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May 9, 2017
File #34283.000

Mae Willkom
Wisconsin Department of Natural Resources
1300 W. Clairemont
Eau Claire, WI 54702

Re: National Presto Industries, Inc., Superfund Site, Eau Claire, Wisconsin
Quarterly Discharge Monitoring Report for January through March 2017
BRRTS # 02-09-000267

Dear Mae:

On behalf of National Presto Industries, Inc. (NPI), Gannett Fleming, Inc. is providing NPI's quarterly discharge monitoring report (DMR) for the period January through March 2017. The enclosed DMR summarizes flow data from Southwest Corner (SWC) extraction well EW-6 and Manhole 18 (MH-18), which discharges the flow of pumped groundwater (treated by cascade aeration) to the Chippewa River.

On January 16, 2017, EW-6 was shut down for a 12-month trial period, as approved by both the Wisconsin Department of Natural Resources (WDNR) and the USEPA. During the week of March 20, first quarter groundwater monitoring was conducted. Trichloroethylene (TCE) concentrations in monitoring well MW-76A rebounded from <0.33 to 4.6 micrograms per liter ($\mu\text{g}/\ell$) or parts per billion (ppb). Contributing factors may include the:

- Relatively high groundwater levels late in 2016.
- Shutdown of EW-6 on January 16, 2017.

It appears rising water levels may have "flushed out" residual TCE previously trapped in or just above the capillary fringe. Consequently, NPI restarted the pump in EW-6 on April 27th, per our November 2016 *EW-5 Status Report and Work Plan for a 12-Month Trial Shutdown of EW-6* document, as you and I discussed over the phone earlier that day.

In addition:

- Cascade aerator CAS-1 has been inactive since October 2010 because the pumps in Melby Road Disposal Site extraction wells EW-1R and EW-2 have been off.
- Per Footnote #4 to the DMR, the pump in SWC extraction well EW-5 was removed on September 18, 2015, and was not replaced. Consequently, a sample was not collected from EW-5 for discharge monitoring. However, samples were collected from EW-5 for

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Gannett Fleming, Inc.

8025 Excelsior Drive, Madison, WI 53717-1900

t 608.836.1500 • f 608.831.3337

www.gannettfleming.com

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groundwater monitoring of select volatile organic compounds (VOCs) using HydraSleeves located approximately 78 and 88 feet below its top of measuring point, as agreed. On 03/21/17, the concentration of TCE was 0.34J and 0.47J ppb in EW5-78' and EW5-88', respectively. All other VOCs were non-detect.

- Per Footnote #5 to the DMR, the pump in EW-6 was removed on February 22, 2017, and was not re-installed until April 26, 2017. DMR sampling is routinely performed in March; consequently, a sample was not collected from EW-6 for discharge monitoring. However, samples were collected from EW-6 for groundwater monitoring of select VOCs using a passive diffusion bag located approximately 70 feet below its top of measuring point, as agreed. On 03/21/17, the concentration of TCE was <0.33 ppb. All other VOCs were non-detect. Results will be summarized in the 2017 annual report.

Feel free to contact me if you have any questions or need additional information.

Sincerely,

GANNETT FLEMING, INC.



Clifford C. Wright, P.E., P.G.
Project Engineer

CCW/jec
Enc.

Electronic cc: Howard Caine (USEPA)
Mark Wichman (USACE)
Derrick Paul (NPI)
Dennis Kugle (Gannett Fleming)

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

QUARTERLY DISCHARGE MONITORING RESULTS FOR 01/01/17 - 03/31/17

Sample Location	Substance Concentration (µg/l), Result Qualifier (RQ), and Percent Removal (% Removal)															Flow Rate ⁽¹⁾ (MGD)
	1,1,1-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethylene			Tetrachloroethylene			Trichloroethylene (TCE)			
	ug/L	RQ	% Removal	ug/L	RQ	% Removal	ug/L	RQ	% Removal	ug/L	RQ	% Removal	ug/L	RQ	% Removal	
EW-1R ⁽²⁾	ns		na	ns		na	ns		na	ns		na	ns		na	0.0
EW-2 ⁽²⁾	ns		na	ns		na	ns		na	ns		na	ns		na	0.0
Influent 1	ns		na	ns		na	ns		na	ns		na	ns		na	0.0
Effluent 1	ns		na	ns		na	ns		na	ns		na	ns		na	0.0
EW-5 ^(3,4)	ns		na	ns		na	ns		na	ns		na	ns		na	0.0
EW-6 ^(3,5)	ns		na	ns		na	ns		na	ns		na	ns		na	0.268
Influent 2	ns		na	ns		na	ns		na	ns		na	ns		na	0.268
Effluent 2	ns		na	ns		na	ns		na	ns		na	ns		na	0.268
Manhole 18	ns		na	ns		na	ns		na	ns		na	ns		na	0.268
Discharge Limit	NLE			NLE			50			50			100			NLE

NOTES:

Concentrations are in micrograms per liter (µg/l) or parts per billion (ppb).

No discharge monitoring samples were collected for this reporting period; flow rate data compiled through 03/31/17.

Cascade aerator influent results (Influent 1 and Influent 2) were calculated based on the extraction well data (EW-1R ,etc.), where applicable.

Influent 1 = Discharge (flow) from EW-1R and EW-2.

Influent 2 = Discharge (flow and flow-weighted concentrations) from EW-5 and EW-6.

Manhole 18 = Effluent 1 (+) Effluent 2 for flow. Effluent 2 = Manhole 18 (MH-18) for concentrations because MH-18 and CAS-2R are less than 60 ft apart.

RQ = Result qualifiers.

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit (or flow-weighted value that includes J or U flagged data).

na = Not applicable.

NLE = No limit established.

ns = No sample collected for discharge monitoring.

FOOTNOTES:

(1) Flow rate calculated based on metered volume (4,019,500 gallons) and pumping days (15).

(2) Melby Road Disposal Site extraction well (currently shut down).

(3) Southwest Corner extraction well (currently shut down).

(4) Pump in EW-5 removed on 09/18/15 and not re-installed. Although ns for discharge monitoring, samples from 78 and 88 ft below top of measuring point were collected for groundwater monitoring using HydraSleeves. On 03/21/17, TCE was 0.34J and 0.47J ppb at 78 and 88 ft, respectively. All other VOCs were non-detect.

(5) Pump in EW-6 removed on 02/22/17 and not re-installed until 04/26/17. Although ns for discharge monitoring in Q1, a sample from approximately 70 feet below top of measuring point was collected for groundwater monitoring using a passive diffusion bag. On 03/21/17, TCE was <0.33 ppb and all other VOCs were non-detect.