



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

1313 Sherman St. Room 215
Denver, CO 80203

June 27, 2023

Peter Weiland
Weiland Inc.
PO Box 18087
Boulder CO 80308

RE: Permit M2019-025; Amen Aggregate Resource; Technical Revision 1 (TR1) –
Groundwater Monitoring Plan and Baseline Data Submittal, Adequacy Review 2

Mr. Weiland:

The Division of Reclamation, Mining and Safety received Technical Revision 1 (TR1) on April 14, 2023. **The decision date for this revision has been extended at your request to July 15, 2023. Please be advised that if you are unable to satisfactorily address any concerns identified in this review before the decision date, it will be your responsibility to request an extension of the review period.** If there are outstanding issues that have not been adequately addressed prior to the end of the review period, and no extension has been requested, the Division must deny this revision.

DRMS has completed the adequacy review of the most recent submittal for TR1 dated June 14, 2023. The June 14th revision seems intended to fully replace the prior submittal and has been reviewed as such. Although the latest submittal is a significant improvement, DMRS will still require clarification of the provided information and submittal of additional information before it can be approved. Remaining items have been numbered below to facilitate response.

Please provide the following information/clarifications:

- 1) Based on discussions at the DRMS office on April 25, the permittee also wishes to submit designs for the proposed underdrains on the south and west side of the lined cells as part of this TR. Is this still the case? If not, these designs will need to be reviewed and approved under a subsequent TR.
- 2) Table 3 – Agricultural Standards, as well as the Radiological Standards at the end of Table 1 from the Interim Narrative Standard (Reg. 41), have been left out of the provided Table 1.2.1. These will need to be included as they contain additional applicable analytes and standards, (such as Aluminum, Boron and Zinc). You may also



consolidate all the analytes and standards into one table that shows the lowest standard for each analyte as applicable if you prefer.

- 3) Please provide a rationale for any analytes you wish to remove from the baseline sampling plan and subsequent site monitoring (examples may include: Gross Alpha Particle Activity, Beta and Photon Emitters, Chlorophenol, Color, Odor, Asbestos, Foaming Agents, Phenol).
- 4) DRMS will require that groundwater level data be collected at least monthly from all wells on-site upon installation, and that groundwater quality data be collected at least annually from all wells after the initial 5 consecutive quarters of baseline data have been submitted. Please acknowledge or include in the provided plan.
- 5) DRMS will require that an appropriate logbook or field data sheets be maintained containing information and observations from the sampling of each well (such as date, time, purge method and volume, field parameters and calibration data, samples collected, other relevant observations, etc.) This data will need to be retained by the permittee for inclusion in the subsequent baseline data report or review by DRMS if needed. Please acknowledge or include in the provided plan.
- 6) Section 3.3.1 - This section should contain additional information to indicate that samples for all inorganic analytes will be properly filtered as required for comparison to the applicable standards, and preserved as required by the appropriate lab method. Also, if sample filtering and preservation will be done by field personnel or at the selected laboratory.
- 7) DRMS will require that a Technical Revision (TR) containing the baseline data report, and comparisons to the Table Value Standards, GPS monitoring well locations, construction diagrams, and updated groundwater contour map be submitted when the baseline data collection and analysis is complete. At that time, DRMS will evaluate the 5 quarters of data and constituents identified as exceeding table value standards in baseline data.

Permit-specific benchmarks will be set by DRMS for those constituents identified as exceeding table value standards in baseline data, as well as sampling and reporting requirements for continued monitoring. Reporting requirements and follow-up actions for observed exceedances of either groundwater level or quality benchmarks will be specified and approved in this revision. Please acknowledge or include in the provided plan.

- 8) In light of the requirement for this baseline data report TR described above, please remove the sentence text at the bottom of Page 6 of 7 which states, "If background values exceed those in Table 1.2.1 Numeric Water Quality Standards, then the average of those values over the 5 sampling events will then become the new "not to exceed" standard."

- 9) Please also remove the sentence at the end of Page 7 of 7 which states “If the water quality exceeds threshold exceedance values, as established in Section 1.4.1 above, by greater than 10%, then a Technical Revision will be filed with the DRMS to include remedial actions and additional testing required to bring the site into compliance.”

(You may propose the ideas in items 6 and 7 above for DRMS approval in the subsequent baseline data TR if it still seems appropriate based on the collected baseline data at that time.)

- 10) Section 3.3.2 – Please remove “and Threshold Exceedance” from this header.
- 11) Section 3.3.2 - It seems that the last two bullet items in this section are discussing “background sampling wells” and not point of compliance (POC) wells, please correct as needed.
- 12) Section 3.3.2 - Please make sure that the sampling methodology is consistent with any changes made section 3.3.1 as specified above.
- 13) Groundwater level and quality data will be included with the annual report and compared to I.N.S. Table Value Standards and/or any site specific benchmarks. Please acknowledge or include in the provided plan.

This concludes the Division’s second adequacy review of TR1. This letter shall not be construed to mean that there are no other technical issues with the submittal. Other issues may arise as additional information is supplied.

If you have any questions, please contact me at (303) 229-9414, or by e-mail at eric.scott@state.co.us.

Sincerely,



Eric Scott
Environmental Protection Specialist