

**DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Self Initiated Inspection**

P088143200

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| FACILITY: Blarney Castle Oil Company | SRN / ID: P0881 |
| LOCATION: 9988 West Front Street, EMPIRE | DISTRICT: Cadillac |
| CITY: EMPIRE | COUNTY: LEELANAU |
| CONTACT: Ray Andras , Consultant | ACTIVITY DATE: 01/11/2018 |
| STAFF: Caryn Owens | SOURCE CLASS: |
| SUBJECT: Self Initiated Inspection to view sampling activities | |
| RESOLVED COMPLAINTS: | |

On Tuesday, January 11, 2018, Ms. Caryn E. Owens of the DEQ-AQD conducted a self-initiated inspection of the Blarney Castle Remediation site located at 9988 West Front Street in Empire, Leelanau County, Michigan (SRN: P0881). More specifically, the site is on the northeast corner of South Leelanau Highway and West Empire Highway (M-72) in Empire, Michigan. The field inspection was conducted, since this was a new General Permit to install (PTI) 170-17 that has been issued, and the company was conducting field sampling. The site is currently an area source for hazardous air pollutants (HAPs) and a minor source of criteria pollutants, specifically volatile organic compounds (VOCs), and not subject to Federal Regulations.

Evaluation Summary

Based on the activities covered during this field inspection, AQD will follow up with the site in the future, when there is analytical data and emission calculations to review.

On-site Inspection:

During the field inspection it was mostly cloudy, overcast skies, and approximately 50°F, with winds approximately 10 to 15 miles per hour from the south. The site consists of an operating gas station, a convenience store, and a pole barn on the eastern portion of the site. AQD met Mr. Doug Hull a consultant with Compliance, Inc. who was collecting laboratory air samples to send to send for analysis. Mr. Hull screened the sampling port initially with a photoionization detector (PID) prior to collecting an air sample in a Tedlar bag. The PID read 235 ppm volatile organic compounds (VOCs). According to Mr. Hull, the remediation system was needed due to a diesel fuel release from an underground storage tank. The underground storage tank was removed along with the contaminated soil, and the air sparge system is removing the impacted groundwater from the release.

The air sparge system was set up in a portable trailer, just west of the pole barn, in a wooden fenced in area. A PVC stack was coming out of the trailer and was connected to the pole barn for support, and extended approximately 30 feet above ground surface. No visible emissions or odors were present during the inspection in the area of the sparge system. Mr. Hull showed AQD how the system operated. The air sparge system consisted of nine sparge lines, and extraction blower, and four flow meters. Only two flow meters were operating when AQD arrived, which is typical for this site, however there are two extra flow meters in case it is necessary to use in the future. There was a power failure to the system, so some of the pressure backed up into the lines, so Mr. Hull was working on getting the system back to equilibrium. No further actions are necessary at this time, with regards to the field inspection. AQD will follow up with the site in the future, when there is analytical data and emission calculations to review.

NAME Caryn Owens DATE 1/11/18 SUPERVISOR SN