

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

B552429611

FACILITY: NATIONAL RESEARCH CO		SRN / ID: B5524
LOCATION: 33175 GROESBECK HWY, FRASER		DISTRICT: Southeast Michigan
CITY: FRASER		COUNTY: MACOMB
CONTACT: Bill Fisher, President & CEO		ACTIVITY DATE: 04/20/2015
STAFF: Joyce Zhu	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Annual inspection		
RESOLVED COMPLAINTS:		

On 4/20/15, I conducted an annual inspection at National Research Co. The facility is located on 55911 Gratiot, Chesterfield. The inspection is to verify compliance of the operation according to Air Quality Regulations and their Air Use Permit. I arrived at the facility around 2:15 PM. Mr. Bill Fisher, the company president, met with me. I explained the purpose of the inspection. Later, he & Mr. Jim Swiatkowski took me to see the operation.

Inspection:
 Permit # 10-00

The company involves recovery the industrial diamond. They took the diamond from metal parts by placing the metal pieces in an acid bath. There are 18 acid tanks on site. All of the emissions from the tanks are controlled by two wet scrubbers. There is a lab on site. The recovery of stone in the lab is done in a similar fashion as to the process in the acid tanks, but with a much smaller scale. The entire hood in the lab is connected to the same scrubbers. There is sludge drier on site. The waste water first goes to three neutralizing tanks followed by two settling tanks where water is separated from the sludge. The wet sludge is sent automatically to a filter press. Afterwards, they manually transfer the sludge to the driver. The company operates from 7 AM to 4:30 PM. During the inspection, they didn't operate any of the processes. I observed some corrosive appearance on one of the scrubbers. I didn't inspect the demisters because I was told they were on the roof. Also, I didn't see any spills in the area where the acid tanks stood. The dry sludge power will be placed into 5 gallon drums to be shipped out. According to company's record, the company produces less than 2 tons of sludge filter cake in a month since January this year. This number is far from 200 tons per 12-month rolling time period restriction. The company could not show me the metal analysis for the sludge contents. Bill said Mr. Wilson Born, who was the old owner, passed away not long ago. Mr. Born was in charge of the environmental records. Bill couldn't locate the metal analysis; however, he said they would perform such analyses as soon as they filled the sludge barrel. The company keeps a record of the make-up material in the acid tanks and the amount of sludge processed each month. On 6/25, the company provided three analytical tests for the metals in the dry filter cakes. The results indicates that the Arsenic, chromium, & lead emission from the sludge driver met the corresponding permit emission limits. Furthermore, based on the company's addition of acids in the month of Jan. - April of this year, the corresponding acid emissions was in compliance with the permit limits during the period. Please see file for detailed emission calculation.

In conclusion, the company appeared to operate in compliance with the permit.

NAME Joyce Zhu DATE 6/30/15 SUPERVISOR CTE