March 21, 2025

AASHTO Corrosivity Customer
Attn: Principal Engineer
1527 First Ave.
Greeley, CO 80631

Project No.: 17569834
Sample ID: SS-01 5-6'
Laboratory No.: E25999-5A

	Results[1,3]	**10-Point System**[2]
pH (SI) AASHTO T 289-91 (ASTM G51 available for some soil)	7.0	0
Conductivity (mmhos/cm)	0.500	NA
Resistivity (ohm-m) USDA Handbook 60, temperature corrected conductivity probe	20.00	
Minimum Lab Resistivity (ohm-cm)	2250	2
Minimum Lab Resistivity (ohm-m) via Miller Box, Tinker & Razor SR-2 (AASHTO T 288-12)[4]	22.5	
Redox (mV vs. Ag/AgCl) ASTM G200 (ASTM D1498 if soil is low in moisture)	90	3.5
Free Sulfide (mg/kg DMB) EPA 9030B+9034, prescreened with lead acetate paper	NA	NA
Chloride (mg/kg DMB) AASHTO T 291-94	12	0
Sulfate (mg/kg DMB) AASHTO T 290-95	891	3
Sulfate-S (mg/kg DMB)	297.0	

1. NA = Not Analyzed; ND = Not Detected. DMB = Dry Matter Basis. Measurements taken at 25°C.
2. 10-point Corrosion system based on: Appendix A of ANSI/AWWA C105/A21.5 Standard “Polyethylene Encasement for Ductile Iron Pipe Systems." The Cl- points adapted from the DIPRA design decision model. Sulfate is penalized at half the rate of chloride: A. A. Sagüés et. al. (https://rosap.ntl.bts.gov/view/dot/17493)
3. pH, Conductivity, and Redox are generally read on a 1:1 soil:water mixture if the soil is dry.
4. ASTM G57 4-Electrode Method used unless 2-electrode method is requested.

Project Manager _____ Date _____