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Butte Reduction Works Interim Demolition Plan Phase II Encroachment Analysis

Pioneer Technical Services, Inc.

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September 3, 2024

Ms. Julia Crain
Butte Silver Bow Planning Director
City-County of Butte-Silver Bow Planning Department
155 W. Granite Street, Room 108
Butte, MT 59701

RE: Butte Reduction Works Interim Demolition Plan Phase II Encroachment Analysis

Dear Ms. Crain,

The analyses presented in the Pioneer Technical Services, Inc. technical memorandum titled “*Butte Reduction Works Smelter Area Interim Demolition Plan Phase II Floodplain Encroachment Analysis*” were performed in accordance with Federal Emergency Management Agency (FEMA) standards and standard engineering practices.

The proposed Butte Reduction Works Interim Demolition Plan Phase II work is located in a mapped Zone A floodplain. Zone A floodplains require that proposed projects produce a rise in base flood elevations of less than 0.5 feet. The proposed work outlined in the attached construction drawings will remove obstructions from the floodplain, resulting in minimal change to the pre-work condition floodplain and, as a result, minimal change in the base flood elevation, velocity, etc., within the proposed work area.

This project meets the applicable requirements and standards of the *Butte-Silver Bow Floodplain Hazard Management Regulations (June 2022)*. The proposed project does not raise base flood elevations more than 0.5 feet or significantly increase base flood velocities.

Sincerely,



Jon Jupka, P.E., CFM
Project Manager
Pioneer Technical Services