES) or State Disposal System (SDS) permits.

27. State of Wisconsin Section 401 Water Quality Certification. The Wisconsin Department of Natural Resources has denied blanket for water quality certification for GP-004-WI. Therefore all projects authorized by GP-004-WI and involving a discharge of dredged or fill material under Section 404 require the permittee obtain a Section 401 Water Quality Certification or waiver from the WDNR prior to starting work.

28. Wisconsin Coastal Zone Management Program (WCMP) Conditions. The WCMP's Federal consistency determination for GP-004-WI provides that no reporting (category 3.a) GP-004-WI authorization for an activity taking place in coastal wetlands identified as ridge and swale complexes and/or wetlands adjacent to the Mink River (Door County), and the Kakagon and Bad Rivers (Ashland County) will be valid unless and until a Federal consistency determination is granted or waived by the WCMP. This requirement therefore is incorporated as a permit condition of reporting GP-004-WI. Applicants will be notified of this condition in the Corps' GP confirmation letter for projects in these areas.

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there *"may be"* waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

District Office: St. Paul District | File/ORM #: MVP-2016-01211-RJH | PJD Date: JUL 25 2016

State: WI | City/County: Marinette/ Marinette

Nearest Waterbody: Menominee River

Location: TRS, LatLong or UTM: SE ¼ of the SE ¼ of Sec. 06, T. 30 N., R. 24 E

Name/ Address of Person Requesting PJD: Ann Hartnell
Marinette County Association of Business & Industry
1926 Hall Avenue, Room C314
Marinette, Wisconsin 54143

Identify (Estimate) Amount of Waters in the Review Area:

Non-Wetland Waters: ____ linear ft ____ width ____ acres | Stream Flow: ____

Wetlands: 0.19 acre(s) | Cowardin Class: Palustrine, forested

Name of Any Water Bodies on the Site Identified as Section 10 Waters: Tidal: ____ Non-Tidal: ____

☐ Office (Desk) Determination
☐ Field Determination: Date of Field Trip: ____

SUPPORTING DATA: Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

- ☑ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Stantec
- ☑ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
  - ☑ Office concurs with data sheets/delineation report.
  - ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps
- ☐ Corps navigable waters' study:
- ☐ U.S. Geological Survey Hydrologic Atlas:
  - ☐ USGS NHD data.
  - ☐ USGS 8 and 12 digit HUC maps.
- ☐ U.S. Geological Survey map(s). Cite quad name:
- ☐ USDA Natural Resources Conservation Service Soil Survey. Citation:
- ☐ National wetlands inventory map(s). Cite name:
- ☐ State/Local wetland inventory map(s):
- ☐ FEMA/FIRM maps:
- ☐ 100-year Floodplain Elevation is:
- ☐ Photographs: ☐ Aerial (Name & Date):
  - ☐ Other (Name & Date):
- ☐ Previous determination(s). File no. and date of response letter:
- ☐ Other information (please specify):

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

7/25/16

Signature and Date of Regulatory Project Manager (REQUIRED)

Signature and Date of Person Requesting Preliminary JD (REQUIRED, unless obtaining the signature is impracticable)

EXPLANATION OF PRELIMINARY AND APPROVED JURISDICTIONAL DETERMINATIONS:

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

ATTACHMENT B

Stormwater Permit

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Northeast Region Headquarters
2984 Shawano Avenue
Green Bay, WI 54313-6727

Scott Walker, Governor
Cathy Stepp, Secretary
Jean Romback-Bartels, Regional Director
Telephone (920) 662-5100
FAX (920) 662-5159
TDD (920) 662-5413

September 1, 2016

Ann Hartnell
Marinette Co Association for Business & Industry
1926 Hall Avenue
Marinette, WI 54143

SUBJECT: Coverage Under WPDES General Permit No. WI-S067831-04: Construction Site Storm Water Runoff

Permittee Name: Marinette County Association for Business & Industry
Site Name: Maritime Center of Excellence
FIN: 57943

Dear Permittee:

The Wisconsin Department of Natural Resources received your Water Resources Application for Project Permits or Notice of Intent, on August 26, 2016, for the Maritime Center of Excellence site and has evaluated the information provided regarding storm water discharges from your construction site. We have determined that your construction site activities will be regulated under ch. 283, Wis. Stats., ch. NR 216, Wis. Adm. Code, and in accordance with Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit No. WI-S067831-04, Construction Site Storm Water Runoff. All erosion control and storm water management activities undertaken at the site must be done in accordance with the terms and conditions of the general permit.

The **Start Date** of permit coverage for this site is September 01, 2016. The maximum period of permit coverage for this site is limited to 3 years from the **Start Date**. Therefore, permit coverage automatically expires and terminates 3 years from the Start Date and storm water discharges are no longer authorized unless another Notice of Intent and application fee to retain coverage under this permit or a reissued version of this permit is submitted to the Department 14 working days prior to expiration.

A copy of the general permit along with extensive storm water information including technical standards, forms, guidance and other documents is accessible on the Department's storm water program Internet site. To obtain a copy of the general permit, please download it and the associated documents listed below from the following Department Internet site: **http://dnr.wi.gov/topic/stormwater/construction/forms.html**

- Construction Site Storm Water Runoff WPDES general permit No. WI-S067831-04
- Construction site inspection report form
- Notice of Termination form

If, for any reason, you are unable to access these documents over the Internet, please contact me and I will send them to you.

To ensure compliance with the general permit, please read it carefully and be sure you understand its contents. Please take special note of the following requirements (This is not a complete list of the terms and conditions of the general permit.):

1. The Construction Site Erosion Control Plan and Storm Water Management Plan that you completed prior to submitting your permit application must be implemented and maintained throughout construction. Failure to do so may result in enforcement action by the Department.

2. The general permit requires that erosion and sediment controls be routinely inspected at least every 7 days, and within 24 hours after a rainfall event of 0.5 inches or greater. Weekly written reports of all inspections must be maintained. The reports must contain the following information:

   a. Date, time, and exact place of inspection;
   b. Name(s) of individual(s) performing inspection;
   c. An assessment of the condition of erosion and sediment controls;
   d. A description of any erosion and sediment control implementation and maintenance performed;
   e. A description of the site's present phase of construction.

3. A **Certificate of Permit Coverage** must be posted in a conspicuous place on the construction site. The Certificate of Permit Coverage (WDNR Publication # WT-813) is enclosed for your use.

4. When construction activities have ceased and the site has undergone final stabilization, a Notice of Termination (NOT) of coverage under the general permit must be submitted to the Department.

It is important that you read and understand the terms and conditions of the general permit because they have the force of law and apply to you. Your project may lose its permit coverage if you do not comply with its terms and conditions. The Department may also withdraw your project from coverage under the general permit and require that you obtain an individual WPDES permit instead, based on the Department's own motion, upon the filing of a written petition by any person, or upon your request.

If you believe that you have a right to challenge this decision to grant permit coverage, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with s. NR 2.05(5), Wis. Adm. Code, and served on the Secretary in accordance with s. NR 2.03, Wis. Adm. Code. The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30-day period for filing a petition for judicial review.

Thank you for your cooperation with the Construction Site Storm Water Discharge Permit Program. If you have any questions concerning the contents of this letter or the general permit, please contact Sarah Anderson at (920) 662-5441.

Sincerely,

Sarah Anderson
Northeast Region
Storm Water Management Specialist

ENCLOSURE: Certificate of Permit Coverage

Cc: John Davel, Davel Engineering & Environmental, Inc. (email copy)

CERTIFICATE OF PERMIT COVERAGE

UNDER THE
WPDES CONSTRUCTION SITE STORM WATER RUNOFF PERMIT
Permit No. WI-S067831-04

Under s. NR 216.455(2), Wis. Adm. Code, landowners of construction sites with storm water discharges regulated by the Wisconsin Department of Natural Resources (WDNR) Storm Water Permit Program are required to post this certificate in a conspicuous place at the construction site. This certifies that the site has been granted WDNR storm water permit coverage. The landowner must implement and maintain erosion control practices to limit sediment-contaminated runoff to waters of the state in accordance with the permit.

EROSION CONTROL COMPLAINTS

should be reported to the WDNR Tip Line at

1-800-TIP-WDNR (1-800-847-9367)

Please provide the following information to the Tip Line:

WDNR Site No. (FIN): 57943

Site Name: Maritime Center of Excellence

Address/Location: Main Street and Stanton Street, City of MARINETTE

Additional Information:

Landowner: Marinette County Association for Business &

Landowner's Contact Person: Ann Hartnell

Contact Telephone Number: (715) 732-7421

Permit Start Date: September 01, 2016

By: Sara Anderson 09-01-16

ATTACHMENT C

Landfill Profile Approval and Disposal Documentation

Industrial Waste & Disposal Services Agreement

Exhibit A

Profile number: 125543MI TSR: Arica Coleman Sales person: 475

A. GENERATOR

1. Name: Marinette Cnty Assoc for Business & Industry
2. Address: 1926 Hall Avenue
   City: Marinette County: Marinette
   State: WI ZIP code: 54143

B. CUSTOMER BILLING INFORMATION

1. Name: Marinette Cnty Assoc for Business & Industry
2. Address: 1926 Hall Avenue
   City: Marinette
   State: WI ZIP code: 54143
3. Contact name: Ann Hartnell
4. Email: ahartnell@mcabi.com
5. Phone: (715) 732-7421 x0000 6. Fax:
7. P.O. number:

C. FACILITY

1. Name(s): Menominee Landfill

D. MATERIAL

1. Name: MCABI-Tyco Redevelopment Site
2. Anticipated volume: 7,200 Tons

E. CHARGES

❑ See Attached

DESCRIPTION	RATE	MINIMUM
Menominee Landfill		
Treatment Method Direct Landfill	$25.00 / Ton	3 ton
Waste Approvals Standard	$100.00	
Fuel Waived		
Environmental Waived		
Regulatory Fee State Fee	$0.36 / Ton	

Other services not listed above will incur additional charges that vary by location and are subject to change without notice. Payment of invoice represents agreement of such charges.

PLEASE REVIEW SECTION F WHICH CONTAINS IMPORTANT COMMENTS REGARDING YOUR WASTE STREAM.

Industrial Waste & Disposal Services Agreement

Exhibit A

F. COMMENTS ❑ See Attached

• Waste Management reserves the right to refuse any load or discontinue any waste stream should such waste pose a threat to human health or safety, prove to be operationally challenging, or is in violation of any WM permit.

• All loads must be accompanied by proper shipping paper.

• If Waste Management (WM) received authorization to make changes to your waste profile during the approval process, your acceptance and execution of this Exhibit A confirms the accuracy of the changes.

• If WM (or a WM contracted hauler) is not providing the transportation services, you must ensure that the transporter is licensed and approved to haul the Special Waste and/or Hazardous Waste. All Third Party Transporters must comply with WM Safety requirements and procedures (hard hat, safety glasses, steel-toe boots, and safety vest). If transporting to a CWM facility, a Tyvek suit and respirator are also required.

• Prices quoted herein are valid for 30 days. Unless Waste Management is hired for this project prior to the expiration of this 30 day period in which case pricing remains valid in accordance with the terms of the Service Agreement.

• Pricing is based on the information provided on your profile and the representative data previously submitted. Charges incurred for additional services not listed above will be subject to standard rates and payment of the invoice represents mutual agreement of those charges.

• The fuel surcharge percentage can fluctuate on a weekly basis; www.wm.com/fec.jsp provides the current Fuel Surcharge and DOE average. The actual percentage rate applied to the total project invoice will be determined on the date the load was received.

• Please see profile approval form for special handling instructions. Additional special terms and conditions may be defined on your original quotation.

The work contemplated by this Exhibit A is to be done in accordance with the terms and conditions of the Industrial Waste & Disposal Services Agreement or other contractual agreement between the parties dated: 09/07/2016

YOUR ACCEPTANCE OF THESE TERMS CREATES A BINDING AGREEMENT AS FOLLOWS: (I) TYPE OR SIGN YOUR NAME AND TITLE WHERE INDICATED BELOW OR (II) YOUR TENDER OR DELIVERY TO COMPANY OF THE INDUSTRIAL WASTE DESCRIBED IN THE COMPANY APPROVED PROFILE SHEET AND (IF APPLICABLE) CONFIRMATION LETTER SHALL CONSTITUTE YOUR ACCEPTANCE OF THESE TERMS WITHOUT YOUR SIGNATURE.

COMPANY

By: _____ Date: 09/07/2016

Name: Arica Coleman

Title: Technical Service Rep

CUSTOMER

Signature: Ann Hartnell Date: 09/07/2016

Name: Ann Hartnell

Title: project manager

Customer Summary Report
Criteria: 09/06/2016 12:00 AM to 04/13/2018 11:59 PM
Business Unit Name: Menominee RDF - S03098 (USA)
Profile: 125543MI

Ticket Date	Ticket ID	Customer	Truck	Material Description	Tons
7/18/2017	851534	MARINETTE CNTY ASSOC BUSINESS INDUSTRY	125	Special Waste Solid Other	18.12
7/18/2017	851542	MARINETTE CNTY ASSOC BUSINESS INDUSTRY	125	Special Waste Solid Other	15.38
7/18/2017	851550	MARINETTE CNTY ASSOC BUSINESS INDUSTRY	125	Special Waste Solid Other	16.71
7/18/2017	851557	MARINETTE CNTY ASSOC BUSINESS INDUSTRY	125	Special Waste Solid Other	18.21
7/18/2017	851563	MARINETTE CNTY ASSOC BUSINESS INDUSTRY	125	Special Waste Solid Other	19.59
Material Total	5				88.01
Customer Total	5				88.01
9/7/2016	842011	SMET CONSTRUCTION SERVICES	1	INITIAL APPROVAL	0
Material Total	1				0
10/11/2016	841857	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	7.5
10/11/2016	841858	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	2.29
10/11/2016	841859	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	13.5
10/11/2016	841861	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	15.31
10/12/2016	841862	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	18.5
10/12/2016	841863	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	13.65
10/12/2016	841864	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	15.82
10/12/2016	841865	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	17.14
10/12/2016	841866	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	18.37
10/12/2016	841867	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	21.47
10/12/2016	841868	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	15.99
10/12/2016	841869	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	19.36
10/12/2016	841870	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.64
10/12/2016	841871	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	20.93
10/12/2016	841872	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	22.06
10/12/2016	841874	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	16.89
10/12/2016	841875	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	21.68

10/12/2016	841876	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	20.24
10/12/2016	841877	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	19.75
10/12/2016	841878	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	21.37
10/12/2016	841879	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	16.87
10/12/2016	841880	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	21.4
10/12/2016	841881	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	19.19
10/12/2016	841882	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	18.4
10/12/2016	841883	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.29
10/12/2016	841884	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	19.23
10/12/2016	841885	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	17.22
10/12/2016	841886	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	19.37
10/12/2016	841887	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	18.87
10/12/2016	841888	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	20.71
10/12/2016	841889	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	18.95
10/12/2016	841890	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	16.46
10/12/2016	841891	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	21.49
10/12/2016	841892	SMET CONSTRUCTION SERVICES	28	Special Waste Solid Other	16.7
10/12/2016	841893	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.52
10/12/2016	841894	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	18.98
10/12/2016	841895	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	18.65
10/12/2016	841896	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	17.49
10/12/2016	841897	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	19.7
10/12/2016	841898	SMET CONSTRUCTION SERVICES	28	Special Waste Solid Other	17.11
10/12/2016	841899	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	18.74
10/12/2016	841900	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	18.52
10/12/2016	841901	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	19.89
10/12/2016	841902	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	16.25

10/12/2016	841903	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	22.36
10/12/2016	841904	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.31
10/12/2016	841905	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	19.62
10/12/2016	841906	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	17.14
10/13/2016	841907	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	17.27
10/13/2016	841908	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	20.46
10/13/2016	841909	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	19.59
10/13/2016	841910	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	21.29
10/13/2016	841911	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	17.82
10/13/2016	841912	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	20.04
10/13/2016	841913	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	20.56
10/13/2016	841914	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	22.66
10/13/2016	841915	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	18.77
10/13/2016	841916	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	16.57
10/13/2016	841917	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.9
10/13/2016	841918	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	19.55
10/13/2016	841919	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	21.98
10/13/2016	841920	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	19.56
10/13/2016	841921	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	16.94
10/13/2016	841922	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	20.61
10/13/2016	841923	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	20.56
10/13/2016	841924	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	20.02
10/13/2016	841925	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	16.92
10/13/2016	841926	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.36
10/13/2016	841927	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	20.16
10/13/2016	841928	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	18.85
10/13/2016	841929	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.39

10/13/2016	841930	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	16.89
10/13/2016	841931	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	20.51
10/13/2016	841932	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	21.1
10/13/2016	841933	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	21.53
10/13/2016	841934	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	18.36
10/13/2016	841935	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	20.67
10/13/2016	841936	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	18.7
10/13/2016	841937	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.78
10/13/2016	841938	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	21.42
10/13/2016	841939	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	18.91
10/13/2016	841940	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	18.08
10/13/2016	841941	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	15.24
10/13/2016	841942	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.47
10/13/2016	841943	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	22.85
10/13/2016	841944	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	19.29
10/13/2016	841945	SMET CONSTRUCTION SERVICES	50	Special Waste Solid Other	19.42
10/13/2016	841946	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	16.81
10/13/2016	841949	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	21.38
10/13/2016	841950	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	24.79
10/17/2016	841951	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	19.68
10/17/2016	841952	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	20.76
10/17/2016	841953	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	24.13
10/17/2016	841954	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	18.17
10/17/2016	841955	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	20.2
10/17/2016	841956	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	20.64
10/17/2016	841957	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	18.6
10/17/2016	841958	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	15.3

10/17/2016	841959	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	21.78
10/17/2016	841960	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	20.62
10/17/2016	841961	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	18.99
10/17/2016	841962	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	17.44
10/17/2016	841964	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	21.34
10/17/2016	841965	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	18.44
10/17/2016	841966	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	18.91
10/17/2016	841967	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	15.96
10/17/2016	841968	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	18.76
10/17/2016	841969	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	18.21
10/17/2016	841970	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	18.43
10/17/2016	841971	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	15.2
10/17/2016	841972	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	18.8
10/17/2016	841973	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	17.14
10/17/2016	841974	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	16.84
10/17/2016	841975	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	11.77
10/17/2016	841976	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	18.99
10/17/2016	841977	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	20.13
10/17/2016	841978	SMET CONSTRUCTION SERVICES	6	Special Waste Solid Other	15.92
10/18/2016	841979	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	17.01
10/18/2016	841980	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	18.6
10/18/2016	841981	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	17.88
10/18/2016	841982	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	19.3
10/18/2016	841983	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	19.08
10/18/2016	841984	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	18.08
10/18/2016	841985	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	20.56
10/18/2016	841986	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	19.18

10/18/2016	841987	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	20.1
10/31/2016	842182	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	25.27
10/31/2016	842188	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	20.23
10/31/2016	842192	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	24.06
10/31/2016	842197	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	21.99
10/31/2016	842199	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	22.98
10/31/2016	842205	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	21.2
10/31/2016	842209	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	8.44
11/4/2016	842386	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	18.55
11/4/2016	842391	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	21.76
11/4/2016	842399	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	23.01
11/4/2016	842404	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	22.65
11/4/2016	842409	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	21.68
11/4/2016	842416	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	19.34
11/7/2016	842444	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	20.4
11/7/2016	842447	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	18.53
11/7/2016	842448	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	18.26
11/7/2016	842449	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	21.45
11/7/2016	842450	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	22.41
11/7/2016	842453	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	22.43
11/7/2016	842454	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	22.43
11/8/2016	842466	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	18.04
11/8/2016	842467	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	19.05
11/8/2016	842469	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	21.68
11/8/2016	842470	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	24.74
11/8/2016	842471	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	21.8
11/8/2016	842472	SMET CONSTRUCTION SERVICES	301	Special Waste Solid Other	18.1

11/8/2016	842474	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	21.56
11/8/2016	842475	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	26.42
11/8/2016	842478	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	21.69
11/8/2016	842479	SMET CONSTRUCTION SERVICES	301	Special Waste Solid Other	17.8
11/8/2016	842482	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.6
11/8/2016	842483	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	25.32
11/8/2016	842485	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	19.42
11/8/2016	842487	SMET CONSTRUCTION SERVICES	301	Special Waste Solid Other	19.37
11/8/2016	842489	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	21.34
11/8/2016	842491	SMET CONSTRUCTION SERVICES	7	Special Waste Solid Other	24.49
11/8/2016	842493	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	21.85
11/8/2016	842494	SMET CONSTRUCTION SERVICES	301	Special Waste Solid Other	19.4
11/22/2016	842996	SMET CONSTRUCTION SERVICES	186	Special Waste Solid Other	1.24
12/21/2016	843928	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	18.52
12/21/2016	843931	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.99
12/21/2016	843932	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	19.08
12/21/2016	843940	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	19.83
12/21/2016	843942	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.56
12/21/2016	843946	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	21.77
12/21/2016	843950	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	15.9
12/21/2016	843952	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	17.45
12/21/2016	843954	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	17.01
12/21/2016	843956	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	15.91
12/21/2016	843959	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	17.49
12/21/2016	843960	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	22.77
12/22/2016	843979	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	23.17
12/22/2016	843982	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	24.82

12/22/2016	843984	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	25.58
12/22/2016	843989	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	22.81
12/22/2016	843991	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	27.12
12/22/2016	843992	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	20.49
12/22/2016	843994	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	23
12/22/2016	843995	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	26.87
12/22/2016	843998	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	19.65
12/22/2016	844002	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	23
12/22/2016	844003	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	21.54
12/22/2016	844005	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	17.78
12/22/2016	844009	SMET CONSTRUCTION SERVICES	341	Special Waste Solid Other	19.12
12/22/2016	844010	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	20.81
12/22/2016	844012	SMET CONSTRUCTION SERVICES	327	Special Waste Solid Other	19.15
4/28/2017	848189	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	22.04
4/28/2017	848192	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	18.21
4/28/2017	848200	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	22.83
4/28/2017	848205	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	24.5
4/28/2017	848210	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	28.02
4/28/2017	848216	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	22.78
6/14/2017	850231	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	10.3
6/14/2017	850244	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	21.77
6/14/2017	850248	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	19.56
6/14/2017	850255	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	22.99
6/14/2017	850264	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	23.73
6/15/2017	850310	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	24.29
6/15/2017	850315	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	14.79
6/15/2017	850318	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	18.17

6/15/2017	850327	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	18.14
6/15/2017	850329	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	21.39
6/15/2017	850335	SMET CONSTRUCTION SERVICES	125	Special Waste Solid Other	16.8
6/15/2017	850336	SMET CONSTRUCTION SERVICES	99	Special Waste Solid Other	18
Material Total	210				4092.34
Customer Total	211				4092.34
Ticket Totals	216				4180.35

ATTACHMENT D

Historic Fill Exemption and Soil Management Plan Approval

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2984 Shawano Avenue
Green Bay WI 54313-6727

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

WISCONSIN
DEPT. OF NATURAL RESOURCES

September 23, 2016

Ms. Ann Hartnell
Executive Director
Marinette County Association for Business &Industry
1926 Hall Avenue
Marinette, WI 54143

Subject: Conditional (Expedited) Grant of Exemption for the Development of a Property Where Solid Waste has been Disposed, MCABI – TYCO Redevelopment Site, 1310-1330 Main Street (Parcel Number 251-4268), Marinette, WI
BRRTS Number: 02-38-564236

Dear Ms. Hartnell:

The Wisconsin Department of Natural Resources (department) has received your request dated September 2, 2016 and received on September 8, 2016 for a grant of exemption from regulation under s. NR 506.085, Wis. Adm. Code. Based on the information provided to the department, the proposed development at the property is not expected to cause future exceedances of applicable soil and groundwater standards. Therefore, the department is issuing this general grant of exemption from the prohibitions contained in s. NR 506.085, Wis. Adm. Code. You must comply with the conditions of this grant of exemption in order to maintain the exemption. This grant of exemption is limited to the proposed changes described in your application. If you are considering additional changes beyond those described in the application, a new application must be submitted to the department for approval.

Please review the information contained in the publication *Development at Historic Fill Sites and Licensed Landfills: Considerations and Potential Problems* PUB-RR-685 to assist you in preventing environmental or safety problems during and after development. The department would like to particularly draw your attention to the public safety risk posed by the explosive potential for methane gas, which may be present on a property due to the presence of decomposing solid waste.

You are reminded that this approval does not relieve you of obligations to meet all other applicable federal, state and local permits, as well as zoning and regulatory requirements. If you have any questions concerning this letter, please contact Robert Klauk at (920) 662-5164 or by email to Robert.Klauk@wisconsin.gov.

Sincerely,

Roxanne N. Chronert, Team Supervisor
Northeast Region, Remedial and Redevelopment Program

cc: Robert Klauk – NER (electronic)
Lynelle Caine – Stantec Consulting Services Inc. (electronic)

BEFORE THE
STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

CONDITIONAL GRANT OF EXEMPTION
FOR
DEVELOPMENT ON A PROPERTY
WHERE SOLID WASTE HAS BEEN DISPOSED

FINDINGS OF FACT

The department finds that:

1. The Marinette County Association for Business and Industry owns the property located at 1310-1330 Main Street (Parcel Number 251-4268), City of Marinette, Marinette County, Wisconsin.

2. Solid waste has been disposed of at this property and remains at this property.

3. The Marinette County Association of Business and Industry has submitted a request, dated September 2, 2016, for an exemption from the prohibition in NR 506.085, Wis. Adm. Code. The request includes a statement signed by a professional engineer and/or professional geologist or hydrologist relating to the proposed development and the environmental conditions at the property.

4. Based upon the evaluation provided to the department, the proposed development at the property is not expected to cause future exceedances of applicable soil and groundwater standards.

5. Additional documents considered in review of the exemption request include the following:

   - "Phase II Environmental Site Assessment, MCABI-Tyco Redevelopment Site, Marinette, Wisconsin," August 13, 2015; Stantec Consulting Services Inc.

   - "Materials Management Plan, MCABI-Tyco Redevelopment Site, 1310-1330 Main Street, Marinette, Wisconsin," September 7, 2016; Stantec Consulting Services Inc.

6. Additional facts relevant to the review of the grant of exemption modification request include the following:

   - The primary contaminants of concern are polycyclic aromatic hydrocarbons, arsenic and lead exceeding direct contact and groundwater pathway residual contaminant levels (RCL).

7. If the conditions set forth below are complied with, the development of the property will not result in environmental pollution as defined in ss. 289.01(8) and 299.01(4), Wis. Stats.

CONCLUSIONS OF LAW

1. The department has the authority under s. NR 500.08(4), Wis. Adm. Code to issue an exemption from the prohibition in s. NR 506.085, Wis. Adm. Code, if the proposed development will not cause environmental pollution as defined in ss. 289.01(8) and 299.01(4), Wis. Stats.

2. The department has authority to approve a grant of exemption with conditions if the conditions are necessary to ensure compliance with the applicable provisions of chapters NR 500 to 538, Wis. Adm. Code, or to assure that environmental pollution will not occur.

3. The conditions set forth below are necessary to ensure compliance with the applicable provisions of chapters NR 500 to 538, Wis. Adm. Code, and to assure that environmental pollution will not occur.

4. In accordance with the foregoing, the department has the authority under s. NR 500.08(4), Wis. Adm. Code, to issue the following conditional grant of exemption.

CONDITIONAL GRANT OF EXEMPTION

The department hereby issues an exemption to the Marinette County Association for Business and Industry from the prohibition in s. NR 506.085, Wis. Adm. Code for development on a property which contains solid waste as proposed in the submittal dated September 2, 2016, subject to the following conditions:

1. No action related to the development of the property may be taken which will cause a significant adverse impact on wetlands as provided in ch. NR 103, Wis. Adm. Code.

2. No action related to the development of the property may be taken which will cause a significant adverse impact on critical habitat areas, as defined in s. NR 500.03(55), Wis. Adm. Code.

3. No action related to the development of the property may be taken which will cause a detrimental effect on any surface water, as defined in s. NR 500.03(62), Wis. Adm. Code.

4. No action related to the development of the property may be taken which will cause a detrimental effect on groundwater, as defined in s. NR 500.03(62), Wis. Adm. Code, or will cause or exacerbate an attainment or exceedance of any preventive action limit or enforcement standard at a point of standards application in ch. NR 140, Wis. Adm. Code.

5. No action related to the development of the property may be taken which will cause a migration and concentration of explosive gases in any structures in excess of 25% of the lower explosive limit for such gases at any time. No actions may be taken which will cause a migration and concentration of explosive gases in the soils outside of the limits of solid waste disposal within 200 feet of the property boundary or beyond the property boundary in excess of the lower explosive limit for such gases at any time. No actions may be taken which will cause a migration and concentration of explosive gases in the air outside of the limits of solid waste disposal within 200 feet of the landfill boundary or beyond the landfill property boundary in excess of the lower explosive limit for such gases at any time.

6. No action related to the development of the property may be taken which will cause an emission of any hazardous air contaminant exceeding the limitations for those substances contained in s. NR 445.03, Wis Adm. Code.

7. No action related to the development of the property may be taken which will cause an exceedance of a soil clean up standard established in accordance with ch. NR 720, Wis. Adm. Code.

8. This exemption shall transfer with changes in property ownership. In accordance with s.289.46(2), Stats., any person having or acquiring rights of ownership in land where a solid or hazardous waste disposal facility was previously operated may not undertake any activities on the land which interfere with the closed facility causing a significant threat to public health, safety or welfare. The department should be contacted to discuss any proposed changes to avoid activities that could violate the statute.

This exemption is based on the information available to the department as of the date of this document. If additional information, project changes or other circumstances indicate a possible need to modify this exemption, the department may ask you to provide further information relating to this activity. Likewise, the department accepts proposals to modify exemptions, as provided for in state statutes and administrative codes.

NOTICE OF APPEAL RIGHTS

If you believe you have a right to challenge this decision made by the department, you should know that Wisconsin statutes and administrative codes establish time periods and requirements for reviewing department decisions.

To seek judicial review of the department's decision, sections 227.52 and 227.53, Stats., establish criteria for filing a petition for judicial review. You have 30 days after the decision is mailed or otherwise served by the department to file your petition with the appropriate circuit court and serve the petition on the department. The petition shall name the department as the respondent.

Dated: 9/23/2016

DEPARTMENT OF NATURAL RESOURCES
For the Secretary

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

Robert Klauk, Hydrogeologist
Northeast Region, Remediation & Redevelopment Program

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2984 Shawano Avenue
Green Bay WI 54313-6727

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463

September 26, 2016

Ms. Ann Hartnell
Executive Director
Marinette County Association for Business & Industry
1926 Hall Avenue
Marinette, WI 54143

SUBJECT: **Management of Contaminated Soil per § NR718 Plan Approved**, MCABI-Tyco Redevelopment Site, 1310-1330 Main Street (Parcel Number 251-4268), Marinette, Wisconsin
BRRTS #02-38-564236

Dear Ms. Hartnell:

On September 12, 2016, the Department of Natural Resources (department) received a submittal entitled "Materials Management Plan" for the "MCABI-Tyco Redevelopment Site" prepared by Stantec Consulting Services Inc. (Stantec).

Background

As part of a Phase I Environmental Assessment (ESA) conducted in June 2015, Stantec identified environmental conditions. The environmental conditions identified are:

- A former coal yard occupying central portions of the property.
- A former service station with underground storage tanks in the southeastern portion of the property.
- Buried solid waste on adjacent properties and undocumented fill in a former log run on the property.
- Prior use of the southwestern portion of the property for an auto repair business, battery services and machine shop and tool works.
- A former print shop with associated underground storage tank up-gradient from the property.

In August 2015, Stantec conducted a Phase II ESA on the property. The Phase II ESA involved advancing ten soil probes and four hollow-stem auger borings, from which fourteen soil samples were collected for laboratory analysis of volatile organic compounds (VOC), Resource Conservation Recovery Act (RCRA) metals, polycyclic aromatic hydrocarbons (PAH) and polychlorinated biphenyls (PCB). The four hollow-stem auger borings were completed as groundwater monitoring wells.

On-site soils consist of several inches of sandy topsoil underlain by eight to sixteen feet of sandy fill overlying native silty sands. The sandy fill contained discontinuous layers or intermixing of solid waste (wood chips, metal, slag, paper, glass, rubber and plastic). Groundwater was encountered from 4 to 11 feet below ground surface (bgs). Groundwater flow is to the northeast.

Results of the Phase II ESA identified widespread polycyclic aromatic hydrocarbons (PAH), lead and/or arsenic impacted soil on the property that exceed Wis. Admin. § NR 720 non-industrial direct contact residual contaminant levels (RCLs). Furthermore, isolated tetrachloroethene (PCE) and benzene impacted soils were detected near the north central and east central portions of the property, respectively. Additionally, isolated PCB soil contamination was detected in the north western portion of the property.

Results of groundwater sampling, conducted in August 2015 (as part of the Phase II ESA) and in August 2016, identified arsenic at concentrations in excess of the Wis. Admin. § NR 140 preventative action limit (PAL). No other groundwater analyte was detected above the PAL.

Wis. Admin. § NR 718.12 (1) and (2)

Stantec requested, under Wis. Admin. § NR718.12 (1) and (2), permission to excavate and relocate 3,525 cubic yards of contaminated soil on the property and to cap remaining contaminated soil in-place. Generally, components for this approach consist of the following:

- Approximately 8,275 cubic yards of soil is to be excavated during construction with approximately 3,525 cubic yards to be reused on-site as construction fill.
- The soil is primarily to be excavated to a maximum depth of five feet bgs along the southern property boundary adjacent to Main Street and from a small triangular extension along the northwestern corner of the property.
- Excavated soil from the above-two locations will be used to raise the site grade in the north portion of the property.
- Excavated soil that cannot be reused on-site will be loaded directly onto trucks and transported to Waste Management's Menominee, Michigan landfill for disposal.

Enclosed Figure 2 presents the excavation/fill locations.

After soil relocation has been completed, the following engineering controls will be implemented:

- Capping the entire site with a building, pavement (parking lot and sidewalks), a storm water retention pond and landscaping.
- Landscaped areas will be completed as follows:
  - Placement of filter fabric over contaminated soil.
  - Placement of 12-inches of clean soil on top of the fabric.
  - Placement of 6-inches of clean topsoil on top of the clean clay.
  - Planting or seeding.
- The storm water retention pond will be completed as follows:
  - Placement of two feet of clean clay.
  - Placement of 40 mil high density polyethylene on top of the clean clay.
  - Placement of a 30 mil polyethylene pond liner on top of the polyethylene.

Enclosed Figure 3 presents the locations of the proposed building, parking lot, retention pond and landscaping.

The Department approves the soil management plan.

Grant of exemption to § NR718.12 (1) (c) 2 and 3

The materials management plan included a request to be exempted from a locational requirement listed in Wis. Admin. § NR718.12 (1) (c) 2. The requirement involves the relocating of 3,525 cubic yards of contaminated soil within 100 feet of a wetland.

The Department approves the exemption to § NR718.12 (1) (c) 2, thereby, allowing contaminated soil to be relocated within 100 feet of a wetland.

The exemption is based on the following:

- The department and the Army Corps of Engineers permitted the partial filling of an on-site wetland; although not delineated, the wetland is thought to extend off-site.
- On-site contaminated soils include the wetland.
- Relocating on-site contaminated soils to areas on-site with similar contamination will not further adversely impact the wetland thought to extend off-site.

If you have questions, you may contact me by phone at 920-662-5164 or email at Robert.Klauk@wisconsin.gov.

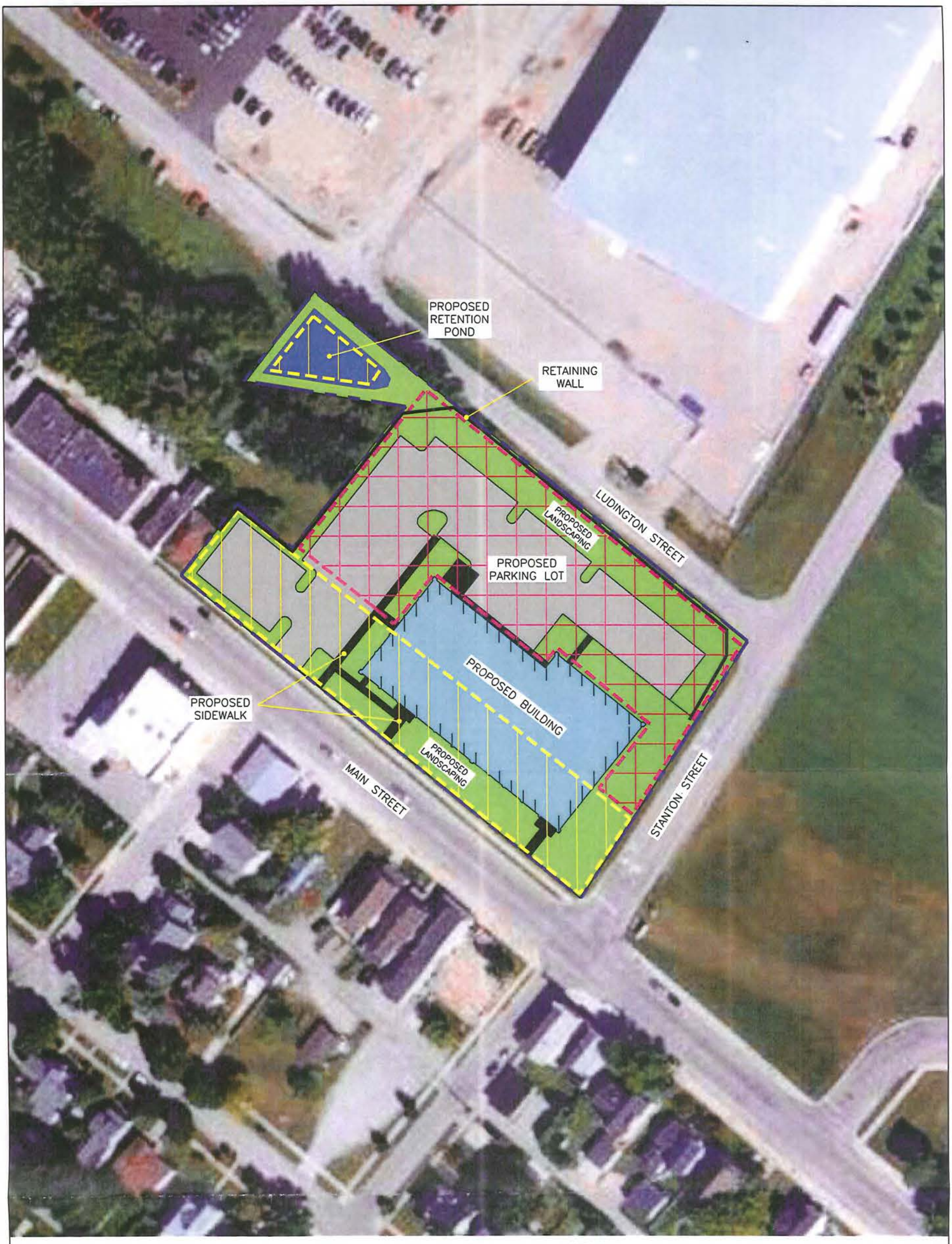
Sincerely,

Robert H. Klauk

Robert H. Klauk
Hydrogeologist
Remediation & Redevelopment Program

Enclosures: Figure 2 – Proposed Building with Estimated Excavation/Fill Locations
Figure 3 – Proposed Building and Cap Locations

cc: Lynelle Caine – Stantec (electronic)



LEGEND

APPROXIMATE PROPERTY LINE

APPROXIMATE SOIL TO BE EXCAVATED

APPROXIMATE LOCATION OF ON-SITE PLACEMENT OF EXCAVATED IMPACTED MATERIAL

N

SCALE IN FEET

40 0 40 80

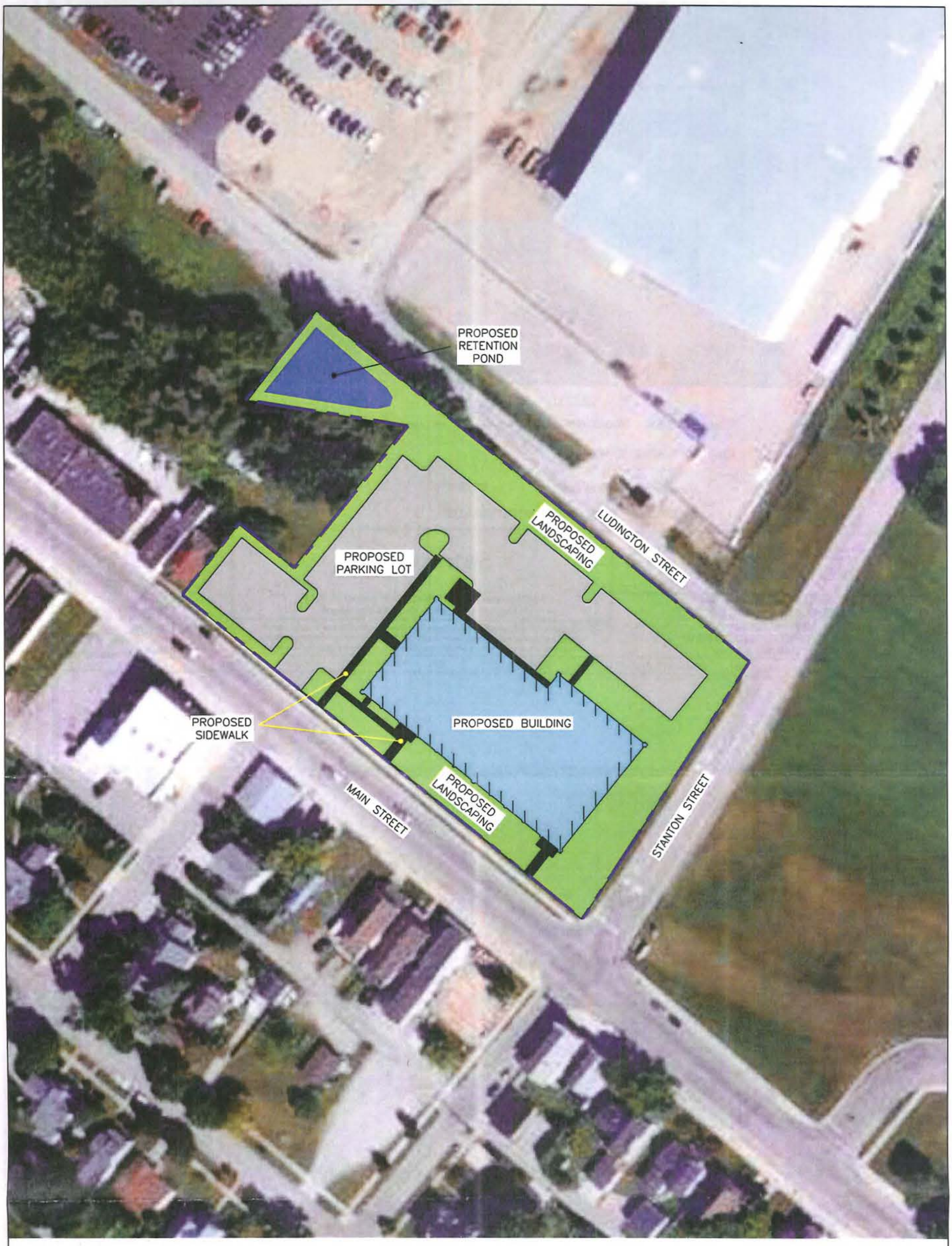
Stantec

1165 Scheuring Road, De Pere, Wisconsin, 54115
Phone: 920-592-8400 Fax: 920-592-8444

PROPOSED BUILDING WITH ESTIMATED EXCAVATION/FILL LOCATIONS

MCABI - MARINETTE COUNTY ASSOCIATION FOR BUSINESS & INDUSTRY, INC.
MARITIME CENTER OF EXCELLENCE
MARINETTE, WISCONSIN

DATE:	DRAWN BY:	TASK NUMBER:	PROJECT NUMBER:	FIGURE
09/06/16	JRB	3.0.1	1937033365	2



LEGEND

APPROXIMATE PROPERTY LINE

N

SCALE IN FEET

40 0 40 80

Stantec

1165 Scheuring Road, De Pere, Wisconsin, 54115
Phone: 920-592-8400 Fax: 920-592-8444

PROPOSED BUILDING AND CAP LOCATIONS

MCABI - MARINETTE COUNTY ASSOCIATION FOR BUSINESS & INDUSTRY, INC.
MARITIME CENTER OF EXCELLENCE
MARINETTE, WISCONSIN

DATE:	DRAWN BY:	TASK NUMBER:	PROJECT NUMBER:	FIGURE
07/26/16	JRB	3.0.1	1937033365	3

ATTACHMENT E

WDNR Approvals to Sample and Import Clean Fill from Off-site Source

Chapa, Lisa

From: Klauk, Robert H - DNR <Robert.Klauk@wisconsin.gov>
Sent: Wednesday, October 26, 2016 12:32 PM
To: Weber, Evan
Cc: Caine, Lynelle; Brand, Jeff
Subject: RE: Soil Sampling Plan for Fill Source for Tyco Redevelopment Site - (WMCOE)

Evan,

I have reviewed the analytical and approve of the remainder of the soil pile to be used as fill on the MCABI site.

Bob

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Robert Klauk
Phone: 920-662-5164
Robert.Klauk@wisconsin.gov

From: Weber, Evan [mailto:Evan.Weber@stantec.com]
Sent: Wednesday, October 26, 2016 10:07 AM
To: Klauk, Robert H - DNR
Cc: Caine, Lynelle; Brand, Jeff
Subject: RE: Soil Sampling Plan for Fill Source for Tyco Redevelopment Site - (WMCOE)

Bob – Attached please find the laboratory results of soil samples collected from stockpiled soil at the City of Peshtigo's wastewater treatment plant located at N1890 Harbor Road in the Town of Peshtigo, WI on October 19, 2016. The stockpiled soil is to be used as part of redevelopment efforts at the Tyco Redevelopment Site (aka Maritime Center of Excellence) at 1310-1330 Main Street, Marinette, WI (the Site). The fill material was sampled for VOCs, PAHs, RCRA metals, and PCBs according to the additional sampling requirements described by you on October 19th,2016. Results indicate no VOCs or PCBs were detected in any of the samples collected. Benzo (a) pyrene was detected in one sample exceeding the RCL for direct contact, however the result was "J" flagged by the laboratory as the result falls between the laboratory limit of detection and limit of quantitation. No other PAHs were found above RCLs in any of the samples. Multiple RCRA metals were detected within the samples collected from the stockpile however, none were detected above proposed RCLs in any of the samples. Current laboratory analytical results are summarized on the attached table and laboratory analytical reports are attached.

As indicated in our sampling plan, the estimated pile is currently 90ft wide by 375ft long and 40ft tall totaling approximately 17,000 cubic yards of stockpiled material. Soil samples were collected at 100 foot intervals, three across from the remainder of the pile previously un-sampled after the initial sampling event. In total 9 samples were collected. Based on the results of this most recent sampling, we believe this material is suitable for use as fill on the WMCOE property and would like WDNR approval for its use. The site contractor would like to begin hauling soil tomorrow. Please feel free to contact us with any questions you may have.

Thank you,

From: Caine, Lynelle
Sent: Tuesday, October 25, 2016 5:00 PM
To: Klauk, Robert H - DNR <Robert.Klauk@wisconsin.gov>
Cc: Weber, Evan <Evan.Weber@stantec.com>; Brand, Jeff <Jeff.Brand@stantec.com>
Subject: RE: Soil Sampling Plan for Fill Source for Tyco Redevelopment Site - (WMCOE)

Thanks Bob,

I also wanted to let you know we just got the remainder of the lab results back for the rest of the samples collected from this stockpile. I believe the soil should be acceptable for approval since the only thing detected with the exception of some low levels of RCRA metals were low levels of PAHs in one sample that were J flagged. I really don't anticipate that these will be a problem. The contractor indicated that they may begin hauling this material tomorrow. Evan Weber will be providing you with a more formal summary of the results tomorrow morning but wanted to share what we had in the meantime. Thanks,

Lynelle Caine
Senior Project Manager
Stantec
Phone: (715) 854-3360
Cell: (920) 655-7211
Fax: (715) 854-3361
Lynelle.Caine@stantec.com

From: Klauk, Robert H - DNR [mailto:Robert.Klauk@wisconsin.gov]
Sent: Tuesday, October 25, 2016 10:19 AM
To: Caine, Lynelle
Subject: RE: Soil Sampling Plan for Fill Source for Tyco Redevelopment Site - (WMCOE)

Lynelle,

I approve of the hauling of soil fill from the southeast end of the stockpile at the City of Peshtigo waste water treatment facility.

Bob

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Robert Klauk
Phone: 920-662-5164
Robert.Klauk@wisconsin.gov

From: Caine, Lynelle [mailto:Lynelle.Caine@stantec.com]
Sent: Friday, October 21, 2016 9:14 AM
To: Klauk, Robert H - DNR
Cc: Brand, Jeff
Subject: RE: Soil Sampling Plan for Fill Source for Tyco Redevelopment Site - (WMCOE)

Bob,

Per our conversation yesterday I believe you said we had the ok to start hauling the portion of the stockpile soil out of the City of Peshtigo's waste water treatment plant that was sampled and data presented to the WDNR. I know you are out of the office today and Monday but wanted to follow-up with an email so we had something in writing. We were going to start hauling material from this source starting Monday, October 24th. Please followup with an email confirmation when you are back in the office. Thanks,

Lynelle Caine
Senior Project Manager
Stantec
Phone: (715) 854-3360
Cell: (920) 655-7211
Fax: (715) 854-3361
Lynelle.Caine@stantec.com

From: Brand, Jeff
Sent: Thursday, October 20, 2016 8:50 AM
To: Klauk, Robert H - DNR
Cc: Caine, Lynelle
Subject: RE: Soil Sampling Plan for Fill Source for Tyco Redevelopment Site - (WMCOE)

Bob,

Attached please find the final results for PCBs as it pertains to soil samples collected from stockpiled soil at the City of Peshtigo's wastewater treatment plant located at N1890 Harbor Road in the Town of Peshtigo, WI. All samples analyzed for PCBs have come back with no detections. Laboratory analytical results are summarized on the attached table and laboratory analytical reports are attached. The plan is to start hauling material from the first 60 feet of pile on Monday pending determination. The remainder of the pile has been sampled per your recommendations noted below. Analytical results should be back by Tuesday next week. Please let me know if you would have any questions. Thanks.

Jeffrey R Brand
Engineer in Training
Stantec
1165 Scheuring Road De Pere WI 54115-1001
Phone: (920) 278-3208
Cell: (920) 883-8501
Fax: (920) 592-8444
Jeff.Brand@Stantec.com

From: Klauk, Robert H - DNR [mailto:Robert.Klauk@wisconsin.gov]
Sent: Wednesday, October 19, 2016 6:59 AM
To: Brand, Jeff <Jeff.Brand@stantec.com>
Subject: RE: Soil Sampling Plan for Fill Source for Tyco Redevelopment Site - (WMCOE)

Jeff,

I would like you to sample the remaining pile at 100 foot intervals, three across. I'm thinking that would total about 9 samples. Analyze for VOC, PAH and RCRA metals. Also three of them for PCBs.

Bob

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Robert Klauk
Phone: 920-662-5164
Robert.Klauk@wisconsin.gov

From: Brand, Jeff [mailto:Jeff.Brand@stantec.com]
Sent: Tuesday, October 18, 2016 4:53 PM
To: Klauk, Robert H - DNR
Cc: Caine, Lynelle
Subject: FW: Soil Sampling Plan for Fill Source for Tyco Redevelopment Site - (WMCOE)

Bob,

Attached please find the results for three of the four samples for PCBs as it pertains to soil samples collected from stockpiled soil at the City of Peshtigo's wastewater treatment plant located at N1890 Harbor Road in the Town of Peshtigo, WI. Unfortunately, the laboratory had a mix-up with the samples and will not have analytical back for the fourth sample until late tomorrow. Currently, all samples analyzed for PCBs have come back with no detections. As noted earlier, in order to keep the project on schedule, we are looking for clarification on any additional soil sampling, if any, that may be needed moving forward. Don't know if a determination can be made from the results we have received thus far? The hope is to start hauling fill material from this site by Thursday this week. Thanks.

Jeffrey R Brand
Engineer in Training
Stantec
1165 Scheuring Road De Pere WI 54115-1001
Phone: (920) 278-3208
Cell: (920) 883-8501
Fax: (920) 592-8444
Jeff.Brand@Stantec.com

From: Brand, Jeff
Sent: Monday, October 17, 2016 4:30 PM
To: 'Klauk, Robert H - DNR' <Robert.Klauk@wisconsin.gov>
Cc: Caine, Lynelle <Lynelle.Caine@stantec.com>
Subject: FW: Soil Sampling Plan for Fill Source for Tyco Redevelopment Site - (WMCOE)

Bob – Attached please find the preliminary results of soil samples collected from stockpiled soil at the City of Peshtigo's wastewater treatment plant located at N1890 Harbor Road in the Town of Peshtigo, WI. The stockpiled soil is to be used

as part of redevelopment efforts at the Tyco Redevelopment Site (aka Maritime Center of Excellence) at 1310-1330 Main Street, Marinette, WI (the Site). The fill material was sampled for VOCs, PAHs, RCRA metals, and PCBs according to the sampling plan approved on October 14, 2016. No VOCs or PAHs were detected in any of the samples collected. Selenium was detected in two samples collected above the RCL for protection of groundwater. Both samples were "J" flagged as the analyte was detected between the laboratory limit of detection and limit of quantification. No other RCRA metals were detected above proposed RCLs in any of the samples. PCB results are currently pending and should be available on Tuesday, October 18th. Current laboratory analytical results are summarized on the attached table and laboratory analytical reports are attached.

As indicated in our sampling plan, the estimated pile is currently 90ft wide by 375ft long and 40ft tall totaling approximately 17,000 cubic yards of stockpiled material. Soil samples were collected from the southernmost 60 feet of stockpiled soil which would be utilized by the WMCOE project first following approval by the WDNR. In order to keep the project on schedule, we are looking for clarification on any additional soil sampling, if any, that may be needed moving forward should the PCB analysis come back "clean". Please feel free to contact us with any questions. Thanks,

Jeffrey R Brand
Engineer in Training
Stantec
1165 Scheuring Road De Pere WI 54115-1001
Phone: (920) 278-3208
Cell: (920) 883-8501
Fax: (920) 592-8444
Jeff.Brand@Stantec.com

From: Klauk, Robert H - DNR [mailto:Robert.Klauk@wisconsin.gov]
Sent: Friday, October 14, 2016 7:58 AM
To: Weber, Evan <Evan.Weber@stantec.com>
Subject: RE: Soil Sampling Plan for Fill Source for Tyco Redevelopment Site - (WMCOE)

Evan,

I am requesting PCB sampling also be included. I am approving the initial sampling plan with the addition of the PCB analysis. After the results are back, we can revisit the sampling protocol.

Bob

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Robert Klauk
Phone: 920-662-5164
Robert.Klauk@wisconsin.gov

From: Weber, Evan [mailto:Evan.Weber@stantec.com]
Sent: Thursday, October 13, 2016 11:25 AM
To: Klauk, Robert H - DNR
Cc: Caine, Lynelle
Subject: Soil Sampling Plan for Fill Source for Tyco Redevelopment Site - (WMCOE)

Hi Bob,

Per your conversation with Jeff Brand of Stantec, we are submitting a sampling plan on behalf of MCABI to sample imported fill (primarily sand) to be used as part of the redevelopment efforts at the Tyco Redevelopment Site (aka Maritime Center of Excellence) at 1310-1330 Main Street, Marinette, WI. A sampling plan for a separate source of fill material was submitted previously. As stated in our earlier email, ~ 33,000 cubic yards of fill is needed in total for the Site. This sampling plan is for a second source of fill material currently located at N1890 Harbor Road in the Town of Peshtigo, WI owned by the City of Peshtigo. Ownership information associated with the source of the material and its stockpiled locations is attached.

Stantec personnel visited the site of stockpiled fill on October 7, 2016. According to estimates provided to Stantec, the pile is currently 90ft wide by 375ft long and 40ft tall totaling approximately 17,000 cubic yards of stockpiled material. The stockpile is located in the Town of Peshtigo at the City of Peshtigo's waste water treatment plant in a rural area surrounded by farm and forested lands. WDNR records indicate that the nearest BRRTS case to the stockpile location is approximately 0.86 miles away and is not expected to have affected the stockpile location. According to City personnel, the stockpiled sand and gravel was transferred to this property prior to 2005 as part of the excavation of a retention pond dug by the City of Peshtigo on the west bank of the Peshtigo River at parcel number 271-01831.008, in the City of Peshtigo. The Marinette County GIS shows the retention pond sits on a property located south and adjacent to the Former Badger Paper Mill. According to Marinette County, the property was deeded to the City in November 2004 by the Badger Paper Mill. Badger Paper Mill previously owned the Property as far back as 1990 and almost certainly longer. Available Sanborn Fire insurance maps from the Wisconsin Natural History Survey show the retention pond site was previously used to stock lumber as far back as the 1800s. A review of the WDNR BRRTS online records indicates the Badger Paper Mill property has multiple open and closed BRRTs cases associated with it. However, online BRRTs documents appear to show these releases have occurred further to the north or on the opposite side of the river and do not appear to have impacted the property where the material was excavated and the retention pond in currently located. It is our understanding that approximately 17,000 cubic yards of material would be imported onto the Site from the stockpiled location pending WDNR approval. Maps showing the retention pond (original source of the stockpiled material), the stockpiled soil location, as well as maps depicting the proximity of these properties to the nearest BRRTs sites are attached. Maps are comprised of Aerial Photos obtained from the Marinette County GIS or the WDNR BRRTs on the Web Sites Map.

Sampling Plan:

Soil is expected to be taken from the southeastern end of the current stockpile. Therefore, Stantec is proposing to collect up to 10 samples from the southern 60 feet of the stockpiled soil which would be utilized by the WMCOE project first following approval by the WDNR. Samples will be collected every 20 feet along each side of the stockpile with two samples collected from the southeastern end. An additional 2 samples will be collected from the top of the stockpile at 20 and 40 feet. Each sample will be submitted for PAHs, RCRA metals, and VOC analysis. Results of the stockpile sampling will be summarized in a brief letter report or email and submitted to the WDNR. Given the large volume of the stockpile it has been determined sampling per NR 718.09 (8)(b) would be a financial burden on the WMCOE project. Therefore, pending "clean" analytical results we will request a reduction in the number of samples to be submitted for laboratory analysis as indicated in the WDNR guidance on soil characterization per NR 718.09 (8)(b) at that time.

Based on the results of previous sampling we believe this sampling plan should adequately evaluate the imported fill to be used on the WMCOE property. Please let us know if you agree with the sampling plan or have any questions or concerns. Thanks,

Evan Weber
Environmental Scientist
Stantec
1165 Scheuring Road De Pere WI 54115-1001
Phone: (920) 592-8400
Evan.Weber@stantec.com

Location of Stockpile

N1890 Harbor Road, Peshtigo WI

Legend

Retention Pond Fill Stockpile

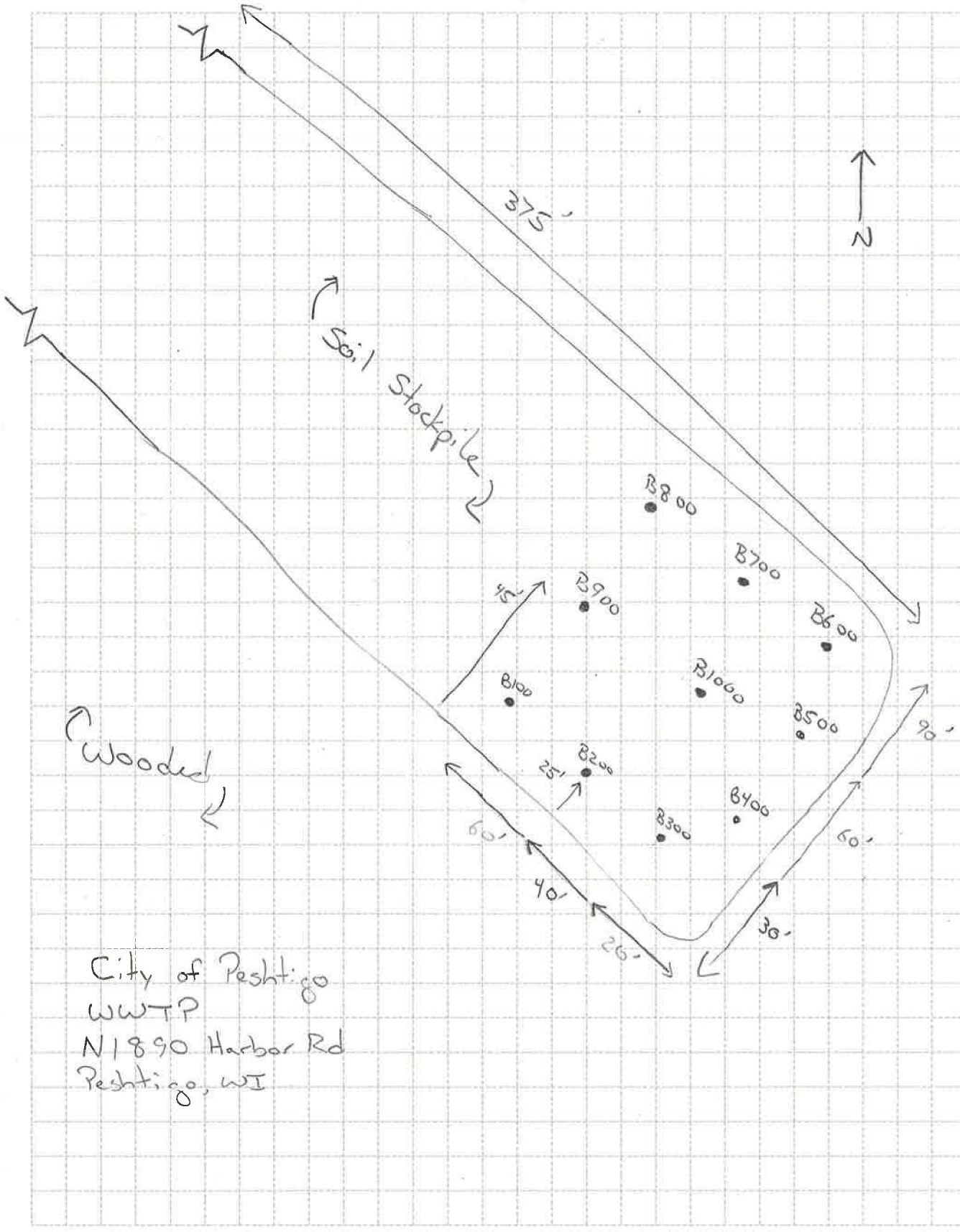
Harbor Rd

N

500 ft

Google earth

Stantec

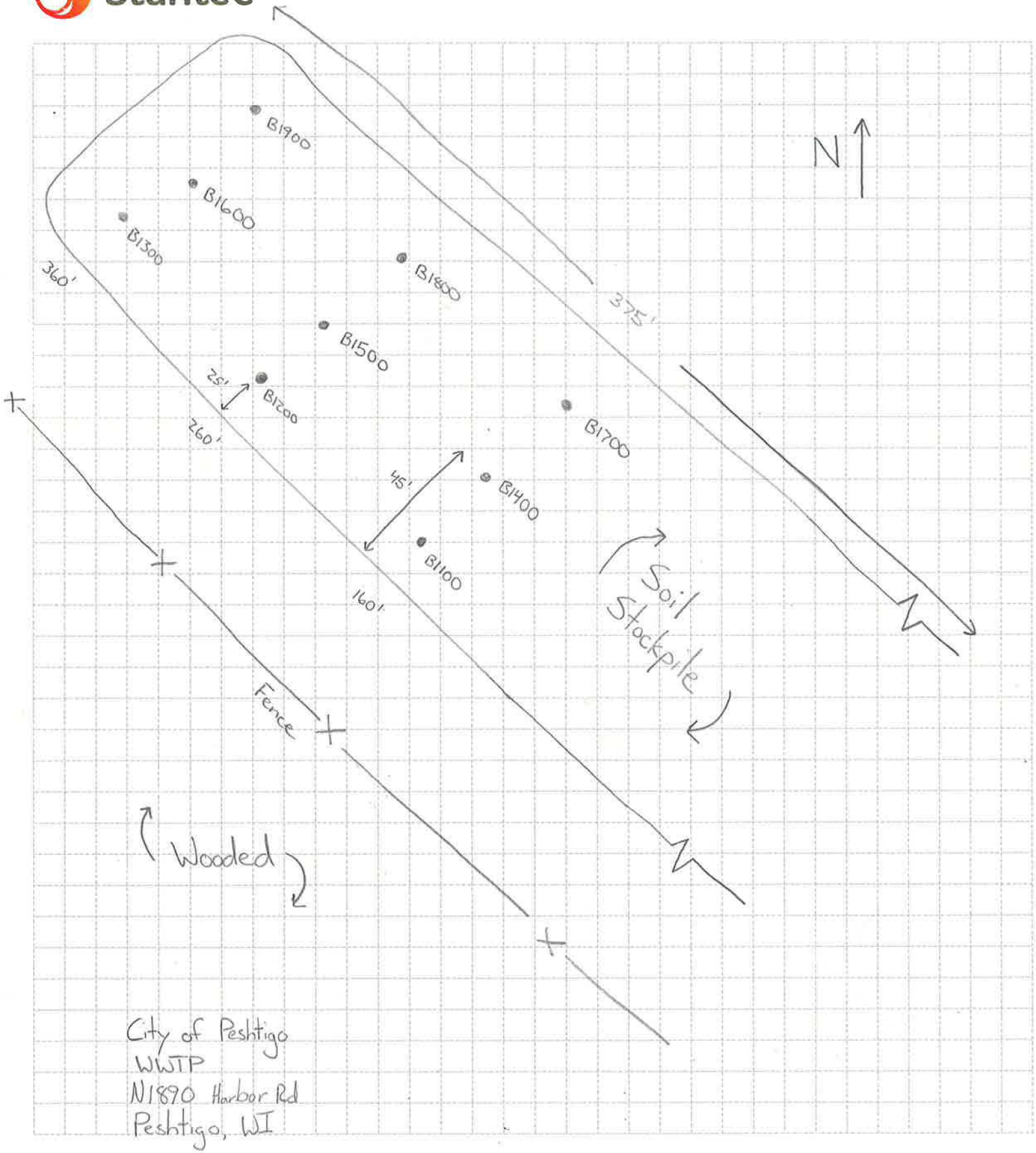


City of Peshtigo
WWTP
N1890 Harbor Rd
Peshtigo, WI

Designed by:

Checked by:

Stantec



City of Peshtigo
WWTP
N1890 Harbor Rd
Peshtigo, WI

Designed by:

Checked by:

Table 2 - Detected Soil Sample RCRA Metals and PCB Laboratory results, City of Peshtigo Property, N1890 Harbor Road, Peshtigo, Wisconsin

Boring Number	Sample Number	Depth (fbg)	Soil Description	Estimated Depth to Groundwater (fbg)	Date Collected	Laboratory Result (milligrams/kilogram)														
						RCRA Metals								PCBs						
						Arsenic (total)	Barium	Cadmium	Chromium	Lead (total)	Mercury	Selenium	Silver	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
WDNR Proposed RCL for Protection from Direct Contact Risk (Non-Industrial)						**8*** [0.613]	15,300	70	NE	400	3.13	391	391	3.93	0.19	0.17	0.21	0.21	0.213	0.216
WDNR Proposed RCL for Protection of Groundwater						**8*** [0.584]	**364*** [164.8]	**1*** [0.752]	360,000	**52*** [27]	0.208	0.52	0.85	NE	NE	NE	NE	NE	NE	NE
Background Threshold Value (BTV)						8	364	1	44	52	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
B100	S1-1	0-5	Fine Sand	---	10/11/16	<0.67	7.80	<0.08	4.43	1.10	0.0172 J	<0.55	<0.44	---	---	---	---	---	---	---
B200	S1-2	0-5	Fine Sand	---	10/11/16	<0.67	7.73	<0.08	4.04	<0.26	<0.0131	<0.55	<0.44	<0.0035	<0.0054	<0.0042	<0.0032	<0.0032	<0.0047	<0.0049
B300	S1-3	0-5	Fine Sand	---	10/11/16	<0.67	11.9	<0.08	4.48	1.75	<0.0131	<0.55	<0.44	---	---	---	---	---	---	---
B400	S1-4	0-5	Fine Sand	---	10/11/16	0.985 J	13.3	<0.08	4.90	3.10	<0.0131	<0.55	<0.44	---	---	---	---	---	---	---
B500	S1-5	0-5	Fine Sand	---	10/11/16	<0.67	9.67	<0.08	5.54	0.547 J	<0.0131	<0.55	<0.44	<0.0035	<0.0054	<0.0042	<0.0032	<0.0032	<0.0047	<0.0049
B600	S1-6	0-5	Fine Sand	---	10/11/16	<0.67	7.52	<0.08	4.72	0.39 J	<0.0131	<0.55	<0.44	---	---	---	---	---	---	---
B700	S1-7	0-5	Fine Sand	---	10/11/16	<0.37	11.5	<0.08	4.44	2.01	<0.0131	**0.65 J**	<0.44	<0.0035	<0.0054	<0.0042	<0.0032	<0.0032	<0.0047	<0.0049
B800	S1-8	0-5	Fine Sand	---	10/11/16	<0.67	7.13	<0.08	4.21	1.19	<0.0131	**0.66 J**	<0.44	---	---	---	---	---	---	---
B900	S1-9	0-5	Fine Sand	---	10/11/16	<0.67	9.42	<0.08	5.29	0.58 J	<0.0131	<0.55	<0.44	---	---	---	---	---	---	---
B1000	S1-10	0-5	Fine Sand	---	10/11/16	<0.67	10.8	<0.08	5.61	0.35 J	<0.0131	<0.55	<0.44	<0.0035	<0.0054	<0.0042	<0.0032	<0.0032	<0.0047	<0.0049
B1100	S1-11	0-5	Fine Sand	---	10/19/16	<1.34	8.93	<0.16	3.82	<0.52	<0.0131	<1.1	<0.88	<0.0035	<0.0054	<0.0042	<0.0032	<0.0032	<0.0047	<0.0049
B1200	S1-12	0-5	Fine Sand	---	10/19/16	<1.34	6.89	<0.16	3.56	0.61 J	<0.0131	<1.1	<0.88	---	---	---	---	---	---	---
B1300	S1-13	0-5	Fine Sand	---	10/19/16	<1.34	10.7	<0.16	3.92	1.68 J	0.0216 J	<1.1	<0.88	---	---	---	---	---	---	---
B1400	S1-14	0-5	Fine Sand	---	10/19/16	<1.34	8.15	<0.16	3.77	0.90 J	<0.0131	<1.1	<0.88	---	---	---	---	---	---	---
B1500	S1-15	0-5	Fine Sand	---	10/19/16	<1.34	6.43	<0.16	2.99	0.73 J	<0.0131	<1.1	<0.88	<0.0035	<0.0054	<0.0042	<0.0032	<0.0032	<0.0047	<0.0049
B1600	S1-16	0-5	Fine Sand	---	10/19/16	<1.34	8.63	<0.16	4.32	<0.52	0.0168 J	<1.1	<0.88	---	---	---	---	---	---	---
B1700	S1-17	0-5	Fine Sand	---	10/19/16	<1.34	7.01	<0.16	4.01	0.73 J	<0.0131	<1.1	<0.88	---	---	---	---	---	---	---
B1800	S1-18	0-5	Fine Sand	---	10/19/16	<1.34	7.51	<0.16	3.45	1.1 J	<0.0131	<1.1	<0.88	---	---	---	---	---	---	---
B1900	S1-19	0-5	Fine Sand	---	10/19/16	<1.34	8.55	<0.16	3.42	1.26 J	<0.0131	<1.1	<0.88	<0.0035	<0.0054	<0.0042	<0.0032	<0.0032	<0.0047	<0.0049

Key:

<x	= compound not detected to a detection limit of x
---	= not laboratory analyzed
XX* [XXX]	= standard in bold are background threshold values (BTVs) being utilized for the purpose of evaulation under ch. NR700 WAC. The established WAC RCL is noted in brackets.
XXX	= exceeds WDNR Non-Industrial RCL for direct contact risk
XXX	= exceeds WDNR RCL for protection of groundwater and/or BTV
NE	= not established by WAC (Wis. Adm. Code) or WDNR Soil RCL Summary Table
*	= The WDNR has determined state-wide soil BTVs (February 2013). Therefore, reported values less than BTVs are not considered a direct contact or groundwater pathway concern with respect to site releases requiring further remediation action. However, the detection could represent a personal health risk if detected above health based standards.
**	= sample collected below the observed low water table
"J"	= analyte detected between the limit of detection and limit of quantification
iui	= instrument units as isobutylene
PID	= photoionization detector
RCL	= residual contaminant level

Notes:

WDNR soil RCL Summary table (June 2016) used to establish RCLs for groundwater protection and direct contact.
For the purpose of this evaluation under ch. NR 700, background threshold values are being considered as representative of background conditions.
However, constituent concentrations less than background threshold values may represent a potential health risk if concentrations are greater than health-based standards.

Table 2b - Detected Soil Sample PAH Laboratory Results, City of Peshtigo Property, N1890 Harbor Road, Peshtigo, Wisconsin

Boring Number	Sample Number	Depth (fbg)	Soil Description	Date Collected	PAH Compound Laboratory Result (milligram/kilogram)																	
					Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthrancene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene
WDNR Proposed RCL for Protection from Direct Contact Risk (Non-Industrial)					3,440	NE	17,200	0.147	0.015	0.148	NE	1.48	14.8	0.015	2,290	2,290	0.148	15.6	229	5.15	NE	1,720
WDNR Proposed RCL for Protection of Groundwater					NE	NE	196.9	NE	0.47	0.479	NE	NE	0.144	NE	88.82	14.8	NE	NE	NE	0.658	NE	54.13
SB1100	SB1-11	0-5	Fine Sand	10/19/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126
SB1200	SB1-12	0-5	Fine Sand	10/19/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126
SB1300	SB1-13	0-5	Fine Sand	10/19/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126
SB1400	SB1-14	0-5	Fine Sand	10/19/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126
SB1500	SB1-15	0-5	Fine Sand	10/19/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126
SB1600	SB1-16	0-5	Fine Sand	10/19/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126
SB1700	SB1-17	0-5	Fine Sand	10/19/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126
SB1800	SB1-18	0-5	Fine Sand	10/19/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126
SB1900	SB1-19	0-5	Fine Sand	10/19/16	<0.0135	<0.012	<0.0124	0.0223J	0.016J	0.0229J	<0.0114	<0.0117	0.0172J	<0.0142	0.038J	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	0.0255J	0.0302J

Key:

<x = compound not detected to a detection limit of x
--- = not laboratory analyzed
XXX = exceeds WDNR Non-industrial RCL for direct contact risk
XXX = exceeds WDNR RCL for protection of groundwater and/or BTV
** = sample collected below the observed low water table
"J" = analyte detected between the limit of detection and limit of quantification
iui = instrument units as isobutylene
PID = photoionization detector
RCL = residual contaminant level

Notes: WDNR soil RCL Summary table (June 2016) used to establish RCLs for groundwater protection and direct contact.

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

LYNELLE CAINE
STANTEC
1165 SCHEURING ROAD
DE PERE WI 54115

Report Date *19-Oct-16*

Project Name MARINETTE
Project # 193704595

Invoice # E31876

Lab Code 5031876A
Sample ID S1-1
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.0	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	7.80	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	4.43	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	1.10	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	0.0172 "J"	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/13/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/13/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/13/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/13/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/13/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/13/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/13/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/13/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/13/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/13/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/13/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/13/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/13/2016	MJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876A
Sample ID S1-1
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/12/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/12/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/12/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/12/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/12/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/12/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/12/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/12/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/12/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/12/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/12/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/12/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/12/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/12/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/12/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/12/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/12/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/12/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/12/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/12/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/12/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/12/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/12/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/12/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/12/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/12/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/12/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/12/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/12/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/12/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/12/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/12/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/12/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/12/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/12/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/12/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/12/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/12/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/12/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/12/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/12/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/12/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/12/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/12/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/12/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/12/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/12/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/12/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/12/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/12/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/12/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/12/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/12/2016	CJR	1
SUR - Dibromofluoromethane	112	Rec %			1	8260B		10/12/2016	CJR	1
SUR - Toluene-d8	100	Rec %			1	8260B		10/12/2016	CJR	1
SUR - 4-Bromofluorobenzene	106	Rec %			1	8260B		10/12/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	116	Rec %			1	8260B		10/12/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876B
Sample ID S1-2
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.1	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	7.73	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	4.04	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	< 0.26	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/13/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/13/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/13/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/13/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/13/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/13/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/13/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/13/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/13/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/13/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/13/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/13/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/13/2016	MJR	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		10/18/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		10/18/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		10/18/2016	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		10/18/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		10/18/2016	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		10/18/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		10/18/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876B
Sample ID S1-2
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	100	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Dibromofluoromethane	102	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Toluene-d8	101	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	109	Rec %			1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876C
Sample ID S1-3
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.3	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	11.9	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	4.48	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	1.75	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/13/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/13/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/13/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/13/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/13/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/13/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/13/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/13/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/13/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/13/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/13/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/13/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/13/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876C
Sample ID S1-3
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/13/2016	CJR	1
SUR - Toluene-d8	101	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	104	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Dibromofluoromethane	106	Rec %			1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876D
Sample ID S1-4
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.3	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	0.985 "J"	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	13.3	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	4.90	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	3.10	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/13/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/13/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/13/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/13/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/13/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/13/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/13/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/13/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/13/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/13/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/13/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/13/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/13/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876D
Sample ID S1-4
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	115	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	104	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Dibromofluoromethane	99	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Toluene-d8	98	Rec %			1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876E
Sample ID S1-5
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.9	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	9.67	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	5.54	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	0.547 "J"	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/13/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/13/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/13/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/13/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/13/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/13/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/13/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/13/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/13/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/13/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/13/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/13/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/13/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/13/2016	MJR	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		10/18/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		10/18/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		10/18/2016	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		10/18/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		10/18/2016	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		10/18/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		10/18/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876E
Sample ID S1-5
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/13/2016	CJR	1
SUR - Dibromofluoromethane	99	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	107	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	102	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Toluene-d8	93	Rec %			1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876F
Sample ID S1-6
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.1	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	7.52	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	4.72	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	0.39 "J"	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/14/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/14/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/14/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/14/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/14/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/14/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/14/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/14/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/14/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/14/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/14/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876F
Sample ID S1-6
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/13/2016	CJR	1
SUR - Dibromofluoromethane	106	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Toluene-d8	95	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	103	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	108	Rec %			1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876G
Sample ID S1-7
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.9	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	11.5	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	4.44	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	2.01	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	0.65 "J"	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/14/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/14/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/14/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/14/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/14/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/14/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/14/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/14/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/14/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/14/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/14/2016	MJR	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		10/18/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		10/18/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		10/18/2016	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		10/18/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		10/18/2016	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		10/18/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		10/18/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876G
Sample ID S1-7
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Dibromofluoromethane	113	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Toluene-d8	96	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	118	Rec %			1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876H
Sample ID S1-8
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.5	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	7.13	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	4.21	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	1.19	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	0.66 "J"	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/14/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/14/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/14/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/14/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/14/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/14/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/14/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/14/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/14/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/14/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/14/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876H
Sample ID S1-8
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/13/2016	CJR	1
SUR - Toluene-d8	101	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	117	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Dibromofluoromethane	109	Rec %			1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876I
Sample ID S1-9
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.5	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	9.42	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	5.29	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	0.58 "J"	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/14/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/14/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/14/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/14/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/14/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/14/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/14/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/14/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/14/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/14/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/14/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876I
Sample ID S1-9
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	106	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	107	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Dibromofluoromethane	101	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Toluene-d8	99	Rec %			1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876J
Sample ID S1-10
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.7	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	10.8	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	5.61	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	0.35 "J"	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/14/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/14/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/14/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/14/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/14/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/14/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/14/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/14/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/14/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/14/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/14/2016	MJR	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		10/19/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		10/19/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		10/19/2016	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		10/19/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		10/19/2016	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		10/19/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		10/19/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31876
Project # 193704595

Lab Code 5031876J
Sample ID S1-10
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/13/2016	CJR	1
SUR - Toluene-d8	98	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	106	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	100	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Dibromofluoromethane	106	Rec %			1	8260B		10/13/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

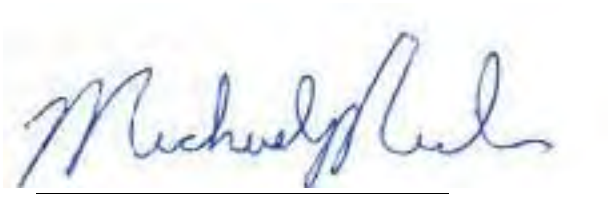
Code	*Comment*
1	Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

ESC denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Stantec

Northern Environmental
Hydrologists • Engineers • Surveyors • Scientists

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

Page 1 of 1
No: 21323

Check office originating request
1165 Schevring Rd
De Pere, WI 54115

☐ 954 Circle Drive, Green Bay, WI 54304, 920-592-8400, FAX 920-592-8444
☐ 330 South 4th Avenue, Park Falls, WI 54552, 715-762-1544, Fax 715-762-1844
☐ 85 Revere Drive, Suite H, Northbrook, IL 60062, 847-562-8577, FAX 847-562-8552
☐ 3349 Southgate Court SW #102, Cedar Rapids, IA 52404, 319-365-0466, FAX 319-365-0464
☐ _____
☐ 210 South Highway 141, Suite D, Crivitz, WI 54114, 715-854-3360, FAX 715-854-3361
☐ 12075 Corporate Pkwy, Suite 210, Mequon, WI 53092, 262-241-3133, FAX 262-241-8222
☐ 1203 Storbeck Drive, Waupun, WI 53963, 920-324-8600, FAX 920-324-3023
☐ 815 Sheldon Avenue, Houghton, MI 49931, 906-483-2100, FAX 906-483-2104
☐ 1213 Center St., Suite A, Lansing, MI 48906, 517-702-0470, FAX 517-702-0477
☐ 315 Sanborn Avenue, Suite 200, Ashland, WI 54806, 715-682-1116, Fax 715-682-1118

Project No: 193704595 Task No:
Project Location: (city) Marinette
Project Manager: Lynelle Caine
Sampler: (name) Jeff Brandl
Sampler: (Signature)
Sampling Date(s): 10-11-16
Reports to be Sent to: Jeff.brandl@stantec.com

Laboratory: Synergy
Wisconsin DNR Certification #: 445037560
Laboratory Contact: Mike Rickes
Price Quote:

TURNAROUND TIME REQUIRED
☐ Normal ☒ Rush
Date Needed 10-17-16

Sample Integrity - To be completed by receiving lab
Seal intact upon receipt ☒ yes ☐ no SR
Method of shipment
Contents Temperature 0.1 / 1.2 °C Refrigerator No.

ANALYSES REQUESTED

Lab ID No.	Sample No.	Collection Date	Collection Time	No. of Containers, Size & Type	Description Water	Description Soil	Description Other	Preservative	DRO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method	Pb (EPA Method	VOC	PAH	RCRA metals	PCB's
50318761A	S1-1	10-11-16	1249	1-4oz, 1-2oz, 40-1		X		methanol								X	X	X	
B	S1-2		1253			X										X	X	X	X
C	S1-3		1302			X										X	X	X	
D	S1-4		1248			X										X	X	X	
E	S1-5		1255			X										X	X	X	X
F	S1-6		1303			X										X	X	X	
G	S1-7		1306			X										X	X	X	X
H	S1-8		1310			X										X	X	X	
I	S1-9		1310			X										X	X	X	
J	S1-10		1315			X										X	X	X	X

Packed for Shipping by: Jeff Brandl
Shipment Date: 10-11-16

Comments:
3-Day turn - Analysis back by 10-17-16
RUSH ADD PCB's TO S1-2, 5, 7, 10 per Jeff on 10-14-16 (AWS)

Relinquished By:	Date:	Time:	Company:
	10-11-16		Stantec
	10-12-16		SEL
	10-12-16	7:15 AM	

Relinquished By:	Date:	Time:	Company:

Relinquished By:	Date:	Time:	Company:

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

LYNELLE CAINE
STANTEC
1165 SCHEURING ROAD
DE PERE WI 54115

Report Date *25-Oct-16*

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940A
Sample ID S1-11
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.6	%			1	5021		10/20/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 1.34	mg/Kg	1.34	4.44	2	6010B		10/25/2016	CWT	1 49
Barium, Total	8.93	mg/Kg	0.38	1.26	2	6010B		10/25/2016	CWT	1 49
Cadmium, Total	< 0.16	mg/Kg	0.16	0.5	2	6010B		10/25/2016	CWT	1 49
Chromium, Total	3.82	mg/Kg	0.32	1.02	2	6010B		10/25/2016	CWT	1 49
Lead, Total	< 0.52	mg/Kg	0.52	1.72	2	6010B		10/25/2016	CWT	1 49
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/21/2016	CWT	1
Selenium, Total	< 1.1	mg/Kg	1.1	3.62	2	6010B		10/25/2016	CWT	1 49
Silver, Total	< 0.88	mg/Kg	0.88	2.76	2	6010B		10/25/2016	CWT	1 49
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/21/2016	10/22/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/21/2016	10/22/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/21/2016	10/22/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/21/2016	10/22/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/21/2016	10/22/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/21/2016	10/22/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/21/2016	10/22/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/21/2016	10/22/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/21/2016	10/22/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/21/2016	10/22/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/21/2016	10/22/2016	MJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940A
Sample ID S1-11
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		10/24/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		10/24/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		10/24/2016	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		10/24/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		10/24/2016	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		10/24/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		10/24/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/20/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/20/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/20/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/20/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/20/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/20/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/20/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/20/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/20/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/20/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/20/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/20/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/20/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/20/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/20/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/20/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/20/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/20/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/20/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/20/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/20/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/20/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/20/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/20/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/20/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/20/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/20/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/20/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/20/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/20/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/20/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/20/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/20/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940A
Sample ID S1-11
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/20/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/20/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/20/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	106	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 4-Bromofluorobenzene	95	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Dibromofluoromethane	100	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Toluene-d8	97	Rec %			1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940B
Sample ID S1-12
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.1	%			1	5021		10/20/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 1.34	mg/Kg	1.34	4.44	2	6010B		10/24/2016	CWT	1 49
Barium, Total	6.89	mg/Kg	0.38	1.26	2	6010B		10/24/2016	CWT	1 49
Cadmium, Total	< 0.16	mg/Kg	0.16	0.5	2	6010B		10/24/2016	CWT	1 49
Chromium, Total	3.56	mg/Kg	0.32	1.02	2	6010B		10/24/2016	CWT	1 49
Lead, Total	0.61 "J"	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/21/2016	CWT	1
Selenium, Total	< 1.1	mg/Kg	1.1	3.62	2	6010B		10/24/2016	CWT	1 49
Silver, Total	< 0.88	mg/Kg	0.88	2.76	2	6010B		10/24/2016	CWT	1 49
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/21/2016	10/22/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/21/2016	10/22/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/21/2016	10/22/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/21/2016	10/22/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/21/2016	10/22/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/21/2016	10/22/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/21/2016	10/22/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/21/2016	10/22/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/21/2016	10/22/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/21/2016	10/22/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/21/2016	10/22/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/20/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/20/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/20/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/20/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/20/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/20/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/20/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/20/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/20/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/20/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/20/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/20/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/20/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940B
Sample ID S1-12
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/20/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/20/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/20/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/20/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/20/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/20/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/20/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/20/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/20/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/20/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/20/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/20/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/20/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/20/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/20/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/20/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/20/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/20/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/20/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/20/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/20/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/20/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/20/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/20/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	111	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 4-Bromofluorobenzene	104	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Dibromofluoromethane	103	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Toluene-d8	100	Rec %			1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940C
Sample ID S1-13
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.6	%			1	5021		10/20/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 1.34	mg/Kg	1.34	4.44	2	6010B		10/24/2016	CWT	1 49
Barium, Total	10.7	mg/Kg	0.38	1.26	2	6010B		10/24/2016	CWT	1 49
Cadmium, Total	< 0.16	mg/Kg	0.16	0.5	2	6010B		10/24/2016	CWT	1 49
Chromium, Total	3.92	mg/Kg	0.32	1.02	2	6010B		10/24/2016	CWT	1 49
Lead, Total	1.68 "J"	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49
Mercury, Total	0.0216 "J"	mg/kg	0.0131	0.0435	1	7471		10/21/2016	CWT	1
Selenium, Total	< 1.1	mg/Kg	1.1	3.62	2	6010B		10/24/2016	CWT	1 49
Silver, Total	< 0.88	mg/Kg	0.88	2.76	2	6010B		10/24/2016	CWT	1 49
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/21/2016	10/22/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/21/2016	10/22/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/21/2016	10/22/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/21/2016	10/22/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/21/2016	10/22/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/21/2016	10/22/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/21/2016	10/22/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/21/2016	10/22/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/21/2016	10/22/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/21/2016	10/22/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/21/2016	10/22/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/20/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/20/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/20/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/20/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/20/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/20/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/20/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/20/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/20/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/20/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/20/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/20/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/20/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940C
Sample ID S1-13
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/20/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/20/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/20/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/20/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/20/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/20/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/20/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/20/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/20/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/20/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/20/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/20/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/20/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/20/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/20/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/20/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/20/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/20/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/20/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/20/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/20/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/20/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/20/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/20/2016	CJR	1
SUR - Toluene-d8	102	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	102	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 4-Bromofluorobenzene	99	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Dibromofluoromethane	102	Rec %			1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940D
Sample ID S1-14
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.9	%			1	5021		10/20/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 1.34	mg/Kg	1.34	4.44	2	6010B		10/24/2016	CWT	1 49
Barium, Total	8.15	mg/Kg	0.38	1.26	2	6010B		10/24/2016	CWT	1 49
Cadmium, Total	< 0.16	mg/Kg	0.16	0.5	2	6010B		10/24/2016	CWT	1 49
Chromium, Total	3.77	mg/Kg	0.32	1.02	2	6010B		10/24/2016	CWT	1 49
Lead, Total	0.90 "J"	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/21/2016	CWT	1
Selenium, Total	< 1.1	mg/Kg	1.1	3.62	2	6010B		10/24/2016	CWT	1 49
Silver, Total	< 0.88	mg/Kg	0.88	2.76	2	6010B		10/24/2016	CWT	1 49
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/21/2016	10/22/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/21/2016	10/22/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/21/2016	10/22/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/21/2016	10/22/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/21/2016	10/22/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/21/2016	10/22/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/21/2016	10/22/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/21/2016	10/22/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/21/2016	10/22/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/21/2016	10/22/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/21/2016	10/22/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/20/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/20/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/20/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/20/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/20/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/20/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/20/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/20/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/20/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/20/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/20/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/20/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/20/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940D
Sample ID S1-14
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/20/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/20/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/20/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/20/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/20/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/20/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/20/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/20/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/20/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/20/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/20/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/20/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/20/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/20/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/20/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/20/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/20/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/20/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/20/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/20/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/20/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/20/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/20/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/20/2016	CJR	1
SUR - Toluene-d8	101	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Dibromofluoromethane	103	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	111	Rec %			1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940E
Sample ID S1-15
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.7	%			1	5021		10/20/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 1.34	mg/Kg	1.34	4.44	2	6010B		10/24/2016	CWT	1 49
Barium, Total	6.43	mg/Kg	0.38	1.26	2	6010B		10/24/2016	CWT	1 49
Cadmium, Total	< 0.16	mg/Kg	0.16	0.5	2	6010B		10/24/2016	CWT	1 49
Chromium, Total	2.99	mg/Kg	0.32	1.02	2	6010B		10/24/2016	CWT	1 49
Lead, Total	0.73 "J"	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/21/2016	CWT	1
Selenium, Total	< 1.1	mg/Kg	1.1	3.62	2	6010B		10/24/2016	CWT	1 49
Silver, Total	< 0.88	mg/Kg	0.88	2.76	2	6010B		10/24/2016	CWT	1 49
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/21/2016	10/22/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/21/2016	10/22/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/21/2016	10/22/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/21/2016	10/22/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/21/2016	10/22/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/21/2016	10/22/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/21/2016	10/22/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/21/2016	10/22/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/21/2016	10/22/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/21/2016	10/22/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/21/2016	10/22/2016	MJR	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		10/24/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		10/24/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		10/24/2016	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		10/24/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		10/24/2016	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		10/24/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		10/24/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/20/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/20/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/20/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/20/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/20/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/20/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/20/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/20/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/20/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/20/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940E
Sample ID S1-15
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/20/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/20/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/20/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/20/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/20/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/20/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/20/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/20/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/20/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/20/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/20/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/20/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/20/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/20/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/20/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/20/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/20/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/20/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/20/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/20/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/20/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/20/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/20/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/20/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/20/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/20/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/20/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	113	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Dibromofluoromethane	107	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Toluene-d8	98	Rec %			1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940F
Sample ID S1-16
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.8	%			1	5021		10/20/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 1.34	mg/Kg	1.34	4.44	2	6010B		10/24/2016	CWT	1 49
Barium, Total	8.63	mg/Kg	0.38	1.26	2	6010B		10/24/2016	CWT	1 49
Cadmium, Total	< 0.16	mg/Kg	0.16	0.5	2	6010B		10/24/2016	CWT	1 49
Chromium, Total	4.32	mg/Kg	0.32	1.02	2	6010B		10/24/2016	CWT	1 49
Lead, Total	< 0.52	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49
Mercury, Total	0.0168 "J"	mg/kg	0.0131	0.0435	1	7471		10/21/2016	CWT	1
Selenium, Total	< 1.1	mg/Kg	1.1	3.62	2	6010B		10/24/2016	CWT	1 49
Silver, Total	< 0.88	mg/Kg	0.88	2.76	2	6010B		10/24/2016	CWT	1 49
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/21/2016	10/22/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/21/2016	10/22/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/21/2016	10/22/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/21/2016	10/22/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/21/2016	10/22/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/21/2016	10/22/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/21/2016	10/22/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/21/2016	10/22/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/21/2016	10/22/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/21/2016	10/22/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/21/2016	10/22/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/20/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/20/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/20/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/20/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/20/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/20/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/20/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/20/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/20/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/20/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/20/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/20/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/20/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940F
Sample ID S1-16
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/20/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/20/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/20/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/20/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/20/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/20/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/20/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/20/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/20/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/20/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/20/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/20/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/20/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/20/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/20/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/20/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/20/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/20/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/20/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/20/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/20/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/20/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/20/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/20/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	111	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Dibromofluoromethane	104	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Toluene-d8	99	Rec %			1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940G
Sample ID S1-17
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.5	%			1	5021		10/20/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 1.34	mg/Kg	1.34	4.44	2	6010B		10/24/2016	CWT	1 49
Barium, Total	7.01	mg/Kg	0.38	1.26	2	6010B		10/24/2016	CWT	1 49
Cadmium, Total	< 0.16	mg/Kg	0.16	0.5	2	6010B		10/24/2016	CWT	1 49
Chromium, Total	4.01	mg/Kg	0.32	1.02	2	6010B		10/24/2016	CWT	1 49
Lead, Total	0.73 "J"	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/21/2016	CWT	1
Selenium, Total	< 1.1	mg/Kg	1.1	3.62	2	6010B		10/24/2016	CWT	1 49
Silver, Total	< 0.88	mg/Kg	0.88	2.76	2	6010B		10/24/2016	CWT	1 49
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/21/2016	10/22/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/21/2016	10/22/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/21/2016	10/22/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/21/2016	10/22/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/21/2016	10/22/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/21/2016	10/22/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/21/2016	10/22/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/21/2016	10/22/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/21/2016	10/22/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/21/2016	10/22/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/21/2016	10/22/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/20/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/20/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/20/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/20/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/20/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/20/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/20/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/20/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/20/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/20/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/20/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/20/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/20/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940G
Sample ID S1-17
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/20/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/20/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/20/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/20/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/20/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/20/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/20/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/20/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/20/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/20/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/20/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/20/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/20/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/20/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/20/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/20/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/20/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/20/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/20/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/20/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/20/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/20/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/20/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/20/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 4-Bromofluorobenzene	98	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Dibromofluoromethane	105	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Toluene-d8	101	Rec %			1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940H
Sample ID S1-18
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.4	%			1	5021		10/20/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 1.34	mg/Kg	1.34	4.44	2	6010B		10/24/2016	CWT	1 49
Barium, Total	7.51	mg/Kg	0.38	1.26	2	6010B		10/24/2016	CWT	1 49
Cadmium, Total	< 0.16	mg/Kg	0.16	0.5	2	6010B		10/24/2016	CWT	1 49
Chromium, Total	3.45	mg/Kg	0.32	1.02	2	6010B		10/24/2016	CWT	1 49
Lead, Total	1.1 "J"	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/21/2016	CWT	1
Selenium, Total	< 1.1	mg/Kg	1.1	3.62	2	6010B		10/24/2016	CWT	1 49
Silver, Total	< 0.88	mg/Kg	0.88	2.76	2	6010B		10/24/2016	CWT	1 49
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/21/2016	10/22/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/21/2016	10/22/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/21/2016	10/22/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/21/2016	10/22/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/21/2016	10/22/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/21/2016	10/22/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/21/2016	10/22/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/21/2016	10/22/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/21/2016	10/22/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/21/2016	10/22/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/21/2016	10/22/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/20/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/20/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/20/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/20/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/20/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/20/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/20/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/20/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/20/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/20/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/20/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/20/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/20/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940H
Sample ID S1-18
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/20/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/20/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/20/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/20/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/20/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/20/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/20/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/20/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/20/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/20/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/20/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/20/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/20/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/20/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/20/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/20/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/20/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/20/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/20/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/20/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/20/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/20/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/20/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/20/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	99	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 4-Bromofluorobenzene	99	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Dibromofluoromethane	99	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Toluene-d8	96	Rec %			1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940I
Sample ID S1-19
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.1	%			1	5021		10/20/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 1.34	mg/Kg	1.34	4.44	2	6010B		10/24/2016	CWT	1 49
Barium, Total	8.55	mg/Kg	0.38	1.26	2	6010B		10/24/2016	CWT	1 49
Cadmium, Total	< 0.16	mg/Kg	0.16	0.5	2	6010B		10/24/2016	CWT	1 49
Chromium, Total	3.42	mg/Kg	0.32	1.02	2	6010B		10/24/2016	CWT	1 49
Lead, Total	1.26 "J"	mg/Kg	0.52	1.72	2	6010B		10/24/2016	CWT	1 49
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/21/2016	CWT	1
Selenium, Total	< 1.1	mg/Kg	1.1	3.62	2	6010B		10/24/2016	CWT	1 49
Silver, Total	< 0.88	mg/Kg	0.88	2.76	2	6010B		10/24/2016	CWT	1 49
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/21/2016	10/22/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/21/2016	10/22/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)anthracene	0.0223 "J"	mg/kg	0.0116	0.037	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(a)pyrene	0.016 "J"	mg/kg	0.0113	0.0359	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(b)fluoranthene	0.0229 "J"	mg/kg	0.013	0.0414	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/21/2016	10/22/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/21/2016	10/22/2016	MJR	1
Chrysene	0.0172 "J"	mg/kg	0.0138	0.0439	1	M8270C	10/21/2016	10/22/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluoranthene	0.038 "J"	mg/kg	0.0131	0.0418	1	M8270C	10/21/2016	10/22/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/21/2016	10/22/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/21/2016	10/22/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/21/2016	10/22/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/21/2016	10/22/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/21/2016	10/22/2016	MJR	1
Phenanthrene	0.0255 "J"	mg/kg	0.0109	0.0347	1	M8270C	10/21/2016	10/22/2016	MJR	1
Pyrene	0.0302 "J"	mg/kg	0.0126	0.0401	1	M8270C	10/21/2016	10/22/2016	MJR	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		10/24/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		10/24/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		10/24/2016	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		10/24/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		10/24/2016	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		10/24/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		10/24/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/20/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/20/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/20/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/20/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/20/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/20/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/20/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/20/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/20/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/20/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1

Project Name MARINETTE **Invoice #** E31940
Project # 193704595

Lab Code 5031940I
Sample ID S1-19
Sample Matrix Soil
Sample Date 10/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/20/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/20/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/20/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/20/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/20/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/20/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/20/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/20/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/20/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/20/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/20/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/20/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/20/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/20/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/20/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/20/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/20/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/20/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/20/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/20/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/20/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/20/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/20/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/20/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/20/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/20/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/20/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/20/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/20/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/20/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/20/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/20/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/20/2016	CJR	1
SUR - Toluene-d8	103	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	120	Rec %			1	8260B		10/20/2016	CJR	1
SUR - 4-Bromofluorobenzene	104	Rec %			1	8260B		10/20/2016	CJR	1
SUR - Dibromofluoromethane	107	Rec %			1	8260B		10/20/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

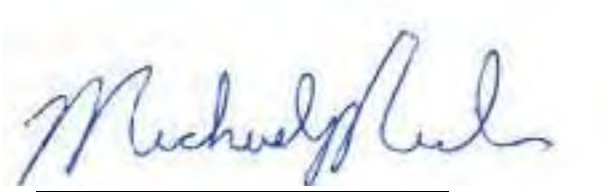
Code	*Comment*
1	Laboratory QC within limits.
49	Sample diluted to compensate for matrix interference.

CWT denotes sub contract lab - Certification #445126660

ESC denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Stantec

North Environmental
Hydrologists • Engineers • Surveyors • Scientists

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

Page 1 of 1
No. 21247

Check office originating request
1165 Scheuring Rd
DePere, WI 54115

☐ 954 Circle Drive, Green Bay, WI 54304, 920-592-6400, FAX 920-592-8444
☐ 330 South 4th Avenue, Park Falls, WI 54552, 715-762-1544, Fax 715-762-1844
☐ 85 Revere Drive, Suite H, Northbrook, IL 60062, 847-562-8577, FAX 847-562-8552
☐ 3349 Southgate Court SW #102, Cedar Rapids, IA 52404, 319-365-0466, FAX 319-365-0464
☐ _____
☐ 210 South Highway 141, Suite D, Crivitz, WI 54114, 715-854-3360, FAX 715-854-3361
☐ 12075 Corporate Pkwy, Suite 210, Mequon, WI 53092, 262-241-3133, FAX 262-241-8222
☐ 1203 Storbeck Drive, Waupun, WI 53963, 920-324-8600, FAX 920-324-3023
☐ 815 Sheldon Avenue, Houghton, MI 49931, 906-483-2100, FAX 906-483-2104
☐ 1213 Center St., Suite A, Lansing, MI 48906, 517-702-0470, FAX 517-702-0477
☐ 315 Sanborn Avenue, Suite 200, Ashland, WI 54806, 715-682-1116, Fax 715-682-1118

Project No: 193704595 Task No:
Project Location: (city) Marinette
Project Manager: Lynette Caine
Sampler: (name) Jeff Brand
Sampler: (Signature)
Sampling Date(s): 10-19-16
Reports to be Sent to: Jeff.brand@stantec.com

Laboratory: Synergy
Wisconsin DNR Certification #: 445037560
Laboratory Contact: Mike Rickes
Price Quote:

TURNAROUND TIME REQUIRED
☐ Normal ☒ Rush
Date Needed _____

Sample Integrity - To be completed by receiving lab
Seal intact upon receipt ☒ yes ☐ no SFL
Method of shipment _____
Contents Temperature ICE °C Refrigerator No. _____

ANALYSES REQUESTED

Lab ID No.	Sample No.	Collection Date	Collection Time	No. of Containers, Size & Type	Description Water	Description Soil	Description Other	Preservative	DRO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)	VOC	PAH	RCRA Metals	PCBs
1940A	S1-11	10-19-16	1045	1-4oz 2-2oz 1-40ml + Syr.		X		methanol								X	X	X	X
B	S1-12		1050	1-4oz 1-2oz 1-40ml		X										X	X	X	
C	S1-13		1057	↓		X										X	X	X	
D	S1-14		1043	↓		X										X	X	X	
E	S1-15		1048	1-4oz 2-2oz 1-40ml + Syr.		X										X	X	X	X
F	S1-16		1057	1-4oz 1-2oz 1-40ml		X										X	X	X	
G	S1-17		1110	↓		X										X	X	X	
H	S1-18		1115	↓		X										X	X	X	
I	S1-19	V	1110	1-4oz 2-2oz 1-40ml + Syr.		X		↓								X	X	X	X

Packed for Shipping by: Jeff Brand
Shipment Date:

Comments:
* Analysis back by Tuesday 10/25/16 (Noon)

Relinquished By:	Date: 10-20-16	Relinquished By:	Date:	Relinquished By:	Date:
Company: Stantec	Time: 8:10 AM	Company:	Time:	Company:	Time:
Received By:	Date: 10-20-16	Received By:	Date:	Received By:	Date:
Company: SEL	Time: 8:10 AM	Company:	Time:	Company:	Time:

Chapa, Lisa

From: Klauk, Robert H - DNR <Robert.Klauk@wisconsin.gov>
Sent: Tuesday, June 06, 2017 1:27 PM
To: Brand, Jeff
Subject: RE: Sampling Plan for Imported Topsoil at MCABI VPLE Site, 1310-1330 Main Street, Marinette, WI

Jeff,

You may import the topsoil onto the site.

Bob

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Robert Klauk
Phone: 920-662-5164
Robert.Klauk@wisconsin.gov

From: Brand, Jeff [mailto:Jeff.Brand@stantec.com]
Sent: Friday, June 02, 2017 11:03 AM
To: Klauk, Robert H - DNR
Cc: Caine, Lynelle
Subject: Sampling Plan for Imported Topsoil at MCABI VPLE Site, 1310-1330 Main Street, Marinette, WI

Bob,

Attached please find the analytical results of soil samples collected from stockpiled topsoil at the Michael Brown property located at W4273 Mudbrook Road in the Town of Porterfield, WI. The stockpiled topsoil is to be used as part of redevelopment efforts at the Tyco Redevelopment Site (aka Maritime Center of Excellence) at 1310-1330 Main Street, Marinette, WI (the Site). The fill material was sampled for VOCs, PAHs, and RCRA metals according to the sampling plan approved on May 19, 2017. No VOCs or PAHs were detected in any of the samples collected. Selenium was detected in three of the composite samples collected above the RCL for protection of groundwater. All three samples were "J" flagged as the analyte was detected between the laboratory limit of detection and limit of quantification. No other RCRA metals were detected above proposed RCLs in any of the samples. Laboratory analytical results are summarized on the attached tables along with the laboratory analytical report. We are requesting WDNR approval to import the topsoil onto the site for redevelopment use and that no additional sampling be required from the property.

Jeffrey R Brand
Engineer in Training
Stantec
1165 Scheuring Road, De Pere WI 54115-1001
Phone: (920) 278-3208
Cell: (920) 883-8501
Fax: (920) 592-8444
Jeff.Brand@Stantec.com

From: Klauk, Robert H - DNR [mailto:Robert.Klauk@wisconsin.gov]
Sent: Friday, May 19, 2017 7:15 AM
To: Brand, Jeff <Jeff.Brand@stantec.com>
Subject: RE: Sampling Plan for Imported Topsoil at MCABI VPLE Site, 1310-1330 Main Street, Marinette, WI

Jeff,

I am requesting that four composite samples be collected from the soil pile. Each sample is to be analyzed for VOCs, PAHs and RCRA metals.

Bob

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Robert Klauk
Phone: 920-662-5164
Robert.Klauk@wisconsin.gov

From: Brand, Jeff [mailto:Jeff.Brand@stantec.com]
Sent: Thursday, May 18, 2017 11:52 AM
To: Klauk, Robert H - DNR
Cc: Caine, Lynelle
Subject: Sampling Plan for Imported Topsoil at MCABI VPLE Site, 1310-1330 Main Street, Marinette, WI

Hi Bob,

Per our conversation, we are submitting a sampling plan on behalf of MCABI to sample imported fill, specifically topsoil, to be used as part of the redevelopment efforts at the Tyco Redevelopment Site (aka Maritime Center of Excellence) at 1310-1330 Main Street, Marinette, WI. Since the Site is enrolled in the VPLE program, approval from the WDNR is needed prior to importing any fill onto the Site. The general contractor, Moyle Construction, has currently identified a potential source for topsoil material. This sampling plan is for stockpiled topsoil located at W4273 Mudbrook Road in the Town of Porterfield, WI owned by Michael Brown. The stockpiled topsoil originated from a property located at N1997 Sotka Road in the Town of Peshtigo, WI owned by Cameron Hayes. This property was originally sampled by Stantec as a possible source for sand fill for the MCOE project back in October 2016.

Stantec personnel previously visited the origination site of fill source on October 10, 2016. The property is located in the Town of Peshtigo in a rural area that was most recently wooded. The property owner is currently in the process of excavating a pond on the property. A review of aerial photos indicates that the property has been wooded for over 18 years. A residence sits immediately to the south with wooded land surrounding the pond. From a larger regional view, a farm is located to the east with primarily forested land with interspersed residential properties surrounding the property. A review of the WDNR BRRTS online records indicates that the nearest BRRTS case is approximately 2.25 miles from the source property. It is our understanding that approximately 800 to 1,000 cubic yards of topsoil material was stripped from the site and stockpiled at the Michael Brown property located at W4273 Mudbrook Road in the Town of Porterfield, WI during August/September 2016. The Michael Brown site is a rural residential property surrounded by farmland, private residences, and wooded land. A review of the WDNR BRRTS online records indicates that the nearest BRRTS case is approximately 0.45 miles from the

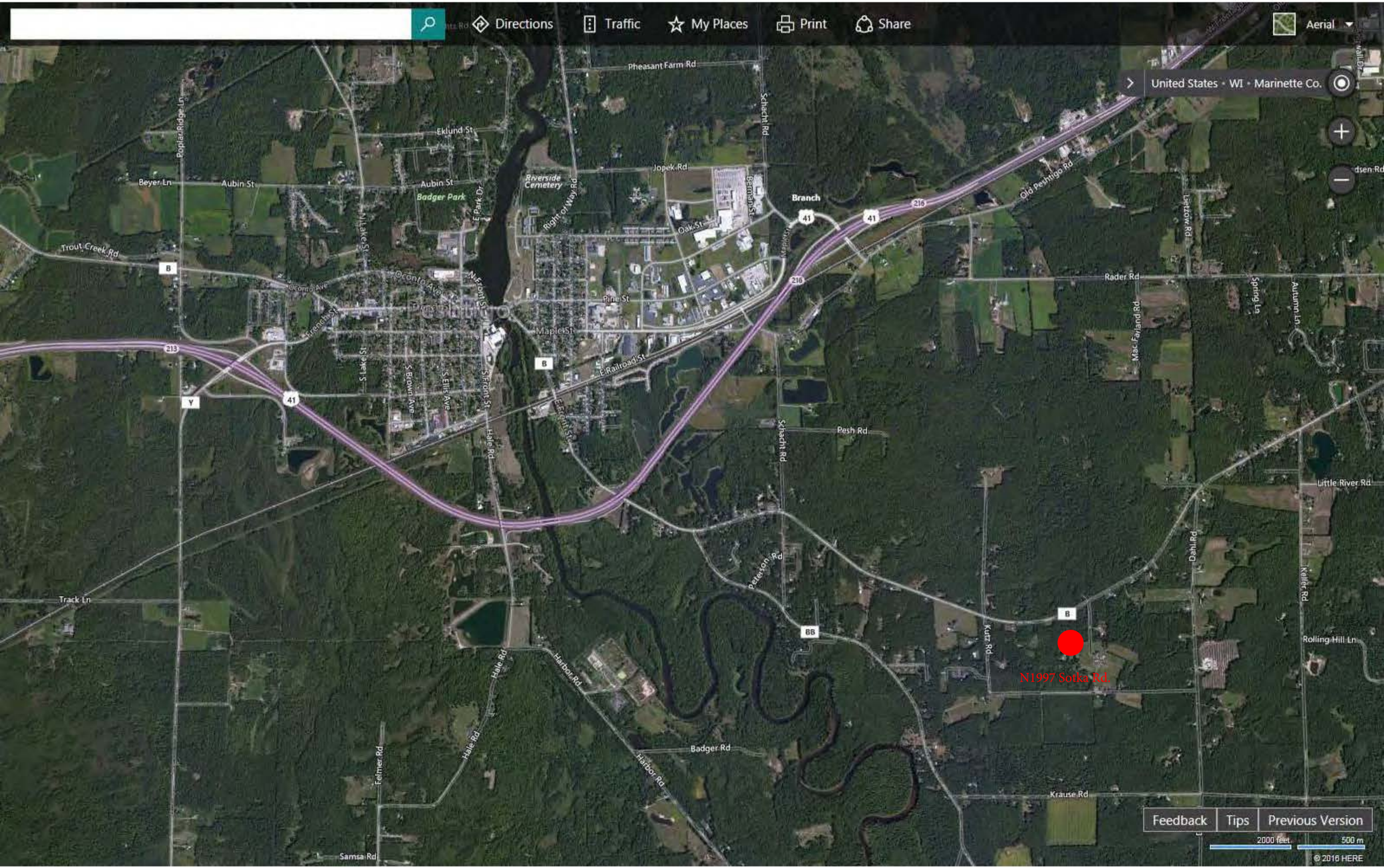
property. Approximately 800 cubic yards of this topsoil material would be imported onto the MCOE Site from this property pending WDNR approval. Maps showing the parcel location and nearest BRRTS sites of the topsoil's origination are attached. Maps showing the current location of the stockpiled topsoil are also attached. The aerial photos were viewed from the Marinette County GIS web site and Google Earth copies which are attached.

Sampling Plan:

Given that the source of the fill material is from a rural area that has historically been undeveloped, it is very unlikely that the fill material from this source has been impacted. Therefore, we are requesting a reduction in the number of samples to be submitted for laboratory analysis as indicated in the WDNR guidance on soil characterization per NR 718.09 (8)(b). Approximately 800 to 1,000 cubic yards of material is stockpiled on-site. Stockpiled material at the W4273 Mudbrook site is anticipated to be homogenous and be a good representation of all the material excavated from origination Site at N1997 Sotka Road, Marinette. Therefore, to characterize the stockpiled fill material, Stantec is proposing to collect up to 4 samples from the soil. The pile will be divided into four quadrants with a composite sample collected from each quadrant. The four composite samples would be submitted for analysis for PAHs and RCRA metals. Two samples will be submitted for VOCs from the two composite samples exhibiting the highest PID readings. The stockpile sampling will be summarized in a brief letter report or email and submitted to the WDNR.

Based on the results of previous sampling, we believe this sampling plan should adequately evaluate the imported fill to be used on the MCOE property. Please let us know if you agree with the sampling plan or have any questions or concerns. The sampling will be completed as soon as WDNR approval of this plan is obtained. Thanks,

Jeffrey R Brand
Engineer in Training
Stantec
1165 Scheuring Road, De Pere WI 54115-1001
Phone: (920) 278-3208
Cell: (920) 883-8501
Fax: (920) 592-8444
Jeff.Brand@Stantec.com


Directions
Traffic
My Places
Print
Share
Aerial
United States • WI • Marinette Co.
Pheasant Farm Rd
Schacht Rd
Eklund St
Poplar Ridge Ln
Beyer Ln
Aubin St
Aubin St
Badger Park
E Park Dr
Riverside Cemetery
Right of Way Rd
Jopek Rd
German St
Branch
Oak St
Old Peshtigo Rd
Lietzow Rd
Trout Creek Rd
B
N Lake St
Oconto Ave
Oconto Ave
N Front St
Pine St
Rader Rd
Mac Farland Rd
Spring Ln
Autumn Ln
French St
Maple St
213
Y
41
S Lake St
S Brown Ave
S Ellis Ave
S Front St
Hale Rd
E Railroad St
E Front St
B
Schacht Rd
Pesh Rd
Little River Rd
Peterson Rd
Dahl Rd
Keller Rd
Track Ln
Hale Rd
Harbor Rd
B
Kurz Rd
Rolling Hill Ln
N1997 Sotka Rd.
Hale Rd
Harbor Rd
Badger Rd
Felmer Rd
Krause Rd
Samsa Rd
Feedback
Tips
Previous Version
2000 feet
500 m
© 2016 HERE

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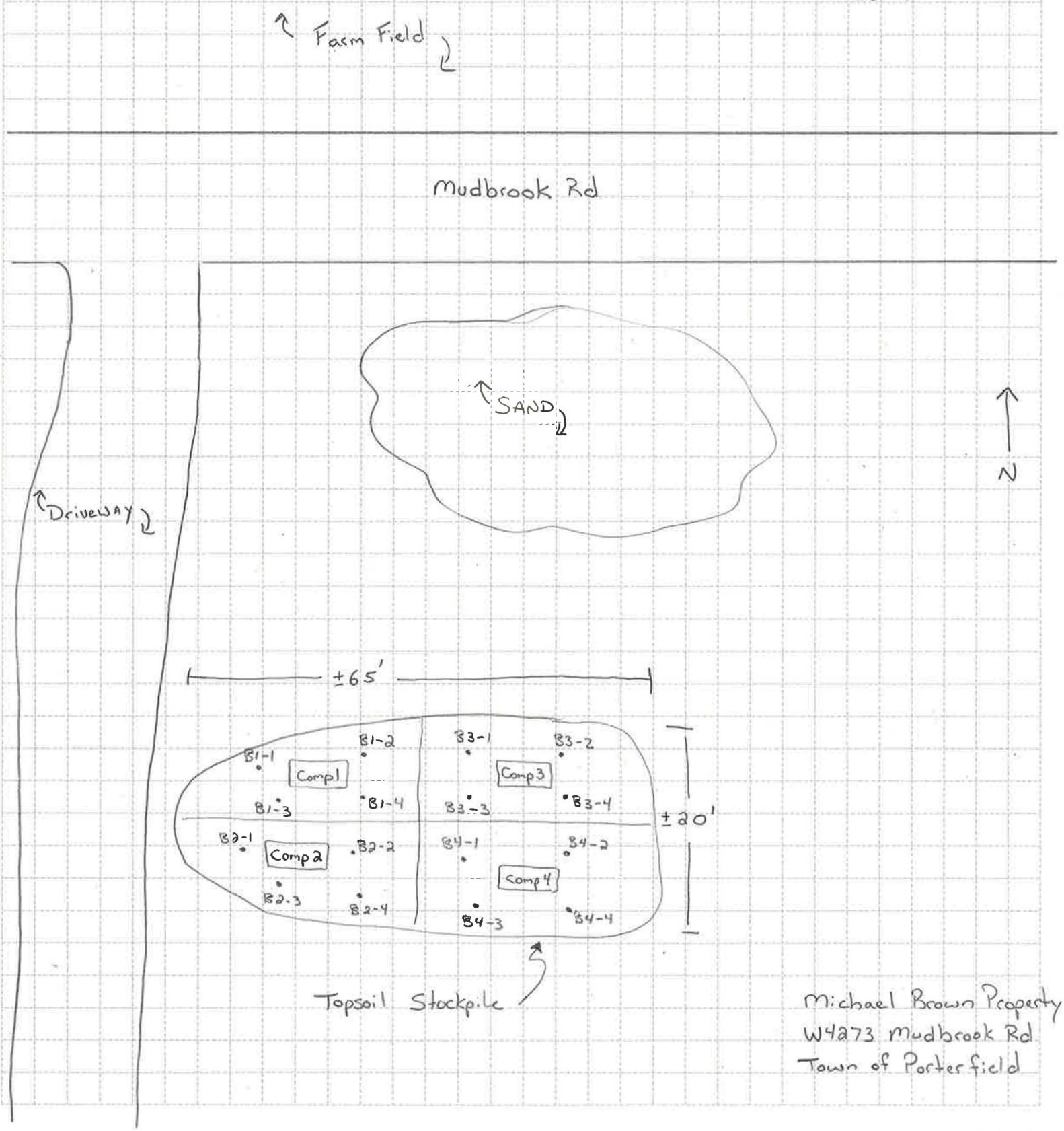
Proj # 193704595
5-23-17



Michael Brown Property
W4273 Mudbrook Rd
Town of Porterfield

* Soil stockpile originated at
Cameron Hayes Property
N1997 Sotka Rd
Town of Peshtigo, WI

Designed by:

Checked by:

Table 2a Soil Sample RCRA Metals and PCB Laboratory Results, W4273 Mudbrook Road Property, Porterfield, Wisconsin

Boring Number	Sample Number	Depth (fbg)	Soil Description	Date Collected	Laboratory Result (mg/kg) RCRA Metals							
					Arsenic (total)	Barium	Cadmium	Chromium	Lead (total)	Mercury	Selenium	Silver
WDNR RCL for Protection from Direct Contact Risk (Non-Industrial)					**8*** [0.613]	15,300	71	NE	400	3.13	391	391
WDNR RCL for Protection of Groundwater					**8*** [0.584]	**364*** [164.8]	**1*** [0.752]	360,000	**52*** [27]	0.208	0.52	0.85
Background Threshold Value (BTV)					8	364	1	44	52	NE	NE	NE
B1-1 to B1-4	Comp1	4	Topsoil	05/23/17	0.921	18.6	<0.08	6.94	7.11	0.0421 J	**0.992 J**	<0.57
B2-1 to B2-4	Comp2	4	Topsoil	05/23/17	1.02 J	22.2	<0.08	7.59	16.8	0.0418 J	<0.52	<0.57
B3-1 to B3-4	Comp3	4	Topsoil	05/23/17	0.757 J	20.6	<0.08	7.17	9.9	0.0431 J	**0.757 J**	<0.57
B4-1 to B4-4	Comp4	4	Topsoil	05/23/17	0.797 J	19.4	<0.08	7.33	8.06	0.0342	**0.783 J**	<0.57

Key:

<x = compound not detected to a detection limit of x
--- = not laboratory analyzed
XX* [XXX] = standard in bold are background threshold values (BTVs) being utilized for the purpose of evaulation under ch. NR700 WAC. The established WAC RCL is noted in brackets.
XXX = exceeds WDNR Non-Industrial RCL for direct contact risk
XXX = exceeds WDNR RCL for protection of groundwater and/or BTV
NE = not established by WAC (Wis. Adm. Code) or WDNR Soil RCL Summary Table
* = The WDNR has determined state-wide soil BTVs (February 2013).
Therefore, reported values less than BTVs are not considered a direct contact or groundwater pathway concern with respect to site releases requiring further remediation action. However, the detection could represent a personal health risk if detected above health based standards.
"J" = analyte detected between the limit of detection and limit of quantification
RCL = residual contaminant level

Notes:

WDNR soil RCL Summary table (March 2017) used to establish RCLs for groundwater protection and direct contact.
For the purpose of this evaluation under ch. NR 700, background threshold values are being considered as representative of background conditions.
However, constituent concentrations less than background threshold values may represent a potential health risk if concentrations are greater than health-based standards.

Table 2b Soil Sample Polynuclear Aromatic Hydrocarbon Laboratory Results, W4273 Mudbrook Road Property, Porterfield, Wisconsin

Boring Number	Sample Number	Depth (fbg)	Soil Description	Date Collected	PAH Compound Laboratory Result (milligram/kilogram)																
					1-Methyl naphthalene	2-Methyl naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthrancene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
WDNR RCL for Protection from Direct Contact Risk (Non-Industrial)					17.6	239	3,590	NE	17,900	1.14	0.115	1.15	NE	11.5	115	0.115	2,390	2,390	1.15	5.52	NE	1,790
WDNR RCL for Protection of Groundwater					NE	NE	NE	NE	196.9492	NE	0.47	0.4793	NE	NE	0.1446	NE	88.8778	14.8299	NE	0.6582	NE	54.5455
B1-1 to B1-4	Comp1	4	Topsoil	05/23/17	<0.0203	<0.0113	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0153	<0.0111	<0.0153
B2-1 to B2-4	Comp2	4	Topsoil	05/23/17	<0.0203	<0.0113	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0153	<0.0111	<0.0153
B3-1 to B3-4	Comp3	4	Topsoil	05/23/17	<0.0203	<0.0113	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0153	<0.0111	<0.0153
B4-1 to B4-4	Comp4	4	Topsoil	05/23/17	<0.0203	<0.0113	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0153	<0.0111	<0.0153

Key:

<x = compound not detected to a detection limit of x
— = not laboratory analyzed
XXX = exceeds WDNR Non-industrial RCL for direct contact risk
XXX = exceeds WDNR RCL for protection of groundwater and/or BTV
"J" = analyte detected between the limit of detection and limit of quantification
RCL = residual contaminant level

Notes: WDNR soil RCL Summary table (March 2017) used to establish RCLs for groundwater protection and direct contact.

Table 2c Soil Sample Volatile Organic Compound Laboratory Results, W4273 Mudbrook Road Property, Porterfield, Wisconsin

Borehole Number	Sample Number	Depth (fbg)	Soil Description	PID Response (iui)	Date Collected	Relavant and Significant Volatile Organic Compound Laboratory Result (milligram/kilogram)																		
						1,1,1-Trichloroethane	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Total Xylenes	Methyl tert-butyl ether (MTBE)	Methylene chloride	n-Butylbenzene	n-Propylbenzene	Naphthalene	p-Isopropyltoluene	sec-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Vinyl Chloride
WDNR RCL for Protection from Direct Contact RCL (Non-Industrial)						640	219	182	1.6	156	8.02	NE	260	63.8	61.8	108	NE	5.52	162	145	33	818	1,560	1.3	0.067
WDNR RCL for Protection of Groundwater						0.1402	1.3821 (combined)		0.0051	0.0412	1.57	NE	3.96	0.027	0.0026	NE	NE	0.6582	NE	NE	0.0045	1.1072	0.0626	0.0036	0.0001
B1-1 to B1-4	Comp1	4	Topsoil	5.0	05/23/17	<0.03	<0.025	<0.032	<0.03	<0.032	<0.035	<0.034	<0.116	<0.05	<0.15	<0.04	<0.033	<0.094	<0.029	<0.033	<0.032	<0.032	<0.028	<0.041	<0.019
B2-1 to B2-4	Comp2	4	Topsoil	4.2	05/23/17	<0.03	<0.025	<0.032	<0.03	<0.032	<0.035	<0.034	<0.116	<0.05	<0.15	<0.04	<0.033	<0.094	<0.029	<0.033	<0.032	<0.032	<0.028	<0.041	<0.019
B3-1 to B3-4	Comp2	4	Topsoil	4.1	05/23/17	<0.03	<0.025	<0.032	<0.03	<0.032	<0.035	<0.034	<0.116	<0.05	<0.15	<0.04	<0.033	<0.094	<0.029	<0.033	<0.032	<0.032	<0.028	<0.041	<0.019
B4-1 to B4-4	Comp4	4	Topsoil	5.7	05/23/17	<0.03	<0.025	<0.032	<0.03	<0.032	<0.035	<0.034	<0.116	<0.05	<0.15	<0.04	<0.033	<0.094	<0.029	<0.033	<0.032	<0.032	<0.028	<0.041	<0.019

Key:

WDNR soil RCL Summary table (March 2017) used to establish RCLs for groundwater protection and direct contact.

<x = compound not detected to a detection limit of x
- = not analyzed
XXX = exceeds WDNR RCL for direct contact risk (Non-Industrial)
XXX = exceeds WDNR RCL for protection of groundwater
mg/kg = milligrams per kilogram
NE = not established by Wisconsin Administrative Code (Wis. Adm. Code) or WDNR Soil RCL Summary Table
* = laboratory report states that detected methylene chloride is suspected laboratory contaminant therefore RCLs do not apply for methylene chloride
** = sample collected below the observed low water table
"J" = analyte detected between limit of detection and limit of quantification
iui = Instruments Units of Isobutylene
RCL = residual contaminant level

Synergy Environmental Lab, INC.

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Report Date *01-Jun-17*

Project Name MARINETTE
Project # 193704595

Invoice # E32959

Lab Code 5032959A
Sample ID COMP 1
Sample Matrix Soil
Sample Date 5/23/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	70.6	%			1	5021		5/24/2017	NJC	1
Inorganic										
Metals										
Arsenic, Total	0.921	mg/Kg	0.33	1.09	1	6010B		5/31/2017	CWT	1
Barium, Total	18.6	mg/Kg	0.21	0.7	1	6010B		5/31/2017	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		5/31/2017	CWT	1
Chromium, Total	6.94	mg/Kg	0.08	0.26	1	6010B		5/31/2017	CWT	1
Lead, Total	7.11	mg/Kg	0.17	0.58	1	6010B		5/31/2017	CWT	1
Mercury, Total	0.0421 "J"	mg/kg	0.019	0.064	1	7471		5/26/2017	CWT	1
Selenium, Total	0.992 "J"	mg/Kg	0.52	1.73	1	6010B		5/31/2017	CWT	1
Silver, Total	< 0.57	mg/Kg	0.57	1.89	1	6010B		5/31/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/31/2017	5/31/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	5/31/2017	5/31/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/31/2017	5/31/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	5/31/2017	5/31/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	5/31/2017	5/31/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/31/2017	5/31/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	5/31/2017	5/31/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	5/31/2017	5/31/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	5/31/2017	5/31/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	5/31/2017	5/31/2017	NJC	1

Project Name MARINETTE **Invoice #** E32959
Project # 193704595

Lab Code 5032959A
Sample ID COMP 1
Sample Matrix Soil
Sample Date 5/23/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	5/31/2017	5/31/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	5/31/2017	5/31/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	5/31/2017	5/31/2017	NJC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/30/2017	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		5/30/2017	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		5/30/2017	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		5/30/2017	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		5/30/2017	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		5/30/2017	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		5/30/2017	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		5/30/2017	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		5/30/2017	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		5/30/2017	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		5/30/2017	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		5/30/2017	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		5/30/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		5/30/2017	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/30/2017	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/30/2017	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/30/2017	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		5/30/2017	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		5/30/2017	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		5/30/2017	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		5/30/2017	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		5/30/2017	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		5/30/2017	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/30/2017	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		5/30/2017	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/30/2017	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		5/30/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		5/30/2017	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/30/2017	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		5/30/2017	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/30/2017	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		5/30/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		5/30/2017	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		5/30/2017	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		5/30/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		5/30/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		5/30/2017	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		5/30/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		5/30/2017	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		5/30/2017	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/30/2017	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		5/30/2017	CJR	1

Project Name MARINETTE **Invoice #** E32959
Project # 193704595

Lab Code 5032959A
Sample ID COMP 1
Sample Matrix Soil
Sample Date 5/23/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		5/30/2017	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		5/30/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		5/30/2017	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		5/30/2017	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		5/30/2017	CJR	1
SUR - Toluene-d8	101	Rec %			1	8260B		5/30/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	107	Rec %			1	8260B		5/30/2017	CJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			1	8260B		5/30/2017	CJR	1
SUR - Dibromofluoromethane	98	Rec %			1	8260B		5/30/2017	CJR	1

Project Name MARINETTE **Invoice #** E32959
Project # 193704595

Lab Code 5032959B
Sample ID COMP 2
Sample Matrix Soil
Sample Date 5/23/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	71.3	%			1	5021		5/24/2017	NJC	1
Inorganic										
Metals										
Arsenic, Total	1.02 "J"	mg/Kg	0.33	1.09	1	6010B		5/31/2017	CWT	1
Barium, Total	22.2	mg/Kg	0.21	0.7	1	6010B		5/31/2017	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		5/31/2017	CWT	1
Chromium, Total	7.59	mg/Kg	0.08	0.26	1	6010B		5/31/2017	CWT	1
Lead, Total	16.8	mg/Kg	0.17	0.58	1	6010B		5/31/2017	CWT	1
Mercury, Total	0.0418 "J"	mg/kg	0.019	0.064	1	7471		5/26/2017	CWT	1
Selenium, Total	< 0.52	mg/Kg	0.52	1.73	1	6010B		5/31/2017	CWT	1
Silver, Total	< 0.57	mg/Kg	0.57	1.89	1	6010B		5/31/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/31/2017	5/31/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	5/31/2017	5/31/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/31/2017	5/31/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	5/31/2017	5/31/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	5/31/2017	5/31/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/31/2017	5/31/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	5/31/2017	5/31/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	5/31/2017	5/31/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	5/31/2017	5/31/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	5/31/2017	5/31/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	5/31/2017	5/31/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	5/31/2017	5/31/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	5/31/2017	5/31/2017	NJC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/30/2017	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		5/30/2017	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		5/30/2017	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		5/30/2017	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		5/30/2017	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		5/30/2017	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		5/30/2017	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		5/30/2017	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		5/30/2017	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		5/30/2017	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		5/30/2017	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		5/30/2017	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		5/30/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		5/30/2017	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/30/2017	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/30/2017	CJR	1

Project Name MARINETTE **Invoice #** E32959
Project # 193704595

Lab Code 5032959B
Sample ID COMP 2
Sample Matrix Soil
Sample Date 5/23/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/30/2017	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		5/30/2017	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		5/30/2017	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		5/30/2017	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		5/30/2017	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		5/30/2017	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		5/30/2017	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/30/2017	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		5/30/2017	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/30/2017	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		5/30/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		5/30/2017	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/30/2017	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		5/30/2017	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/30/2017	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		5/30/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		5/30/2017	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		5/30/2017	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		5/30/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		5/30/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		5/30/2017	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		5/30/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		5/30/2017	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		5/30/2017	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/30/2017	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		5/30/2017	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		5/30/2017	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		5/30/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		5/30/2017	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		5/30/2017	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		5/30/2017	CJR	1
SUR - Dibromofluoromethane	96	Rec %			1	8260B		5/30/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	99	Rec %			1	8260B		5/30/2017	CJR	1
SUR - 4-Bromofluorobenzene	102	Rec %			1	8260B		5/30/2017	CJR	1
SUR - Toluene-d8	99	Rec %			1	8260B		5/30/2017	CJR	1

Project Name MARINETTE **Invoice #** E32959
Project # 193704595

Lab Code 5032959C
Sample ID COMP 3
Sample Matrix Soil
Sample Date 5/23/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	70.0	%			1	5021		5/24/2017	NJC	1
Inorganic										
Metals										
Arsenic, Total	0.757 "J"	mg/Kg	0.33	1.09	1	6010B		5/31/2017	CWT	1
Barium, Total	20.6	mg/Kg	0.21	0.7	1	6010B		5/31/2017	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		5/31/2017	CWT	1
Chromium, Total	7.17	mg/Kg	0.08	0.26	1	6010B		5/31/2017	CWT	1
Lead, Total	9.90	mg/Kg	0.17	0.58	1	6010B		5/31/2017	CWT	1
Mercury, Total	0.0431 "J"	mg/kg	0.019	0.064	1	7471		5/26/2017	CWT	1
Selenium, Total	0.757 "J"	mg/Kg	0.52	1.73	1	6010B		5/31/2017	CWT	1
Silver, Total	< 0.57	mg/Kg	0.57	1.89	1	6010B		5/31/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/31/2017	5/31/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	5/31/2017	5/31/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/31/2017	5/31/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	5/31/2017	5/31/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	5/31/2017	5/31/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/31/2017	5/31/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	5/31/2017	5/31/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	5/31/2017	5/31/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	5/31/2017	5/31/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	5/31/2017	5/31/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	5/31/2017	5/31/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	5/31/2017	5/31/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	5/31/2017	5/31/2017	NJC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/30/2017	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		5/30/2017	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		5/30/2017	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		5/30/2017	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		5/30/2017	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		5/30/2017	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		5/30/2017	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		5/30/2017	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		5/30/2017	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		5/30/2017	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		5/30/2017	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		5/30/2017	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		5/30/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		5/30/2017	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/30/2017	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/30/2017	CJR	1

Project Name MARINETTE **Invoice #** E32959
Project # 193704595

Lab Code 5032959C
Sample ID COMP 3
Sample Matrix Soil
Sample Date 5/23/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/30/2017	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		5/30/2017	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		5/30/2017	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		5/30/2017	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		5/30/2017	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		5/30/2017	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		5/30/2017	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/30/2017	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		5/30/2017	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/30/2017	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		5/30/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		5/30/2017	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/30/2017	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		5/30/2017	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/30/2017	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		5/30/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		5/30/2017	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		5/30/2017	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		5/30/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		5/30/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		5/30/2017	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		5/30/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		5/30/2017	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		5/30/2017	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/30/2017	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		5/30/2017	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		5/30/2017	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		5/30/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		5/30/2017	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		5/30/2017	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		5/30/2017	CJR	1
SUR - Toluene-d8	101	Rec %			1	8260B		5/30/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B		5/30/2017	CJR	1
SUR - 4-Bromofluorobenzene	103	Rec %			1	8260B		5/30/2017	CJR	1
SUR - Dibromofluoromethane	101	Rec %			1	8260B		5/30/2017	CJR	1

Project Name MARINETTE **Invoice #** E32959
Project # 193704595

Lab Code 5032959D
Sample ID COMP 4
Sample Matrix Soil
Sample Date 5/23/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	75.3	%			1	5021		5/24/2017	NJC	1
Inorganic										
Metals										
Arsenic, Total	0.797 "J"	mg/Kg	0.33	1.09	1	6010B		5/31/2017	CWT	1
Barium, Total	19.4	mg/Kg	0.21	0.7	1	6010B		5/31/2017	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		5/31/2017	CWT	1
Chromium, Total	7.33	mg/Kg	0.08	0.26	1	6010B		5/31/2017	CWT	1
Lead, Total	8.06	mg/Kg	0.17	0.58	1	6010B		5/31/2017	CWT	1
Mercury, Total	0.0342	mg/kg	0.019	0.064	1	7471		5/26/2017	CWT	1
Selenium, Total	0.783 "J"	mg/Kg	0.52	1.73	1	6010B		5/31/2017	CWT	1
Silver, Total	< 0.57	mg/Kg	0.57	1.89	1	6010B		5/31/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/31/2017	5/31/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	5/31/2017	5/31/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	5/31/2017	5/31/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/31/2017	5/31/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	5/31/2017	5/31/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	5/31/2017	5/31/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/31/2017	5/31/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	5/31/2017	5/31/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	5/31/2017	5/31/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	5/31/2017	5/31/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	5/31/2017	5/31/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	5/31/2017	5/31/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	5/31/2017	5/31/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	5/31/2017	5/31/2017	NJC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/30/2017	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		5/30/2017	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		5/30/2017	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		5/30/2017	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		5/30/2017	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		5/30/2017	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		5/30/2017	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		5/30/2017	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		5/30/2017	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		5/30/2017	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		5/30/2017	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		5/30/2017	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		5/30/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		5/30/2017	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/30/2017	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/30/2017	CJR	1

Project Name MARINETTE **Invoice #** E32959
Project # 193704595

Lab Code 5032959D
Sample ID COMP 4
Sample Matrix Soil
Sample Date 5/23/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/30/2017	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		5/30/2017	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		5/30/2017	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		5/30/2017	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		5/30/2017	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		5/30/2017	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		5/30/2017	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/30/2017	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		5/30/2017	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/30/2017	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		5/30/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		5/30/2017	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/30/2017	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/30/2017	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		5/30/2017	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/30/2017	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		5/30/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		5/30/2017	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		5/30/2017	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		5/30/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		5/30/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		5/30/2017	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		5/30/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		5/30/2017	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		5/30/2017	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/30/2017	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		5/30/2017	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		5/30/2017	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		5/30/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/30/2017	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		5/30/2017	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		5/30/2017	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		5/30/2017	CJR	1
SUR - Toluene-d8	103	Rec %			1	8260B		5/30/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	106	Rec %			1	8260B		5/30/2017	CJR	1
SUR - 4-Bromofluorobenzene	108	Rec %			1	8260B		5/30/2017	CJR	1
SUR - Dibromofluoromethane	97	Rec %			1	8260B		5/30/2017	CJR	1

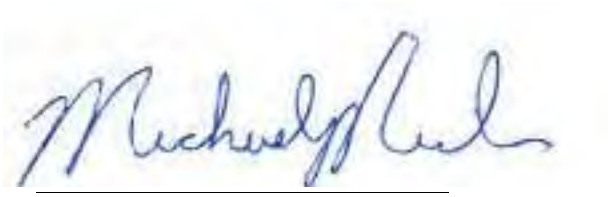
"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Stantec

North Environmental
Hydrologists • Engineers • Surveyors • Scientists

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

Page 1 of 1
No: 2,253

Check office originating request
1165 Scheuring Rd
DePere, WI 54115

☐ 954 Circle Drive, Green Bay, WI 54304, 920-592-8400, FAX 920-592-8444
☐ 330 South 4th Avenue, Park Falls, WI 54552, 715-762-1544, Fax 715-762-1844
☐ 85 Revere Drive, Suite H, Northbrook, IL 60062, 847-562-8577, FAX 847-562-8552
☐ 3349 Southgate Court SW #102, Cedar Rapids, IA 52404, 319-365-0466, FAX 319-365-0464
☐ _____
☐ 210 South Highway 141, Suite D, Crivitz, WI 54114, 715-854-3360, FAX 715-854-3361
☐ 12075 Corporate Pkwy, Suite 210, Mequon, WI 53092, 262-241-3133, FAX 262-241-8222
☐ 1203 Storbeck Drive, Waupun, WI 53963, 920-324-8600, FAX 920-324-3023
☐ 815 Sheldon Avenue, Houghton, MI 49931, 906-483-2100, FAX 906-483-2104
☐ 1213 Center St., Suite A, Lansing, MI 48906, 517-702-0470, FAX 517-702-0477
☐ 315 Sanborn Avenue, Suite 200, Ashland, WI 54806, 715-682-1116, Fax 715-682-1118

Project No: 193704595 Task No: 300
Project Location: (city) Marinette
Project Manager: Lynelle Cajune
Sampler: (name) Jeff Brand
Sampler: (Signature) Jeff Brand
Sampling Date(s): 5-23-17
Reports to be Sent to: Jeff.brand@stantec.com

Laboratory: Synergy
Wisconsin DNR Certification #: 445037560
Laboratory Contact: Mike Rickers
Price Quote:

TURNAROUND TIME REQUIRED
☒ Normal ☐ Rush
Date Needed _____

Sample Integrity - To be completed by receiving lab
Seal intact upon receipt ☒ yes ☐ no
Method of shipment Onto SEL
Contents Temperature Onto °C Refrigerator No. _____

ANALYSES REQUESTED

Lab ID No.	Sample No.	Collection Date	Collection Time	No. of Containers, Size & Type	Description Water	Description Soil	Description Other	Preservative	DRO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)	VOC	PAH	RCRA Metals
502591	Comp 1	5/23/17	1020	1-4oz 1-40ml 1-P cup		X		methanol								X	X	X
B	Comp 2	↓	1039	↓		X		↓								X	X	X
C	Comp 3		1100			X										X	X	X
D	Comp 4		1118			X										X	X	X

Packed for Shipping by: Jeff Brand
Shipment Date:

Comments:

Relinquished By:	Date: 5-24-17	Relinquished By:	Date:	Relinquished By:	Date:
Company: Stantec	Time: 7:15 AM	Company:	Time:	Company:	Time:
Received By:	Date: 5-24-17	Received By:	Date:	Received By:	Date:
Company: SEL	Time: 7:15 AM	Company:	Time:	Company:	Time:

Chapa, Lisa

From: Caine, Lynelle
Sent: Tuesday, April 17, 2018 2:48 PM
To: Chapa, Lisa
Subject: FW: Approval of Sampling Plan for Imported Fill at MCABI VPLE Site (Second Source), 1310-1330 Main Street, Marinette, WI

From: Klauk, Robert H - DNR [mailto:Robert.Klauk@wisconsin.gov]
Sent: Tuesday, October 18, 2016 9:15 AM
To: Brand, Jeff <Jeff.Brand@stantec.com>
Subject: RE: Sampling Plan for Imported Topsoil at MCABI VPLE Site (Second Source), 1310-1330 Main Street, Marinette, WI

Jeff,

You may use this soil as fill on the MCABI site.

Bob

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Robert Klauk
Phone: 920-662-5164
Robert.Klauk@wisconsin.gov

From: Brand, Jeff [mailto:Jeff.Brand@stantec.com]
Sent: Monday, October 17, 2016 2:50 PM
To: Klauk, Robert H - DNR
Cc: Caine, Lynelle
Subject: FW: Sampling Plan for Imported Topsoil at MCABI VPLE Site (Second Source), 1310-1330 Main Street, Marinette, WI

Bob – Attached please find the results of the soil samples collected from the second source of fill material (Cameron Hayes Property, N1997 Sotka Road in the Town of Peshtigo, WI) to be used as part of redevelopment efforts at the Tyco Redevelopment Site (aka Maritime Center of Excellence) at 1310-1330 Main Street, Marinette, WI (the Site). The fill material was sampled for VOCs, PAHs, and RCRA metals according to the sampling plan approved on October 12, 2016. No VOCs or PAHs were detected in any of the samples collected. Selenium was detected in one sample collected above the RCL for protection of groundwater. The sample was "J" flagged as the analyte was detected between the laboratory limit of detection and limit of quantification. No other RCRA metals were detected above proposed RCLs in any of the samples. Therefore, we are requesting WDNR approval to import the fill onto the site for redevelopment use and that no additional sampling be required from the property. Laboratory analytical results are summarized on the attached tables and laboratory analytical reports are attached.

As indicated in our sampling plan, the source of this fill material is from rural undeveloped land and it is anticipated that 10,000 cubic yards of material will be imported from this site. Based on the review of available background information, no potential sources of contamination were identified at this site or on the immediately surrounding properties likely to impact the site. Therefore, it does not appear that further sampling of the soil originating at this site is

needed. As a precautionary approach, fill material will be observed as it is imported onto the MCABI property and if any unusual odors or staining are observed in the soil, further importing of the material will be temporary placed on hold until further sampling is completed. Please feel free to contact us with any questions. Thanks,

Jeffrey R Brand
Engineer in Training
Stantec
1165 Scheuring Road De Pere WI 54115-1001
Phone: (920) 278-3208
Cell: (920) 883-8501
Fax: (920) 592-8444
Jeff.Brand@Stantec.com

From: Klauk, Robert H - DNR [mailto:Robert.Klauk@wisconsin.gov]
Sent: Wednesday, October 12, 2016 2:09 PM
To: Brand, Jeff <Jeff.Brand@stantec.com>
Subject: RE: Sampling Plan for Imported Topsoil at MCABI VPLE Site (Second Source), 1310-1330 Main Street, Marinette, WI

Jeff,

The sampling plan for the current 800 cubic yards of soil stockpiled is approved.

Bob

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Robert Klauk
Phone: 920-662-5164
Robert.Klauk@wisconsin.gov

From: Brand, Jeff [mailto:Jeff.Brand@stantec.com]
Sent: Wednesday, October 12, 2016 12:03 PM
To: Klauk, Robert H - DNR
Cc: Caine, Lynelle; 'ahartnell@mcabi.com'
Subject: Sampling Plan for Imported Topsoil at MCABI VPLE Site (Second Source), 1310-1330 Main Street, Marinette, WI

Hi Bob,

Per our conversation, we are submitting a sampling plan on behalf of MCABI to sample imported fill (primarily sand) to be used as part of the redevelopment efforts at the Tyco Redevelopment Site (aka Maritime Center of Excellence) at 1310-1330 Main Street, Marinette, WI. It is our understanding that 33,000 cubic yards of fill need to be imported onto the Site in order to cap the impacted soil and achieve the final site grade. Since the

Site is enrolled in the VPLE program, approval from the WDNR is needed prior to importing the fill onto the Site. The general contractor, Moyle Construction, has currently identified three potential sources for the sand fill material. This sampling plan is for one of the three sources and is located at N1997 Sotka Road in the Town of Peshtigo, WI owned by Cameron Hayes.

Stantec personnel visited the site of fill source on October 10, 2016. The property is located in the Town of Peshtigo in a rural area that was most recently wooded. The property owner is currently in the process of excavating a pond on the property and a portion of the sand is already stockpiled on-site. A review of aerial photos indicates that the property has been wooded for over 18 years. A residence sits immediately to the south with wooded land surrounding the pond. From a larger regional view, a farm is located to the east with primarily forested land with interspersed residential properties surrounding the property. A review of the WDNR BRRTS online records indicates that the nearest BRRTS case is approximately 2.25 miles from the source property. It is our understanding that approximately 8,000 – 10,000 cubic yards of material would imported onto the Site from this property pending WDNR approval. Photos of the stockpiled sand are attached. Maps showing the parcel location and nearest BRRTS sites are also attached. The aerial photos were viewed from the Marinette County GIS web site and Google Earth copies which are attached.

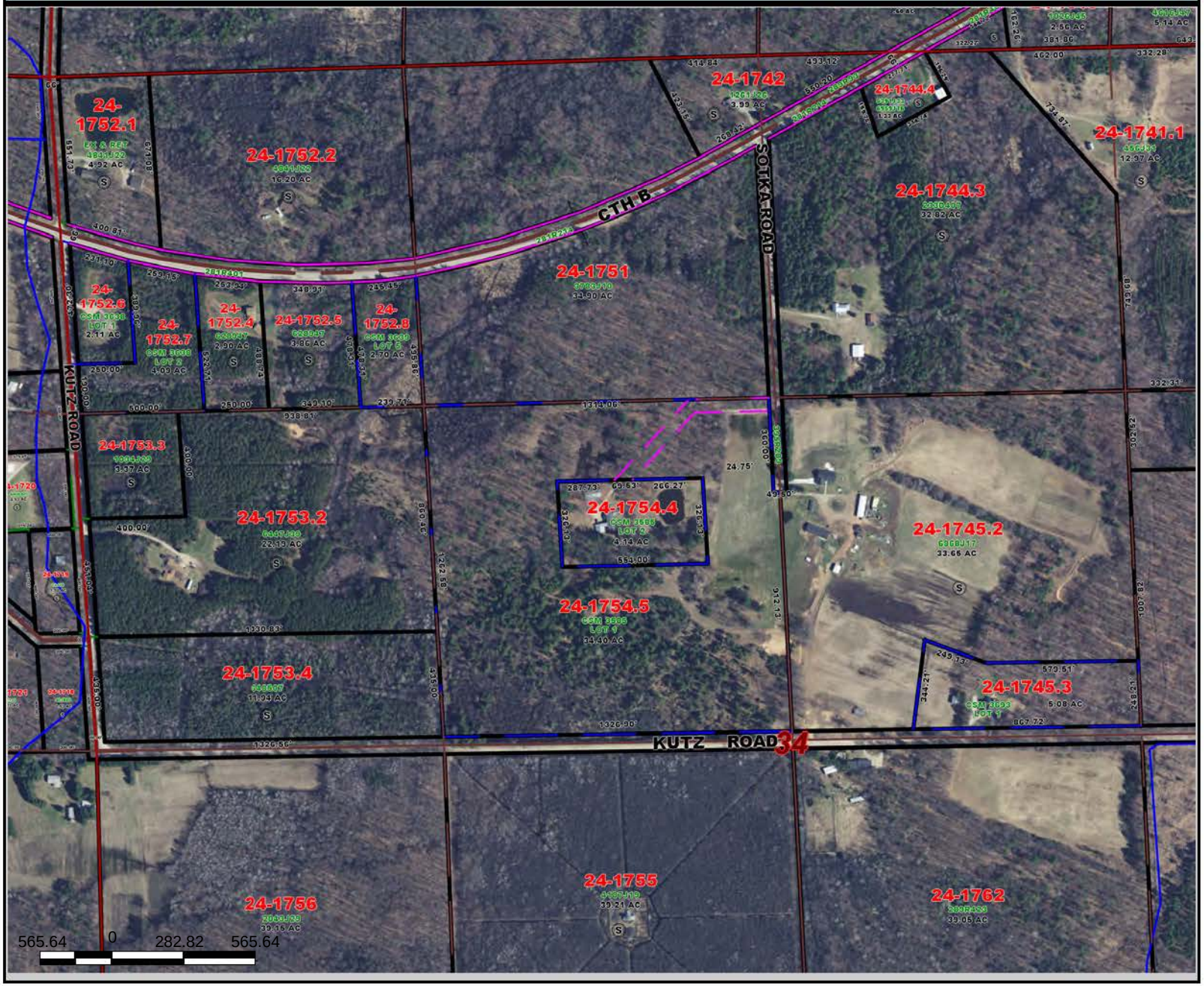
Sampling Plan:

Given that the source of the fill material is from a rural area that has historically been undeveloped, it is very unlikely that the fill material from this source has been impacted. Therefore, we are requesting a reduction in the number of samples to be submitted for laboratory analysis as indicated in the WDNR guidance on soil characterization per NR 718.09 (8)(b). During our site visit, approximately 800 cubic yards of material was already stockpiled on-site. stockpiled material on-site appeared to be homogenous and is anticipated to be a good representation of all the material to be excavated from the Site. Therefore, to characterize the fill material from the Site, Stantec is proposing to collect up to 4 samples from the stockpiled soil. The pile will be divided into four quadrants with a composite sample collected from each quadrant. The four composite samples would be submitted for analysis for PAHs and RCRA metals. Two samples will be submitted for VOCs from the two composite samples exhibiting the highest PID readings. The stockpile sampling will be summarized in a brief letter report or email and submitted to the WDNR.

Based on the results of previous sampling, we believe this sampling plan should adequately evaluate the imported fill to be used on the MCOE property. Please let us know if you agree with the sampling plan or have any questions or concerns. The sampling will be completed as soon as WDNR approval of this plan is obtained. Thanks,

Jeffrey R Brand
Engineer in Training
Stantec
1165 Scheuring Road De Pere WI 54115-1001
Phone: (920) 278-3208
Cell: (920) 883-8501
Fax: (920) 592-8444
Jeff.Brand@Stantec.com

Marinette County GIS Map



Notice/Disclaimer: The land records site is intended to be a general guide to property and land information, and does not represent a survey of real property nor should be used or referenced to for conveyance of real property, guaranteeing title thereto or making official determinations of building development, permitting or other activity. Contact the appropriate County Department to obtain original source documents or for official determinations. This information has been developed from various sources and although efforts have been made to ensure accuracy and reliability; erros, omissions and varaible conditions originating from compilation and sources used to develop the information may be reflected herein. In addition, land information is constantly changing and the most current or accurate data might not be represented. The information accessible through this site is represented "as is" without warranty of any kind, either expressed or implied, or statutory, including, but not limited to, the implied warranties or merchantability and fitness for a particular purpose. No guarantee of accuracy, completeness or currentness is granted nor is any responsiblity for reliance thereon assumed. The user assumes the entire risk as to the quality, use and reliability of the entire information. Marinette County does not accept any liability for damages or misrepresentation of any kind caused by inaccuracies in the information and in no event shall Marinette County, its elected or appointed officials or employees be liable for direct, indirect, incidental, consequential or special damages of any kind.

the real north
MARINETTE COUNTY, WI

Table 2 Soil Sample RCRA Metals Laboratory Results, Hayes Property, N1997 Sotka Road, Marinette, Wisconsin

Boring Number	Sample Number	Depth (fbg)	Soil Description	Estimated Depth to Groundwater (fbg)	Date Collected	Laboratory Result (milligrams/kilogram) RCRA Metals							
						Arsenic (total)	Barium	Cadmium	Chromium	Lead (total)	Mercury	Selenium	Silver
WDNR Proposed RCL for Protection from Direct Contact Risk (Non-Industrial)						**8*** [0.613]	15,300	70	NE	400	3.13	391	391
WDNR Proposed RCL for Protection of Groundwater						**8*** [0.584]	**364*** [164.8]	**1*** [0.752]	360,000	**52*** [27]	0.208	0.52	0.85
Background Threshold Value (BTV)						8	364	1	44	52	NE	NE	NE
B100/B400	SB2-Comp1	0-5	Fine Sand	---	10/11/16	<0.67	7.98	0.12 J	6.71	1.87	<0.0131	<0.55	<0.44
B500/B800	SB2-Comp2	0-5	Fine Sand	---	10/11/16	<0.67	10.9	<0.08	8.18	1.34	<0.0131	<0.55	<0.44
B900/B1200	SB2-Comp3	0-5	Fine Sand	---	10/11/16	<0.67	7.30	<0.08	6.15	1.19	<0.0131	**0.76 J**	<0.44
B1300/B1600	SB2-Comp4	0-5	Fine Sand	---	10/11/16	<0.67	6.15	<0.08	4.61	1.03	<0.0131	<0.55	<0.44

Key:

<x = compound not detected to a detection limit of x
--- = not laboratory analyzed
XX* [XXX] = standard in bold are background threshold values (BTVs) being utilized for the purpose of evaulation under ch. NR700 WAC. The established WAC RCL is noted in brackets.
XXX = exceeds WDNR Non-Industrial RCL for direct contact risk
XXX = exceeds WDNR RCL for protection of groundwater and/or BTV
NE = not established by WAC (Wis. Adm. Code) or WDNR Soil RCL Summary Table
* = The WDNR has determined state-wide soil BTVs (February 2013).
Therefore, reported values less than BTVs are not considered a direct contact or groundwater pathway concern with respect to site releases requiring further remediation action. However, the detection could represent a personal health risk if detected above health based standards.
** = sample collected below the observed low water table
"J" = analyte detected between the limit of detection and limit of quantification
iui = instrument units as isobutylene
PID = photoionization detector
RCL = residual contaminant level

Notes:

WDNR soil RCL Summary table (June 2016) used to establish RCLs for groundwater protection and direct contact.
For the purpose of this evaluation under ch. NR 700, background threshold values are being considered as representative of background conditions.
However, constituent concentrations less than background threshold values may represent a potential health risk if concentrations are greater than health-based standards.

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

LYNELLE CAINE
STANTEC
1165 SCHEURING ROAD
DE PERE WI 54115

Report Date *17-Oct-16*

Project Name MARINETTE **Invoice #** E31877
Project # 193704595

Lab Code 5031877A
Sample ID S2-COMP 1
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.0	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	7.98	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	0.12 "J"	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	6.71	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	1.87	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/14/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/14/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/14/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/14/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/14/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/14/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/14/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/14/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/14/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/14/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/14/2016	MJR	1

Project Name MARINETTE **Invoice #** E31877
Project # 193704595

Lab Code 5031877A
Sample ID S2-COMP 1
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/13/2016	CJR	1
SUR - Dibromofluoromethane	109	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Toluene-d8	99	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	102	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	120	Rec %			1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31877
Project # 193704595

Lab Code 5031877B
Sample ID S2-COMP 2
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.3	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	10.9	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	8.18	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	1.34	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/14/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/14/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/14/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/14/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/14/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/14/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/14/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/14/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/14/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/14/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/14/2016	MJR	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		10/13/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		10/13/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		10/13/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		10/13/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		10/13/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		10/13/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		10/13/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		10/13/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		10/13/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		10/13/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		10/13/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		10/13/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		10/13/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		10/13/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		10/13/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31877
Project # 193704595

Lab Code 5031877B
Sample ID S2-COMP 2
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		10/13/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		10/13/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		10/13/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		10/13/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		10/13/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		10/13/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		10/13/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		10/13/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		10/13/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		10/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		10/13/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		10/13/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		10/13/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		10/13/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		10/13/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		10/13/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		10/13/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		10/13/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		10/13/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		10/13/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		10/13/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		10/13/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		10/13/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		10/13/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		10/13/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		10/13/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		10/13/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		10/13/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	101	Rec %			1	8260B		10/13/2016	CJR	1
SUR - 4-Bromofluorobenzene	102	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Dibromofluoromethane	102	Rec %			1	8260B		10/13/2016	CJR	1
SUR - Toluene-d8	100	Rec %			1	8260B		10/13/2016	CJR	1

Project Name MARINETTE **Invoice #** E31877
Project # 193704595

Lab Code 5031877C
Sample ID S2-COMP 3
Sample Matrix Soil
Sample Date 10/11/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.5	%			1	5021		10/12/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	7.30	mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	6.15	mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	1.19	mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total	< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total	0.76 "J"	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/14/2016	MJR	1
Acenaphthylene	< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/14/2016	MJR	1
Anthracene	< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(k)fluoranthene	< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/14/2016	MJR	1
Chrysene	< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/14/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluoranthene	< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluorene	< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/14/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/14/2016	MJR	1
1-Methyl naphthalene	< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/14/2016	MJR	1
2-Methyl naphthalene	< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/14/2016	MJR	1
Naphthalene	< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/14/2016	MJR	1
Phenanthrene	< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/14/2016	MJR	1
Pyrene	< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/14/2016	MJR	1

Project Name MARINETTE **Invoice #** E31877
Project # 193704595

Lab Code 5031877D
Sample ID S2-COMP 4
Sample Matrix Soil
Sample Date 10/11/2016

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent	83.8		%			1	5021		10/12/2016	NJC	1
Inorganic											
Metals											
Arsenic, Total		< 0.67	mg/Kg	0.67	2.22	1	6010B		10/14/2016	CWT	1
Barium, Total	6.15		mg/Kg	0.19	0.63	1	6010B		10/14/2016	CWT	1
Cadmium, Total		< 0.08	mg/Kg	0.08	0.25	1	6010B		10/14/2016	CWT	1
Chromium, Total	4.61		mg/Kg	0.16	0.51	1	6010B		10/14/2016	CWT	1
Lead, Total	1.03		mg/Kg	0.26	0.86	1	6010B		10/14/2016	CWT	1
Mercury, Total		< 0.0131	mg/kg	0.0131	0.0435	1	7471		10/13/2016	CWT	1
Selenium, Total		< 0.55	mg/Kg	0.55	1.81	1	6010B		10/14/2016	CWT	1
Silver, Total		< 0.44	mg/Kg	0.44	1.38	1	6010B		10/14/2016	CWT	1
Organic											
PAH SIM											
Acenaphthene		< 0.0135	mg/kg	0.0135	0.043	1	M8270C	10/12/2016	10/14/2016	MJR	1
Acenaphthylene		< 0.012	mg/kg	0.012	0.0381	1	M8270C	10/12/2016	10/14/2016	MJR	1
Anthracene		< 0.0124	mg/kg	0.0124	0.0395	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)anthracene		< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(a)pyrene		< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(b)fluoranthene		< 0.013	mg/kg	0.013	0.0414	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(g,h,i)perylene		< 0.0114	mg/kg	0.0114	0.0363	1	M8270C	10/12/2016	10/14/2016	MJR	1
Benzo(k)fluoranthene		< 0.0117	mg/kg	0.0117	0.0371	1	M8270C	10/12/2016	10/14/2016	MJR	1
Chrysene		< 0.0138	mg/kg	0.0138	0.0439	1	M8270C	10/12/2016	10/14/2016	MJR	1
Dibenzo(a,h)anthracene		< 0.0142	mg/kg	0.0142	0.0453	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluoranthene		< 0.0131	mg/kg	0.0131	0.0418	1	M8270C	10/12/2016	10/14/2016	MJR	1
Fluorene		< 0.0135	mg/kg	0.0135	0.0431	1	M8270C	10/12/2016	10/14/2016	MJR	1
Indeno(1,2,3-cd)pyrene		< 0.015	mg/kg	0.015	0.0476	1	M8270C	10/12/2016	10/14/2016	MJR	1
1-Methyl naphthalene		< 0.0143	mg/kg	0.0143	0.0456	1	M8270C	10/12/2016	10/14/2016	MJR	1
2-Methyl naphthalene		< 0.0119	mg/kg	0.0119	0.038	1	M8270C	10/12/2016	10/14/2016	MJR	1
Naphthalene		< 0.0122	mg/kg	0.0122	0.0387	1	M8270C	10/12/2016	10/14/2016	MJR	1
Phenanthrene		< 0.0109	mg/kg	0.0109	0.0347	1	M8270C	10/12/2016	10/14/2016	MJR	1
Pyrene		< 0.0126	mg/kg	0.0126	0.0401	1	M8270C	10/12/2016	10/14/2016	MJR	1

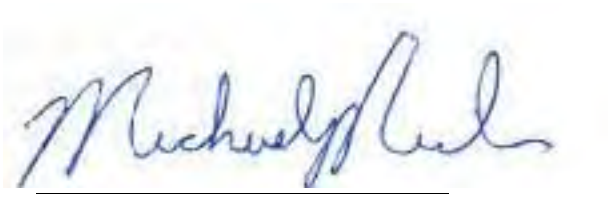
"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Stantec

North Environmental
Hydrologists • Engineers • Surveyors • Scientists

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

Page 1 of 1
No: 27036

Check office originating request
1145 Schering Rd
DePere, WI 54115

☐ 954 Circle Drive, Green Bay, WI 54304, 920-592-8400, FAX 920-592-8444
☐ 330 South 4th Avenue, Park Falls, WI 54552, 715-762-1544, Fax 715-762-1844
☐ 85 Revere Drive, Suite H, Northbrook, IL 60062, 847-562-8577, FAX 847-562-8552
☐ 3349 Southgate Court SW #102, Cedar Rapids, IA 52404, 319-365-0466, FAX 319-365-0464
☐ _____
☐ 210 South Highway 141, Suite D, Crivitz, WI 54114, 715-854-3360, FAX 715-854-3361
☐ 12075 Corporate Pkwy, Suite 210, Mequon, WI 53092, 262-241-3133, FAX 262-241-8222
☐ 1203 Storbeck Drive, Waupun, WI 53963, 920-324-8600, FAX 920-324-3023
☐ 815 Sheldon Avenue, Houghton, MI 49931, 906-483-2100, FAX 906-483-2104
☐ 1213 Center St., Suite A, Lansing, MI 48906, 517-702-0470, FAX 517-702-0477
☐ 315 Sanborn Avenue, Suite 200, Ashland, WI 54806, 715-682-1116, Fax 715-682-1118

Project No: 193704595 Task No:
Project Location: (city) Marinette
Project Manager: Lynelle Caine
Sampler: (name) Jeff Brandl
Sampler: (Signature)
Sampling Date(s): 10-11-16
Reports to be Sent to: Jeff.brandl@stantec.com

Laboratory: Synergy
Wisconsin DNR Certification #: 445037560
Laboratory Contact: Mike Rickus
Price Quote:

TURNAROUND TIME REQUIRED
☐ Normal ☒ Rush
Date Needed 10-17-16

Sample Integrity - To be completed by receiving lab
Seal intact upon receipt ☒ yes ☐ no
Method of shipment SEL
Contents Temperature 3°C Ice °C Refrigerator No.

ANALYSES REQUESTED

Lab ID No.	Sample No.	Collection Date	Collection Time	No. of Containers, Size & Type	Description: Water	Description: Soil	Description: Other	Preservative	DRO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method	Pb (EPA Method	VOC	PAH	RCRA metals
203877 A	S2-Comp1	10-11-16	1520	1-4oz, 1-2oz, 4o-		X		methanol								X	X	X
B	S2-Comp2	↓	1516	↓		X		↓								X	X	X
C	S2-Comp3	↓	1523	1-4oz, 1-2oz		X		ICE								[redacted]	X	X
D	S2-Comp4	↓	1518	↓		X		ICE								[redacted]	X	X

Packed for Shipping by: Jeff Brandl
Shipment Date: 10-11-16

Comments:
3 Day turn - Analysis back by 10-17-16
RUSH

Relinquished By:	Date: 10-11-16	Relinquished By:	Date:	Relinquished By:	Date:
Company: Stantec	Time: 7:15 AM	Company:	Time:	Company:	Time:
Received By:	Date: 10-12-16	Received By:	Date:	Received By:	Date:
Company: SEL	Time: 7:15 AM	Company:	Time:	Company:	Time:

ATTACHMENT F

Well Abandonment Forms

State of Wis., Dept. of Natural Resources
dnr.wi.gov

MW1500

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to: ☐ Drinking Water ☐ Waste Management ☐ Watershed/Wastewater ☐ Other: ☒ Remediation/Redevelopment

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marinette		

Lattitude / Longitude (Degrees and Minutes): 45 ° 05 . 42 'N / 87 ° 37 . 15 'W — Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range	
SE	SE	6	30 N	24	☒ E ☐ W

or Gov't Lot #

Well Street Address: 1310-1330 Main Street

Well City, Village or Town: Marinette — Well ZIP Code: 54143

Subdivision Name — Lot #

Reason For Removal From Service: End of Sampling — WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: MCABI-Tyco Redevelopment Site

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner: MCABI

Present Well Owner: MCABI

Mailing Address of Present Owner: 1926 Hall Avenue

City of Present Owner: Marinette — State: WI — ZIP Code: 54143

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/07/15

If a Well Construction Report is available, please attach.

Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14.19'	2"
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
6"	14.19

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? — Depth to Water (feet): 6.69

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☒ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☒ Other (Explain): Gravity

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☒ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Soil	Surface	0.5 ft	0.011 ft³	
Bentonite	0.5 ft	14.19 ft	0.299 ft³	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Evan Weber / Stantec		10/10/2016

Street or Route: 1165 Scheuring Road — Telephone Number: (920) 592-8400

City: De Pere — State: WI — ZIP Code: 54115 — Signature of Person Doing Work: Evan J. Weber — Date Signed: 10/11/16

DNR Use Only

Date Received | Noted By | Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

MW1600

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to: ☐ Drinking Water ☐ Watersched/Wastewater ☒ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marinette	_ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) | Method Code (see instructions)

45 ° 05 . 42 'N
87 ° 37 . 15 'W

¼ / ¼	¼	Section	Township	Range	
SE	SE	6	30 N	24	☒ E ☐ W

or Gov't Lot #

Well Street Address: 1310-1330 Main Street

Well City, Village or Town: Marinette | Well ZIP Code: 54143

Subdivision Name | Lot #

Reason For Removal From Service: End of Sampling | WI Unique Well # of Replacement Well: _ _ _ _ _

2. Facility / Owner Information

Facility Name: MCABI-Tyco Redevelopment Site

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner: MCABI

Present Well Owner: MCABI

Mailing Address of Present Owner: 1926 Hall Avenue

City of Present Owner: Marinette | State: WI | ZIP Code: 54143

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/07/15

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14.27	2"
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
6"	14.27

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? | Depth to Water (feet): 5.72

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☒ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☒ Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Soil	Surface	0.5 ft	0.011 ft³	
Bentonite	0.5 ft	14.27 ft	0.300 ft³	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Evan Weber / Stantec		10/10/2016

Street or Route: 1165 Scheuring Road | Telephone Number: (920) 592-8400

City: De Pere | State: WI | ZIP Code: 54115 | Signature of Person Doing Work: Evan J. Weber | Date Signed: 10/11/16

DNR Use Only

Date Received	Noted By
Comments	

State of Wis., Dept. of Natural Resources
dnr.wi.gov

MW1700

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to: ☐ Drinking Water ☐ Waste Management ☐ Watershed/Wastewater ☐ Other: ☒ Remediation/Redevelopment

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marinette		

Latitude / Longitude (Degrees and Minutes) 45 ° 05 . 42 'N; 87 ° 37 . 15 'W

Method Code (see instructions):

¼ ¼	¼	Section	Township	Range	
SE	SE	6	30 N	24	☒ E ☐ W

or Gov't Lot #:

Well Street Address: 1310-1330 Main Street

Well City, Village or Town: Marinette

Well ZIP Code: 54143

Subdivision Name:

Lot #:

Reason For Removal From Service: End of Sampling

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: MCABI-Tyco Redevelopment Site

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: MCABI

Present Well Owner: MCABI

Mailing Address of Present Owner: 1926 Hall Avenue

City of Present Owner: Marinette | State: WI | ZIP Code: 54143

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/07/15

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14.13	2"
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
6"	14.13

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?

Depth to Water (feet): 3.32

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☒ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☒ Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Soil	Surface	0.5ft	0.011 ft³	
Bentonite	0.5ft	14.13 ft	0.297 ft³	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Evan Weber / Stantec		10/10/2016

Street or Route: 1165 Scheuring Road

Telephone Number: (920) 592-8400

City: De Pere | State: WI | ZIP Code: 54115

Signature of Person Doing Work: Evan J. Weber

Date Signed: 10/11/16

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

MW1900

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to: ☐ Drinking Water ☐ Waste Management ☐ Watershed/Wastewater ☐ Other: ☒ Remediation/Redevelopment

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marinette		

Lattitude / Longitude (Degrees and Minutes): 45 ° 05 . 42 'N, 87 ° 37 . 15 'W — Method Code (see instructions):

¼ ¼	¼	Section	Township	Range	
SE	SE	6	30 N	24	☒ E ☐ W

or Gov't Lot #:

Well Street Address: 1310-1330 Main Street

Well City, Village or Town: Marinette — Well ZIP Code: 54143

Subdivision Name: — Lot #:

Reason For Removal From Service: End of Sampling — WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: MCABI-Tyco Redevelopment Site

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: MCABI

Present Well Owner: MCABI

Mailing Address of Present Owner: 1926 Hall Avenue

City of Present Owner: Marinette — State: WI — ZIP Code: 54143

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/07/15

If a Well Construction Report is available, please attach.

Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
13.20	2"
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
6"	13.20

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? — Depth to Water (feet): 3.09

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☒ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☒ Other (Explain): Gravity

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Soil	Surface	0.5 ft	0.011 ft^3	
Bentonite	0.5 ft	ft	0.277 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Evan Weber / Stantec		10/10/16

Street or Route: 1165 Scheuring Road — Telephone Number: (920) 592-8400

City: De Pere — State: WI — ZIP Code: 54115

Signature of Person Doing Work: Evan J. Weber — Date Signed: 10/11/16

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

MW2000

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marinette	_ _ _ _ _ _ _	

Latitude / Longitude (see instructions): 45° 05.42 N / 87° 37.15 W
Format Code: ☐ DD ☒ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SE	6	30 N	24 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 1310-1330 Main Street

Well City, Village or Town	Well ZIP Code
Marinette	54143

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
End of sampling	_ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: MCABI - Tyco Redevelopment Site
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: MCABI
Present Well Owner: MCABI
Mailing Address of Present Owner: 1926 Hall Avenue

City of Present Owner	State	ZIP Code
Marinette	WI	54143

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/07/15

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14.57'	2"

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
6"	14.57

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	11.11

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☒ Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite	Surface	14.57 ft	0.318 ft³	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Evan Weber / Stantec		10/13/16

Street or Route	Telephone Number
1165 Shewing Road	(920) 592-8400

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
De Pere	WI	54115	Evan J. Weber	10/14/16

DNR Use Only

Date Received	Noted By

Comments:

ATTACHMENT G

Photographs Showing Remedial Action Activities

Photo 1 – Topsoil and vegetation stripping; looking north

Photo 2 – Vegetation removal northwest corner of the Site; looking northwest

Photo 3 - test pit revealing solid waste; northwest portion of the Site

Photo 4 – Site stripped and regraded for building foundation; looking west

Photo 5 – Pond location stripped of Vegetation; looking west

Photo 6 – Installation of geopiers; looking west

Photo 7 – Clean fill being deposited onsite over filter fabric; looking west

Photo 8 – Clean fill cap over filter fabric with MW1800; looking southwest

Photo 9 – Building construction; looking northwest

Photo 10 – Retention pond construction/excavation; looking northwest

Photo 11 - Excavated retention pond; looking northwest

Photo 12 – Retaining wall along Stanton Street; looking northesast

Photo 13 - Retention wall along Ludington Street; looking northwest

Photo 14 – Site building with clean fill; looking southwest along Stanton Street

Photo 15 - Placement of topsoil; looking southeast along Main Street

Photo 16 – Placement of topsoil; looking northwest along Ludington Street

Photo 17 - Placement of gravel subgrade in parking lot; looking southeast

Photo 18 – Placement of gravel subgrade in parking lot; looking southwest

Photo 19 - Asphalt parking lot; looking southwest

Photo 20 – Asphalt parking lot; looking southeast

Photo 21 - Placement of retention pond liner; looking northwest

Photo 22 – Final clean soil cap over retention pond; looking northwest

Photo 23 - Retention pond inlets; looking northeast

Photo 24 – Final retention pond; looking northwest

Photo 25 - Final site building and parking lot; looking southwest

Photo 26 – Final site building and parking lot; looking southeast along Main Street

Photo 27 - Final site building and parking lot; looking northeast

Photo 28 – Final site building and parking lot; looking south

Photo 29 - Final retaining wall and landscaping; looking northwest along Ludington Street

Photo 30 – Final retaining wall and landscaping; looking southeast along Ludington Street

Photo 31 - Final site building; looking northwest along Main Street

Photo 32 – Final site building; looking northeast across Main Street