

April 11, 2018

Mr. Brian Cass  
EnviroForensics, LLC  
W229 N2494 County Highway F  
Waukesha, WI 53186

Subject: Temporary Injection Exemption Request for Former One-Hour Martinizing  
36929 Plank Rd., Oconomowoc, WI  
BRRTS # 02-68-551911  
FID # 268087380

Dear Mr. Cass:

The purpose of this letter is to provide a temporary exemption for the injection of a remedial material into the soils and groundwater. On March 8, 2018, the Wisconsin Department of Natural Resources (WDNR) received a request for a temporary exemption for the enhanced reductive dechlorination (ERD) of a combined product of 3-D Macroemulsion® (electron donor emulsion), Chemical reducing solution® (CRS) - an iron-based reagent, and Bio-Dechlor Inoculum Plus® (BDJ) - a microbial consortium containing species of Dehalococcoides at the Former One-Hour Martinizing, 36929 Plank Rd., Oconomowoc, WI. The request was submitted by EnviroForensics, LLC the project's environmental consultant, on behalf of the Former One-Hour Martinizing 36929 Plank Rd., Oconomowoc, WI.

The submittal included a \$700 review fee for Technical Assistance. EnviroForensics, LLC also made a request for a Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit for contaminated groundwater for remedial action operations at the site. A WDNR injection approval and a WPDES permit are required prior to the injection of remedial materials into the subsurface. This temporary exemption provides assurance to the City of Oconomowoc that the proposed injection of ERD and combined products to be injected in the soils and groundwater proposed for the environmental cleanup conforms to s. 292.12, Wis. Stats. The WDNR approved the additional remedial method report for this site on March 9, 2018.

EnviroForensics, LLC has proposed a developed injection design that is based on the

groundwater volatile organic compounds (VOCs) and the hydrogeological properties of the site aquifer. 3-D Macroemulsion and CRS will be mixed in one solution and they will inject approximately 610 gallons into each of the 40 injection points. Next, BDI will be mixed in a separate solution and 15 gallons will be injected in each of the 40 injections points. The injection points are shown in Figure 1 of this submittal. All products will be mixed with potable water to the desired solution concentration. A total volume of 25,000 gallons solution will be injected. It therefore means that 625 gallons solution will be injected at each injection point. Solution mixing will be done in large trailer-mounted tanks that will be agitated continuously. The solution will be pumped from the tanks through a manifold to the injection points via a hose. Pressure and flow rate will be monitored and recorded to make sure that the design parameters are met. Injection will be done using direct-push rods that have retractable screen injection tools.

Determination on the NR 812 Wis. Adm. Code Injection Prohibitions:

The injection prohibition under s. NR 812.05, Wis. Adm. Code, is not applicable in this case because the proposed action is a WDNR-approved activity necessary for the remediation of soils and groundwater. This letter serves as your approval from the WDNR for the ERD injection and combined products at the Former One-Hour Martinizing, 36929 Plank Rd., Oconomowoc, WI.

NR 140 Wis. Adm. Code Temporary Exemptions:

The WDNR approval is hereby granted to EnviroForensics, LLC for the ERD injection and combined products at the Former One-Hour Martinizing, 36929 Plank Rd., Oconomowoc, WI., with certain terms and conditions. The expiration date of this temporary exemption must be less than 2-years, per NR 140.28(5)(e) (1). from the date of this letter.

The need to obtain a temporary exemption for the injection of a remedial material for which a groundwater quality standard has not been established is required under s. NR 140.28 (1) (d), Wis. Adm. Code. Based on the information provided by your consultant, it appears the requirements for a temporary exemption for the injection of a remedial material for which a groundwater quality has not been established under s. NR 140.28 (I) (d) have been or will be met in accordance with s. NR 140.28 (5) (c) and (d), Wis. Adm. Code.

Department approval is granted with the following terms and conditions:

A. General:

1. The remedial action for restoring contaminated groundwater or soil, and any infiltrated or injected contaminated water and remedial materials, shall achieve the applicable response objectives required by s. NR 140.24 (2) or s. NR 140.26 (2), Wis. Adm. Code, within reasonable period.
  2. The type, concentration and volume of substances or remedial material to be infiltrated or injected shall be minimized to the extent that is necessary for restoration of contaminated groundwater.
  3. Any infiltration or injection of contaminated water or remedial material into the groundwater shall not significantly increase the threat to public health, or welfare, or to the environment.
  4. No uncontaminated or contaminated groundwater, substance or remedial material shall be infiltrated or injected into an area where a floating non-aqueous liquid is present in the contaminated groundwater.
  5. There shall be no expansion of soil or groundwater contamination, or migration of an infiltrated or injected contaminated water or remedial material, beyond the edge of previously contaminated areas, except that infiltration or injection into previously uncontaminated areas may be allowed if the Department determines that expansion into adjacent, previously uncontaminated areas is necessary for the restoration of the contaminated groundwater, and the requirements of s. NR 140.18 (1), Wis. Adm. Code will be met.
  6. All necessary federal, state and local licenses, permits and other approvals are obtained and compliance with all applicable environmental protection requirements is required. A WPDES general permit for Discharge of Contaminated Groundwater from remedial action operation is required for this action.
- B. Specific:
7. The remedial materials to be injected to the soils and groundwater shall be limited to the treatment of CVOCs.
  8. The remedial material and injection project shall be as described in EnviroForensics, LLC's request.
  9. EnviroForensics, LLC will notify the Southeast Region WDNR Project Manager, David Volkert of field activities, no less than one (1) week before starting the injection.
  10. Include soil vapor screening, using a PID, as a best management practice as part of the monitoring plan.
  11. Remediation progress reports shall be submitted semi-annually, and shall include the groundwater monitoring results. The first report should be submitted not more than three months after the first injection. Recommendations as to the next phase

of sampling and/or the need for additional treatment shall be included in a future report. This report shall be submitted prior to the expiration date of this temporary approval.

12. Any significant changes to the injection process, based on information from the injection groundwater monitoring reports or results, shall be submitted to the WDNR for approval prior to the changes being implemented to the injection and treatment of CVOCs in the groundwater and soils at the Former One-Hour Martinizing, 36929 Plank Rd. Oconomowoc, WI. This includes, but is not limited to adjustments to the volume/mass of the media injected.
13. Modifications to the sampling schedule may be requested.
14. The responsible party may apply to the WDNR for an extension of this approval in the event that future injection/delivery activities are required, and the WDNR must receive any extension request before the expiration date of this approval.
15. The WDNR will review all permit extension requests, site-specific data and or any other necessary information.
16. Upon completion of the project, the placement monitoring wells must be abandoned in accordance with s. NR 141.25, Wis. Adm. Code, and later topped off with grout or native soils if settling occurs, unless converted to NR 141 complying monitoring wells, or through an alternative approved by the WDNR Project Manager.

#### Monitoring Conditions:

In addition to your plan, it is your responsibility to meet all the following approval conditions during your proposed injection procedures at this site. The conditions are:

1. Maintain and follow the Site-Specific Health and Safety Plan in accordance with the Occupation Safety and Health Administration (OSHA) and the United States Environmental Protection Agency (USEPA) health and safety standards for hazardous waste workers.
2. If a chlorinated water source (i.e. municipal water) is used as the make-up water, it shall be filtered through an activated carbon filter or method proposed in your report to remove chlorine.
3. Record the start and stop times and the actual volume of the enhanced treatment of CVOCs injected into each injection or delivered to each placement monitoring well.
4. Monitor the ambient air in and around the work area during the proposed enhanced treatment of CVOCs injection process using in-situ blending methods.
5. Monitor the headspace of all injection points prior to the proposed treatment of CVOCs, using in-situ blending methods.

6. Monitor the headspace of all groundwater monitoring wells prior to each groundwater monitoring event.
7. Conduct vapor monitoring at the closest proposed monitoring locations, including a measurement of percent (%) LEL every 15 minutes during the first hour of each infiltration event.
8. Immediately notify the WDNR if any new groundwater quality enforcement standards are exceeded during monitoring.
9. Notify digger's hotline and all owners of utility lines if your project requires notification. Also, notify the local fire department prior to injection activities, and ensure that any representatives of these entities be allowed to observe the injection activities as needed. After completing the injection, sample all monitoring wells for applicable parameters quarterly.
10. Ensure that the injection is performed at less than 100 psi or at a reasonable psi which minimizes solution mounding in the aquifer, and plume disfigurement.
11. Maintain a log of all field monitoring results and injection/delivering activities.
12. Document and report all project activities and all test results to the WDNR within 60 days of completing the injection activities.

Failure to adhere to the provisions of this temporary exemption may result in WDNR requiring revisions to the remedial action design, operation or monitoring procedures, or the revocation of this exemption and the implementation of an alternative remedial action to restore soil or groundwater quality, or both.

#### WPDES Permit:

Your proposed discharge is eligible for coverage under the general Wisconsin Pollutant Discharge Elimination System (WPDES) permit WI-0046566-06 for Discharge of Contaminated Groundwater from Remedial Action Operations. You are responsible for compliance with the conditions contained in this permit. The permit and an accompanying facts sheet can be downloaded from the WDNR website at <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html>. The amended water will be injected into the groundwater. No pollutants shall be injected into the groundwater.

Discharges under this permit are required to be consistent with a discharge management plan that has been approved by the WDNR. Your plan, EnviroForensics, LLC's March 02, 2018 request will be considered as the required discharge management plan, which specifies analytical sampling of the discharge for CVOCs treatment will be provided by injection/delivering of the proposed in-situ enhanced reductive dechlorination using in-situ blending methods to soil and groundwater. The facility must immediately notify the

WDNR if any treated groundwater will be discharged to surface water. Any significant system changes will require WDNR approval.

The WDNR hereby authorizes your pollutant discharge under the general WPDES permit for Discharge of Contaminated Groundwater from Remedial Action Operations (WI-0046566-06) that was granted on March 16, 2018. The following conditions are highlighted for your information:

Section 283.35, Wisconsin Statutes, authorizes the WDNR to issue general permits for discharges from categories or classes of point sources. If a permittee believes coverage of a facility under a general WPDES permit is not appropriate, the permittee may apply for issuance of an individual WPDES permit pursuant to section 283.35 (2) and may petition the WDNR for withdrawal of coverage under the general permit. The individual permit application should indicate which site-specific factors would justify alternate WPDES limits for the operation, issuance of such a site specific WPDES permit will provide for a 30-day public comment period, and potentially a public informational hearing and/or an adjudicatory hearing. The WDNR may withdraw a facility from coverage under a general permit if it is determined that a discharge is a significant contributor of pollutants to waters of Wisconsin, or in certain other cases set out in s. 283.35, Stats. In lieu of general permit withdrawal, the WDNR may refer any violation of this permit to the Department of Justice for enforcement under s. 283.89, Stats. In order to avoid any enforcement action, please read the WPDES permit carefully and comply with the permit requirements.

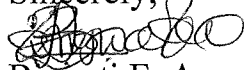
If you believe you have a right to challenge the WDNR's decision to cover this facility with a WPDES general permit, you should know that Wisconsin statutes and administrative rules establish time periods within which requests to review WDNR decisions must be filed. To request a contested case hearing pursuant to section 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the WDNR, to serve a petition for hearing on the Secretary of the Department of Natural Resources. Such a petition should identify pollutant(s) that are believed to be not appropriately regulated by the general permit for the specific site. All requests for contested case hearings must be made in accordance with section NR 2.05 (5), Wis. Adm. Code, and served on the Secretary in accordance with section 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 time for filing a petition for judicial review.

For judicial review of a decision pursuant to sections 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the WDNR, to file your

petition with the appropriate circuit court and serve the petition on the WDNR. A petition for judicial review must name the Department of Natural Resources as the respondent.

If you have any questions regarding this letter, please contact me either at 414-263-8607 or e-mail: [Binyoti.Amungwafor@Wisconsin.gov](mailto:Binyoti.Amungwafor@Wisconsin.gov).

Sincerely,



Binyoti F. Amungwafor

Hydrogeologist

Remediation & Redevelopment Program

Cc: Mr. Brain Kappen, EnviroForensics, LLC

Mr. David Volkert- RR/SER

Mr. Karl Knutson, Wastewater Specialist/WI-DNR SER General Wastewater  
Permits

Mr. Brian Austin, WDNR DG/5

Mr. Bill Phelps, WDNR DG/5

Case File # 268087380