

April 6, 2016

Mr. Timothy Grape
Project Manager
Superfund Unit 1, Remediation Program
Minnesota Pollution Control Agency
520 Lafayette Road
St. Paul, Minnesota 55155

Re: 2016 Glacial Drift Network Groundwater Monitoring Plan
East Hennepin Avenue Site, Minneapolis, Minnesota; Site ID# SR3

Dear Mr. Grape:

Barr Engineering Co. (Barr) prepared this 2016 Glacial Drift Network Groundwater Monitoring Plan (2016 Plan) on behalf of General Mills, Inc. (General Mills). The 2016 Plan has been prepared in response to your November 3, 2015, letter in which the Minnesota Pollution Control Agency (MPCA) provided its response to the Vapor Intrusion Pathway Investigation Report. MPCA's letter included a request to submit a monitoring well network sampling plan.

This letter describes the 2016 Plan. Additionally, quarterly sampling of the sentinel monitoring network will be conducted in 2016, as described in the 2015 Sentinel Monitoring Network Report and approved by MPCA in a letter dated January 28, 2016.

Groundwater samples will be collected from locations shown on Figure 1. Groundwater sampling locations and the sampling period are listed in Table 1, along with the rationale for sampling each location. Groundwater samples will be collected using low-flow sampling methods described in the Standard Operating Procedures (SOPs) that were in Appendix A of the Vapor Intrusion Pathway Investigation and Feasibility Study Work Plan, prepared by Barr in August 2014 (VIPI Work Plan). Prior to sampling, water levels in each well will be measured using an electronic water level indicator. Groundwater samples will be placed in laboratory-supplied containers and submitted to a certified laboratory for chemical analysis.

This 2016 Plan carries forward the quality assurance and data quality objectives described in the VIPI Work Plan and the Quality Assurance Project Plan (QAPP) prepared by Barr and approved by MPCA on October 28, 2014. Groundwater samples will be analyzed for the volatile organic compound list using EPA Method 8260, consistent with the QAPP.

Purge water from monitoring well sampling will be containerized and stored on Site for eventual disposal. Containerized waste will be sampled in accordance with Barr's SOPs and disposed in accordance with federal, state, and local regulations.

The results of groundwater monitoring will be summarized in a data report and submitted to MPCA within six weeks following receipt of the complete and validated analytical data set.

Please contact Sara Gaffin at (952) 832-2935 or sgaffin@barr.com with any questions on the information contained in this letter.

Sincerely,



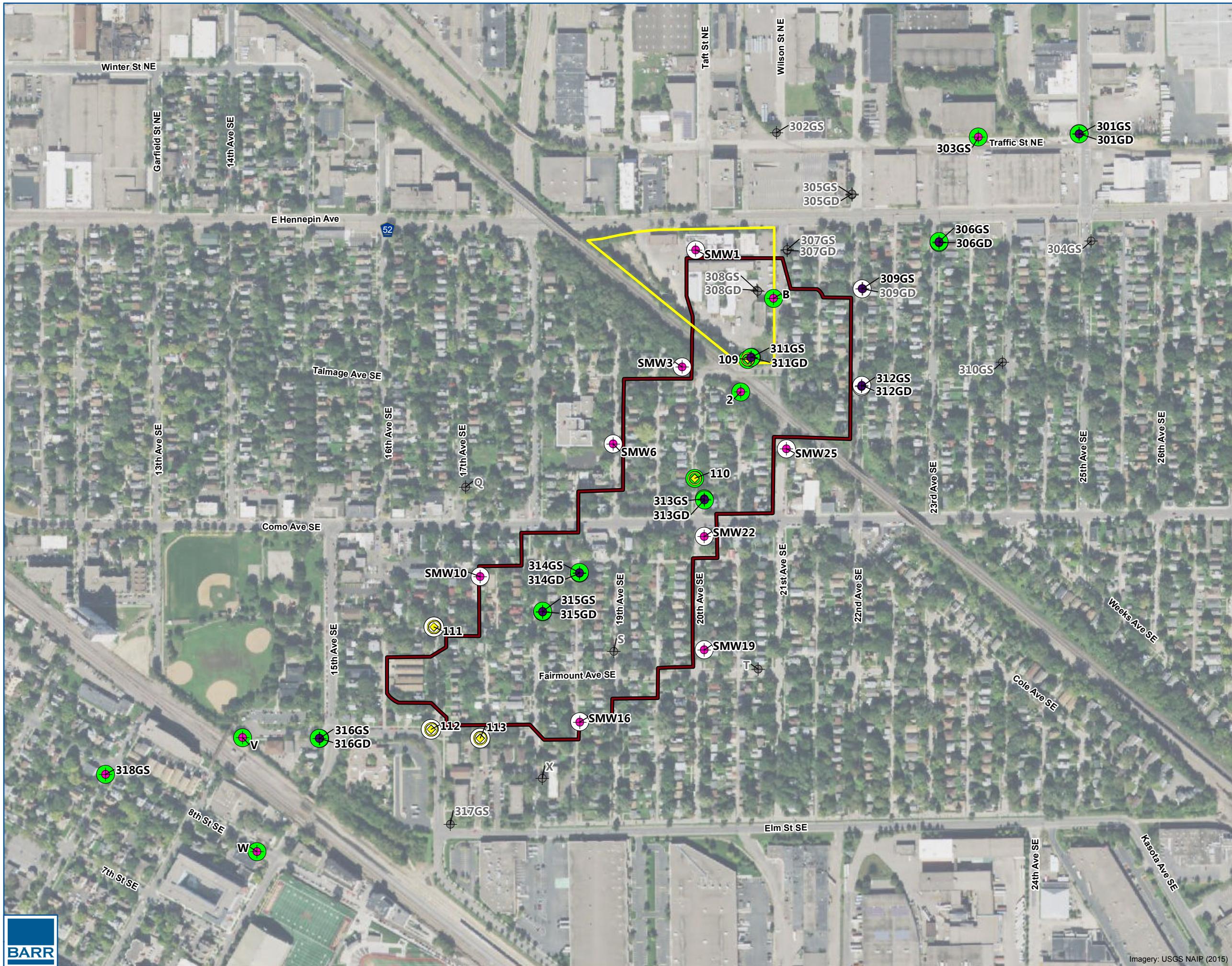
Sara Gaffin, P.E.
Project Manager



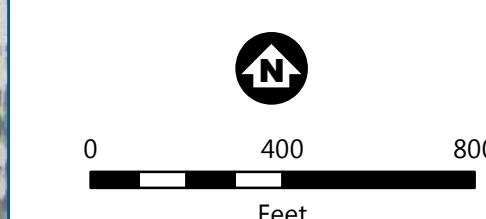
Mary Sands
Vice President

cc: Fred Campbell, MPCA
Larry Deeney, General Mills, Inc.

Attachments: Figure 1 – 2016 Glacial Drift Groundwater Monitoring Network
Table 1 – 2016 Glacial Drift Groundwater Monitoring Plan



- 2010 East Hennepin Ave
- Soil Gas Monitoring Area
- Monitoring Well Locations
- Glacial Drift Monitoring Well
 - Glacial Drift Nested Monitoring Well
 - Glacial Drift Pump-Out Well
- Monitoring Networks
- Groundwater Monitoring Network for Annual Sampling in 2016
 - Sentinel Monitoring Network for Quarterly Sampling in 2016
 - Existing Monitoring Well - Not Sampled



2016 GLACIAL DRIFT
GROUNDWATER
MONITORING NETWORK
East Hennepin Avenue Site
Minneapolis, Minnesota

Imagery: USGS NAIP (2015)

FIGURE 1

Table 1

2016 Glacial Drift Groundwater Monitoring Plan
East Hennepin Avenue Site
Minneapolis, Minnesota

Sampling Location	Sampling Period	Parameter¹	Rationale
301GS/GD			
303GS	3rd Quarter	VOCs	Wells included to measure up-gradient impacts from off-Site sources.
306GS/GD			
311GS/GD	3rd Quarter	VOCs	Well included to collect data in the vicinity of the former disposal area.
B			
2			
109			
110			
313GS/GD			
314GS/GD	3rd Quarter	VOCs	Wells included to collect data from the axis of higher TCE concentrations (>100 µg/L) in glacial drift groundwater
315GS/GD			and higher TCE concentrations (> 1,000 µg/m ³) in sub-slab soil gas measured during previous investigations.
316GS/GD			
318GS			
V			
W	3rd Quarter	VOCs	Wells included to collect data down-gradient from the Soil Gas Monitoring Area.

Notes:

¹ U.S. EPA Method 8260