

August 8, 2019

Project No. 9231000005.5000

Jerome Cruz, PhD
Washington Department of Ecology (Ecology)

LANDSBURG MINE SITE REMEDIATION CONSTRUCTION ACTIVITIES SUMMARY REPORT JULY AND AUGUST 2019

Construction activities completed at the Landsburg Mine Site (the Site) during July and August 2019 are summarized as follows:

- Goodfellow Bros Inc. (GBI) continued filling of the trenches. As of August 5, the trenches have been filled and a compacted cap layer approximately 3-feet thick above the previous elevation of the trench rim has been added on Areas 7, 8, and 9. A total of 148,016 cubic yards (cy) of fill material was placed at the Site. GBI demobilized from the Site on August 8, 2019. The material will be allowed to settle over the winter and the Site conditions will be reassessed in the spring of 2020 to prepare for the installation of a low-permeability cap and vegetated soil cover.
- Additional lab analyses were conducted on the fill material. A technical memorandum is being completed and will be submitted to Ecology summarizing the final soil characterization sampling and analysis.
- Field screening conducted at the fill source and screening of the soil delivered to the Site did not show any indications of potential contamination. Golder conducted periodic screening of the fill material using a photoionization device (PID) and did not observe any PID readings above background concentrations.
- Golder continued short-term groundwater monitoring in accordance with Table A-2 of the Construction Management Plan (CMP). Groundwater samples were collected on July 9, 10, and 11 and delivered to the laboratory for analysis. Groundwater monitoring for measurement of field parameters was also completed during the week of July 22. Groundwater monitoring data for the June and July events have been validated and are currently being compiled into monitoring reports for submittal to Ecology. Short-term groundwater monitoring data have not shown any indications that the backfilling induced any change in groundwater quality at the Site.

Anticipated Tasks to Occur During the Next Month:

- Continue short-term monitoring in accordance with Table A-2 of the CMP
- Start backfilling of Portal #2

Please contact Gary Zimmerman at (425) 883-0777 if you have any questions.

Golder Associates Inc.



Gary Zimmerman
Principal

JX/GLZ

Attachments: Site Photographs

THE FOLLOWING PHOTOGRAPHS DEPICT THE TRENCH AREAS BEFORE AND AFTER BACKFILLING

Photo 1 – Area 9, November 15, 2018 (looking south from northern tip)



Photo 2 – Area 9, August 5, 2019 (looking south from northern tip)



Photo 3 – Area 8, November 20, 2018 (looking northeast from southern tip)



Photo 4 – Area 8, August 5, 2019 (looking north from southern tip)



Photo 5 – Area 7, November 20, 2018 (looking northeast from southern tip)



Photo 6 – Area 7, June 25, 2019 (looking north from southern tip)



Photo 7 – Area 6, November 20, 2018 (looking north from southern tip)



Photo 8 – Area 6 buttress, August 5, 2019 (looking north from southern tip)



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