May 31, 2018

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    Kristina Miller, United States Environmental Protection Agency
    James Mitchell, United States Environmental Protection Agency
    Jacob Hassan, United States Environmental Protection Agency
    Robert Thiboldeau, Wisconsin Department of Health Services
    John Sager, Wisconsin Department of Natural Resources
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Ref. No.: 11156937

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Subject: Summary of Perimeter Air Monitoring Results: May 30, 2018 – Between 00:00 and 23:59

The purpose of this memorandum is to provide Superior Refining Company LLC (SRC) site management and local, state and federal regulators a summary of GHD’s site perimeter air monitoring activities and results at the Husky Superior Refinery conducted from May 30, 2018 between 00:00 and 23:59 Central Daylight Time (CDT). Air monitoring activities were conducted in accordance with the Air Monitoring Plan, as amended, developed in consultation with the United States Environmental Protection Agency, Wisconsin Department of Natural Resources, Wisconsin Department of Health Services, Douglas County Emergency Management Agency, and Douglas County Health and Human Services.

GHD continued to monitor air quality with 15 AreaRAE monitors located at the refinery site perimeter. Monitor maintenance was conducted by GHD following the Site protocols. The AreaRAE monitors were equipped with a photo ionization detector (PID) (10.6 eV lamp) for monitoring volatile organic compounds (VOCs) and electrochemical sensors specific for carbon monoxide (CO), hydrogen sulfide (H₂S), sulfur dioxide (SO₂) and flammability (LEL). GHD monitored meter status and continuous air quality monitoring results via telemetry from the refinery control room. Results were documented through data logging.

A VOC detection was logged above the community action levels at one monitor on May 30, 2018. The detection was not sustained above the community action levels. Therefore, the detection does not constitute as an exceedance of community action levels.
Perimeter monitoring locations and status with respect to community action levels over the period of May 30, 2018 between 00:00 and 23:59 are presented on Figure 1.

Perimeter air monitoring results for VOCs, H₂S, and SO₂ over this period are presented on Figures 2 through 4, respectively.

The information contained in this memorandum will be considered preliminary until a final Quality Assurance/Quality Control (QA/QC) review of the data is completed. At the completion of the project, all data collected through real-time monitoring will be compiled, summarized, and reported to SRC. Data contained in the final report will go through GHD’s final QA/QC process, including review by a GHD Certified Industrial Hygienist (CIH).
SUMMARY OF PERIMETER ZONE AIR MONITORING RESULTS
MAY 30, 2018 - 00:00 TO 23:59