Table 1: Groundwater Analytical Results for Dewatering Permitting Approval

Project Name:

Project Location:

Compound/Parameter	CAS No. Depth (ft) Sample Date	Sample Identifier, Depth to Groundwater, and Date Collected				HCl Trip Blank ---	HCL Trip Blank ---	Drinking Water Criteria (µg/L)	Source-Date
Volatile Organic Compounds (VOCs) (µg/L)									
Acetone	67-64-1							4,000	HRL-11
Benzene	71-43-2							2	HRL-09
n-Butylbenzene	104-51-8							NE	---
sec-Butylbenzene	135-98-8							NE	---
cis-1,2-Dichloroethene	156-59-2							6	HBV-14
Ethylbenzene	100-41-4							50	HRL-11
Isopropylbenzene (Cumene)	98-82-8							300	HRL-93
p-Isopropyltoluene	99-87-6							NE	---
Methyl ethyl ketone (MEK, 2-Butanone)	78-93-1							4,000	HRL-94
Naphthalene	91-20-3							70	HRL-13
n-Propylbenzene	103-65-1							NE	---
Toluene	108-88-3							200	HRL-11
1,2,4-Trimethylbenzene	95-63-6							30	HBV-20
1,3,5-Trimethylbenzene	108-67-8							100	HRL-09
Vinyl chloride	75-01-4							0.2	HRL-09
Xylenes, total	1330-20-7							300	HRL-11
All other reported VOCs	---							---	---
Metals (µg/L)									
Arsenic, Dissolved	7440-38-2							10	MCL
Barium, Dissolved	7440-39-3							2,000	HRL-93
Cadmium, Dissolved	7440-43-9							0.5	HRL-15
Chromium, Dissolved[d]	7440-47-3							20,000/100[d]	HRL-94
Lead, Dissolved	7439-92-1							15	MCL
Mercury, Dissolved	7439-97-6							2	MCL
Selenium, Dissolved	7782-49-2							30	HRL-93
Silver, Dissolved	7440-22-4							30	HRL-93
Other Parameters (µg/L)									
Diesel Range Organics (DRO)	---							200	GDL
Gasoline Range Organics (GRO)	---							200	GDL
m&p-Xylene	179601-23-1							---	---
o-Xylene	95-47-6							---	---

Notes

The hierarchy of Drinking Water Criteria (DWC) presented is: Minnesota Department of Health (MDH) Health Risk Limit (HRL), United States Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL), MDH Health Based-Value (HBV), MDH Risk Assessment Advice (RAA), or Minnesota Pollution Control Agency (MPCA) Ground Water Pump Out General Permit Discharge Limits (GDL), as available. The most conservative values for chronic or cancer exposures are presented. The dates of promulgation are provided, if available.

µg/L = Micrograms per liter.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report. NE = Regulatory limit not established for this parameter.

cPAH = Individual regulatory limit not established for this carcinogenic PAH; included in BaP equivalent calculation.

[d] = Reported result is total chromium, criteria for chromium III and chromium VI are provided.

[1] [D4] Sample was diluted due to the presence of high levels of target analytes.

[2] [P2] Re-extraction or re-analysis could not be performed due to insufficient sample amount.

[4] [G-] Early peaks present outside the GRO window.

[5] [T7] Low boiling point hydrocarbons are present in the sample.

[6] [GO] Early and late peaks present outside the GRO window.[S2] Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

Exceeds DWC and/or GDLs