



December 8, 2023

Mr. Ferdinand Alido
Navistar, Inc.
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Subject: Infiltration/Injection Temporary Exemption Request for Navistar/RMG
Facility Foundry,
1401 Perkins Avenue, Waukesha, WI 53186
FIN #: 71016 BRRTS #: 02-68-098404
WPDES Permit Site ID: 71016

Dear Mr. Alido:

The purpose of this letter is to approve a temporary exemption for the injection of a remedial material into groundwater at the site identified above in accordance with Wisconsin Administrative (Wis. Admin) Code § 140.28(5). The Wisconsin Department of Natural Resources (DNR) received a request for a temporary exemption to inject Sodium Persulfate ($\text{Na}_2\text{S}_2\text{O}_8$) into groundwater on September 19, 2023, for the from your consultant, KRPG and Associates, Inc., (KRPG) The DNR also received a complete electronic Notice of Intent (eNOI) and Discharge Management Plan for the *Contaminated Groundwater from Remedial Action Operations* Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit No. WI-0046566-07-0 on December 5th, 2023. A review fee of \$700 was also received on September 19, 2023. This temporary exemption approval is intended to provide assurances to KRPG that the environmental cleanup being conducted in response to a discharge of hazardous substances on the site is being conducted in accordance with Wisconsin Statutes (Wis. Stat.) § 292.12.

On April 1, 2021, the DNR conditionally approved the *Remedial Action Options and Design Report* (Report), dated March 3, 2021. The Report included the selected Remedial Action Option of injecting $\text{Na}_2\text{S}_2\text{O}_8$. One of the conditions of approval was that “a DNR injection approval and a WPDES permit are required prior to the injection of remedial materials into the subsurface.”

KRPG proposes to inject for the second time, $\text{Na}_2\text{S}_2\text{O}_8$ to treat on-site groundwater contaminated with trichloroethene (TCE) to depths within the bedrock. The injection will be performed in previous installed injection wells (IWs). The IWs will be placed at a grid measuring 20 to 40 feet. Thirteen (13) of the IWs will be installed at depths of 40 feet and three (3) installed at 60 feet. The treatment interval of all the injection wells is estimated between a vertical depth of 20-60 feet. The expected operational pressure for the IWs is estimated at 20-60 pounds per square inch (PSI) and not to exceed 100 PSI so as not to create secondary permeability. Klozur® is the injectate and is manufactured by Peroxychem. Klozur® is an $\text{Na}_2\text{S}_2\text{O}_8$ product mixed with water. It is activated upon addition of ferrous iron, sodium hydroxide, lime, or hydrogen peroxide. The persulfate reacts to produce monosulfate that breaks down to sulfate ions.

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KRPG will inject about 550 gallons of 18% catalyzed $\text{Na}_2\text{S}_2\text{O}_8$ into the 40 feet deep injection wells, and 1000 gallons of 18% $\text{Na}_2\text{S}_2\text{O}_8$ into the 60 feet deep IWs. The total volume of material to be injected is estimated at 10,150 gallons.

Quarterly groundwater monitoring will be performed at 24 monitoring wells as specified under the submitted Remedial Action Plan request to the DNR received March 1, 2023. Field logging activities will be done in conjunction with the injection event.

DETERMINATION ON THE NR 812 INJECTION PROHIBITION

The proposed injection for remedial activity is approved by the DNR and is therefore not prohibited under Wis. Admin. Code § NR 812.05.

NR 140 TEMPORARY EXEMPTION

DNR approval is granted to KRPG for a temporary exemption in accordance with Wis. Admin. Code §140.28(5) for the injection of Klozur® to the groundwater at the Navistar/RMG Foundry, property, with terms and conditions. Based on the information provided; it appears the requirements for a temporary exemption for the injection of a remedial material for which a groundwater quality standard has not been established under Wis. Admin. Code § NR. 140.28(1)(d) have been or will be met, in accordance with Wis. Admin. Code § NR 140.28(5)(c) and (d).

The expiration date of the temporary exemption must be less than 2 years, per Wis. Admin. Code § NR 140.28(5)(e)1. from the date of this letter. DNR approval is granted with the following terms and conditions:

A. Prerequisites for the DNR Granting a Temporary Exemption. Wis. Admin. Code § NR 140.28(5)(c):

1. The remedial action for restoring contaminated soil or groundwater, and any infiltrated or injected contaminated water and remedial materials, shall achieve the applicable response objectives required by Wis. Admin. Code § NR 140.24(2) or § NR 140.26(2) within a 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 the contaminated soil or groundwater and be approved by the DNR prior to use.
3. Any infiltration or injection of contaminated water or remedial material into soil or 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 soil or groundwater.
5. There will be no expansion of soil or groundwater contamination, or migration of any 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 DNR determines that expansion into adjacent, previously uncontaminated areas is necessary for the restoration of the contaminated soil or groundwater, and the requirements of Wis. Admin. Code § NR 140.18(1) 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. Permit No.

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WI-0046566-07-0 is required for this action.

B. Specific Requirements. Wis. Admin. Code § NR 140.28(6)(b) and (c):

1. The remedial materials to be injected to the groundwater shall be limited to an electron donor (carbon source) and a dechlorinating microbial culture.
2. The remedial material and injection project shall be as described in Infiltration/Injection Request of this site, dated August 14, 2023.
3. KPRG shall notify the DNR of field activities no less than one (1) week before implementation.
4. In the monitoring plan, include screening for soil vapor as a best management practice.
5. Remediation progress reports shall be submitted with the semi-annual progress reports. The progress reports shall include the groundwater monitoring results. The first report should be submitted not more than 90 days 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 as soon as the necessary information is available and must be submitted prior to the expiration date of this temporary approval.
6. Any significant changes based on information from the injection groundwater monitoring reports or results shall be submitted to the DNR for approval prior to the changes being implemented at the site. This includes, but is not limited to, adjustments to the volume/mass of the media injected, additional injection points, number of injection events and/or changes in the type of remediation media used in the injection points. Modifications to the sampling schedule may be requested.
7. In the event of future injection activities, the responsible party may apply for an extension of this approval. A request for an extension of this approval must be received by the DNR before the expiration date of the temporary exemption.
8. Any extension approvals will be dependent on DNR review of site-specific data or any other information it deems necessary.
9. Upon completion of the project, the injection holes must be abandoned in accordance with Wis. Admin. Code § NR 141.25 and later topped off with grout or native soils if settling occurs, unless converted to Wis. Admin. Code ch. NR 141 complying monitoring wells, or an alternative approved by the DNR project manager.
10. Monitoring Conditions:
 - a. The actual volume injected must be recorded on an hourly basis for each day of the project.
 - b. Groundwater monitoring must be performed after the injection event for the following parameters, at the following monitoring wells quarterly:
 - i. VOCs, methane, ethane/ethene, total organic carbon, dissolved iron and manganese, sulfate, dissolved oxygen, and oxygen reduction potential
 - ii. at monitoring wells: NMW-1, NMW-3R, NMW-7, NMW-8R, NMW-9, MW-9D, MW-9D2, MW-11, MW-13, MW-15, MW-23, MW-24, MW-24D, MW-25, MW-26, MW-30, MW-31, MW-36, MW-37, MW-38, MW-39, MW-43, MW-44, MW-55 and MW-56.
 - iii. The following monitoring wells must be sampled within one month of completing the injection event: NMW-9, MW-11, MW-13, MW-15, MW-36, MW-39, and MW-56
 - c. A site-specific Health and Safety Plan shall be followed.
The injection shall be performed at less than 100 pounds per square inch (psi) at a rate which

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prohibits solution mounding in the aquifer and plume disfigurement.

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

WPDES PERMIT APPROVAL

The DNR determined that the proposed injection/infiltration discharge to groundwater from the Navistar/RMG Foundry, 1401 Perkins Avenue, Waukesha, WI 53186, is eligible for coverage and is hereby authorized under the *Contaminated Groundwater from Remedial Action Operations* WPDES General Permit No. WI-0046566-07-0. This determination was based on review of a complete eNOI, and discharge management plan submitted by Josh Davenport of KPRG

Consultants-and received on December 5th, 2023. Download the permit and fact sheet from the DNR General Permits web page at dnr.wisconsin.gov/topic/Wastewater/GeneralPermits.html.

The DNR is also approving the discharge management plan that was submitted with the eNOI in accordance with the *Contaminated Groundwater from Remedial Action Operations* WPDES General Permit No. WI-0046566-07-0. The discharge management plan satisfies the requirements in Section 3 of the general permit.

The proposed injection/infiltration discharge to groundwater is eligible for coverage and is hereby authorized under the *Contaminated Groundwater from Remedial Action Operations* WPDES General Permit No. WI-0046566-07-0 in accordance with Wis. Admin. Code § NR 205.08, subject to the following general permit conditions:

1. **Coverage Effective Date:** Coverage at your facility will become effective under this permit upon the date of this letter until permit coverage termination, revocation or reissuance of the general permit. This permit applies only to the discharge activities and site described in the eNOI for the above referenced project.
2. **Discharge Management Plan:** The permittee shall operate consistent with the approved discharge management plan. A copy of the discharge management plan shall be retained by the permittee and this plan shall be made available upon DNR inspection or submitted to the DNR upon request. Permittees shall notify the DNR when the discharge management plan is amended to determine if the amendment requires DNR approval.
3. **Reporting:** The permittee is exempt from monitoring and reporting under this general permit and shall follow the terms and conditions of the remedial action plan approval under Wis. Admin. Code ch. NR 724 and the temporary exemption granted under Wis. Admin. Code § NR 140.28(5).
4. **Coverage Termination:** Once the project is completed, please complete and submit a *Notice of Termination* (Form 3400-221) to the DNR, available at dnr.wi.gov/topic/wastewater/GeneralPermits.html.
5. **Change of Authorized Representative:** If you plan on changing the authorized representative contact for the facility or you want to assign a new person to be a duly authorized representative to submit specific permit documents on your behalf, please complete and submit a *Delegation of Signature Authority* (Form 3400-220)

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to the DNR, available at dnr.wi.gov/topic/wastewater/GeneralPermits.html.

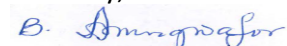
6. **Facility Changes:** If there have been or will be any changes in facility operations that result in new or different wastewater discharges to the waters of the state, please contact the DNR consistent with Section 7.1.6 of the general permit. If reapplication is necessary, please complete a notice of intent (NOI) form for the applicable general permit to verify that your discharge is eligible for that general permit. NOI forms are available at dnr.wi.gov/topic/wastewater/GeneralPermits.html.
7. **Compliance with Permit Conditions:** You are responsible for compliance with the general permit requirements and conditions listed 7above and all other applicable requirements and conditions contained in the general permit. **To assure you remain in compliance and avoid any enforcement action, please carefully read the general permit.**

Wis. Stat. § 283.35(1) authorizes the DNR to issue a general permit applicable to a designated area of the state authorizing discharges from specified categories or classes of point sources located within that area. Upon the request of the owner or operator of a point source, the DNR shall withdraw the point source from the coverage of a general permit and issue an individual WPDES permit for that source in accordance with Wis. Stat. § 283.35(2). Additionally, the DNR may withdraw a point source from the coverage of a general permit and issue an individual WPDES permit if that source meets any of the factors listed in Wis. Stat. § 283.35(3). Issuance of such an individual permit will provide for a public comment period and potentially a public informational hearing and/or an adjudicatory hearing. In lieu of general permit withdrawal, the DNR may refer any violation of a general permit to the Department of Justice for enforcement under Wis. Stat. § 283.91, pursuant to Wis. Stat. § 283.89. To remain in compliance and avoid any enforcement action, please read your permit carefully.

To challenge the reasonableness of or necessity for any term or condition of an issued, reissued or modified general permit, Wis. Stat. § 283.63 and Wis. Admin. Code ch. NR 203 require that you file a verified petition for review with the Secretary of the Department of Natural Resources within 60 days after notice of the permit decision was issued by the DNR. For other permit-related decisions, such as the decision to confer general permit coverage to your facility, that are not reviewable pursuant to Wis. Stat. § 283.63, it may be possible for permittees or other persons to obtain an administrative review pursuant to Wis. Stat. § 227.42 and Wis. Admin. Code § NR 2.05(5) or a judicial review pursuant to Wis. Stat. § 227.52. If you choose to pursue one of these options, you should know that Wisconsin Statutes and Administrative Code establish time periods within which requests to review DNR decisions must be filed.

If you have questions regarding this letter, please contact me a (414)-208-5874 or at Binyoti.Amungwafor@wisconsin.gov.

Sincerely,



Binyoti F. Amungwafor
Hydrogeologist
Southeast Region
Remediation & Redevelopment Program

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