



STATE OF
COLORADO

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

GCC Pueblo Facility - Notification of Groundwater Discharge Exceedance 2021-Q2 - Permit #M2002004

1 message

Landon Beck <lbeck@resourcehydrogeologic.com>

Tue, Jun 15, 2021 at 5:23 PM

To: "Lennberg - DNR, Patrick" <patrick.lennberg@state.co.us>, "Gannon, Greg" <dfurman@gcc.com>

Cc: Lotito Gina <gnance@gcc.com>, Alarcon Alejandro <aalarcon@gcc.com>, Scott Legg <slegg@aquionix.com>

Good Afternoon Patrick,

Pursuant to Rule 3.1.7(9), this email provides timely notification of concentrations above Colorado state ag standards in groundwater samples collected as part of the recent 2nd Quarter 2021 sampling event at GCC's Pueblo Facility. On June 10th, GCC received a laboratory report from ACZ Laboratories indicating concentrations above the ag standards in the samples collected from MW-6, MW-7 & MW-8 on May 19th. The report provided the following results:

| Parameter | State Ag Standard | Results (MW-6) | Results (MW-7) | Results (MW-8) | Results (MW-7 Field Duplicate) |
|-----------|-------------------|----------------|----------------|----------------|--------------------------------|
| Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| Boron | 750 | 378 | 139 | 886 | 139 |
| Manganese | 200 | 357 | <10 | 275 | <10 |
| Selenium | 20 | 2.33 | 40.1 | 0.24 | 39.8 |

As noted in [Water Quality Control Commission, Regulation 41 - The Basic Standards for Groundwater](#), the manganese standard of 200 µg/L is only appropriate where irrigation water is applied to soils with pH values lower than 6.0, which is not the case for areas potentially receiving waters from this facility. Also noted in [Water Quality Control Commission, Regulation 41 - The Basic Standards for Groundwater](#), the boron standard of 750 µg/L is set to protect the following plants in ascending order of sensitivity: Pecan, Black Walnut, Persian (English) Walnut, Jerusalem Artichoke, Navy Bean, American Elm, Plum, Pear, Apple, Grape (Sultanina and Malaga), Kadota Fig, Persimmon, Cherry, Peach, Apricot, Thornless Blackberry, Orange, Avocado, Grapefruit, Lemon. As GCC has documented per DRMS request in the Review Response 2020 Annual Groundwater Report, M2002-004, dated April 14, 2021, a crop watering use of groundwater for these species in areas potentially receiving waters from this facility is not reasonably expected, and therefore the applicable groundwater standard for boron is 5000 µg/l.

GCC will proceed to complete our data review, validation and verification process and will send the field and laboratory records in the annual report.

Please feel free to contact me if you have any questions.

Thanks,

Landon

Landon Beck | Principal Hydrogeologist



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