

**DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION  
ACTIVITY REPORT: Scheduled Inspection**

P067141747

<b>FACILITY:</b> Blarney Castle - Remediation System		<b>SRN / ID:</b> P0671
<b>LOCATION:</b> 4554 13 Mile Road, MESICK		<b>DISTRICT:</b> Cadillac
<b>CITY:</b> MESICK		<b>COUNTY:</b> WEXFORD
<b>CONTACT:</b>		<b>ACTIVITY DATE:</b> 09/19/2017
<b>STAFF:</b> Caryn Owens	<b>COMPLIANCE STATUS:</b> Compliance	<b>SOURCE CLASS:</b> MINOR
<b>SUBJECT:</b> Scheduled Inspection and Records Review, this file is listed as SRN N5332 in Wexford Co. Records.		
<b>RESOLVED COMPLAINTS:</b>		

On Tuesday, September 19, 2017, Ms. Caryn E. Owens of the DEQ-AQD conducted a scheduled inspection of the Blarney Castle Remediation site located at 4454 and 4554 North 13 Road in Mesick, Wexford County, Michigan (SRN: P0671). This site is more specifically located on the northeast corner of M-115 and M-37 in Mesick, Michigan. The field inspection and records review were conducted to determine compliance with Permit to install (PTI) 161-05. It should be noted that the PTI application has the following associated SRN: N5332, which is for the remediation and has been used at different remediation sites around the State of Michigan. The site is currently a minor source, and not subject to Federal Regulations.

#### **Evaluation Summary**

Based on the activities covered during this field inspection, the facility appears to be in compliance with PTI 161-05. Review of the records for the facility indicates the facility was in compliance with emission limits in accordance with the current PTI. No further actions are necessary at this time. Specific permit conditions that were reviewed are discussed below.

#### **On-site Inspection:**

During the field inspection it was partly cloudy and approximately 65°F, with winds approximately 10 miles per hour from the east. The site consists of propane dealer with one building that contains an office and garage area. Another out building is used for washing trucks and the two other buildings at the site contained a former remediation building, and the current remediation system building. Both remediation buildings were locked during the inspection. At the time of the inspection, the remediation system was not operating. Based on discussions with the DEQ Remediation, Redevelopment Division (RRD) the remediation system has been off since 2007.

A metal vent pipe/stack was coming out of the ground on the eastern portion of the newest remediation system building, extending approximately 20 feet above ground surface (ags). No visible emissions or odors were present during the inspection.

#### **Compliance Evaluation:**

**FG-REMEDATION:** Includes air strippers, soil vapor extraction (SVE ) systems, and air sparging systems; associated equipment and pollution control devices. For sources with total potential VOC or gasoline emissions greater than 10 tons per year and/or total potential BTEX emissions greater than 1 ton per year, a pollution control device shall consist of a dual stage granular activated carbon unit, a thermal oxidizer, and internal combustion engine with dual catalytic converters, or a biofilter in combination with one of the other controls listed in this paragraph.

#### **Emission Limits:**

Based on the most recent analytical results reviewed, which are from May 2007, the emission limits for Total volatile organic compounds (VOCs), Total Gasoline, and BTEX were 0.63 tons of BTEX per year, 0.63 tons of VOCs per year, and 1.35 tons of Total Gasoline per year. The emission in 2007 were below the 10 tons per year of Total VOCs, Total Gasoline and below the 1 ton per year of BTEX.

**Material Limits:** Not applicable for FG-REMEDATION.

#### **Process/Operational Restrictions:**

The site has not operated the remediation system since 2007, however, the remediation system is still located on site in case it is needed to complete further cleanup. Based on the current PTI application, the site used an activated carbon filter as control for the SVE system. As of the date of this report, the site has not been closed by

the DEQ-RRD.

**Design/Equipment Parameters and Testing/Sampling:** Not applicable for FG-REMEDIATION.

**Monitoring/Recordkeeping:**

The site does not contain an air stripper and therefore this condition is not applicable.

As previously stated, this system is not currently operating, and has not operated since May 2007. According to the Status Report submitted to DEQ-RRD in December 2007, the SVE system operated from September 8, 2005 to May 3, 1007 and was effective in remediating the soil at this location.

**Reporting:** Not applicable for FG-REMEDIATION.

**Stack Restrictions**

During the field investigation, the stack appeared to be at least 20 feet above ground surface. No visible emissions or odors were present.

**Other Requirements:**

No modifications or new additional remediation systems are present at the site.

NAME Camp Owens

DATE 9/19/17

SUPERVISOR SN