

ROCKY FLATS SITE

REGULATORY CONTACT RECORD 2022-02

Purpose: Boron analytical results at Present Landfill groundwater treatment system effluent location PLFSYSEFF

Contact Record Approval Date: February 2, 2023

Site Contacts and Affiliations: Andy Keim and Shawn Eichelberger, U.S. Department of Energy (DOE); Dana Santi and Ryan Wisniewski, RSI EnTech, LLC (RSI)

Regulatory Contacts and Affiliations: Lindsay Murl, Colorado Department of Public Health and Environment (CDPHE); Rob Stites, U.S. Environmental Protection Agency (EPA)

Date of Consultation Meeting: September 27, 2022

Consultation Meeting Participants: Lindsay Murl, CDPHE; Rob Stites, EPA; Andy Keim and Shawn Eichelberger, DOE; Dana Santi, Ryan Wisniewski, John Boylan, George Squibb, and Karin McShea, RSI

Related Contact Records: Contact Record (CR) 2006-02

Introduction: The *Rocky Flats Legacy Management Agreement* (RFLMA) Parties held a consultation to discuss the analytical results for boron at Present Landfill groundwater treatment system effluent location PLFSYSEFF. Analytical results for boron at this location have regularly been above the surface water standard identified in Table 1, “Surface Water Standards,” of the RFLMA. As noted in CR 2006-02, the RFLMA Parties recognized that the surface water standard of 750 micrograms per liter (total) identified within the RFLMA (and previously used within the Rocky Flats Closure Agreement) derives from Colorado Water Quality Control Commission Regulation 38 for Segments 4a, 4b, and 5 of Big Dry Creek basin and that this value comes from an agricultural use designed specifically to protect fruit and nut trees. The parties also recognize that the 2017 Restrictive Notice for Rocky Flats, recorded with Jefferson County, Colorado, restricts the agricultural and drinking water use of surface water within the Central Operable Unit.

Discussion: As part of obtaining supplemental data for evaluation to ensure protection of human health and the environment, the RFLMA Parties agreed to DOE temporarily performing additional sampling for boron downstream of groundwater treatment system effluent location PLFSYSEFF. DOE must provide additional data regarding the presence of boron, which originates from the Present Landfill, and its concentration in downstream receiving surface water before exiting the Central Operable Unit.

DOE will conduct quarterly opportunistic sampling for boron at surface water location NNG01, and started in the fourth quarter of calendar year 2022. The collection and analysis of the samples will last 1 calendar year, and DOE must include the resulting data in the routine

RFLMA quarterly and annual reports. Additionally, the analysis of the composite samples collected at surface water location GS33 will include boron.¹

Once the planned sampling schedule is complete and all data have been shared with the RFLMA Parties, the RFLMA Parties will review the results in a follow-up consultation to determine if any additional actions may be warranted at that time. Any additional determinations made in future consultations based on the activities identified within this CR will be documented separately.

Resolution: CDPHE, after consultation with EPA, approves this CR.

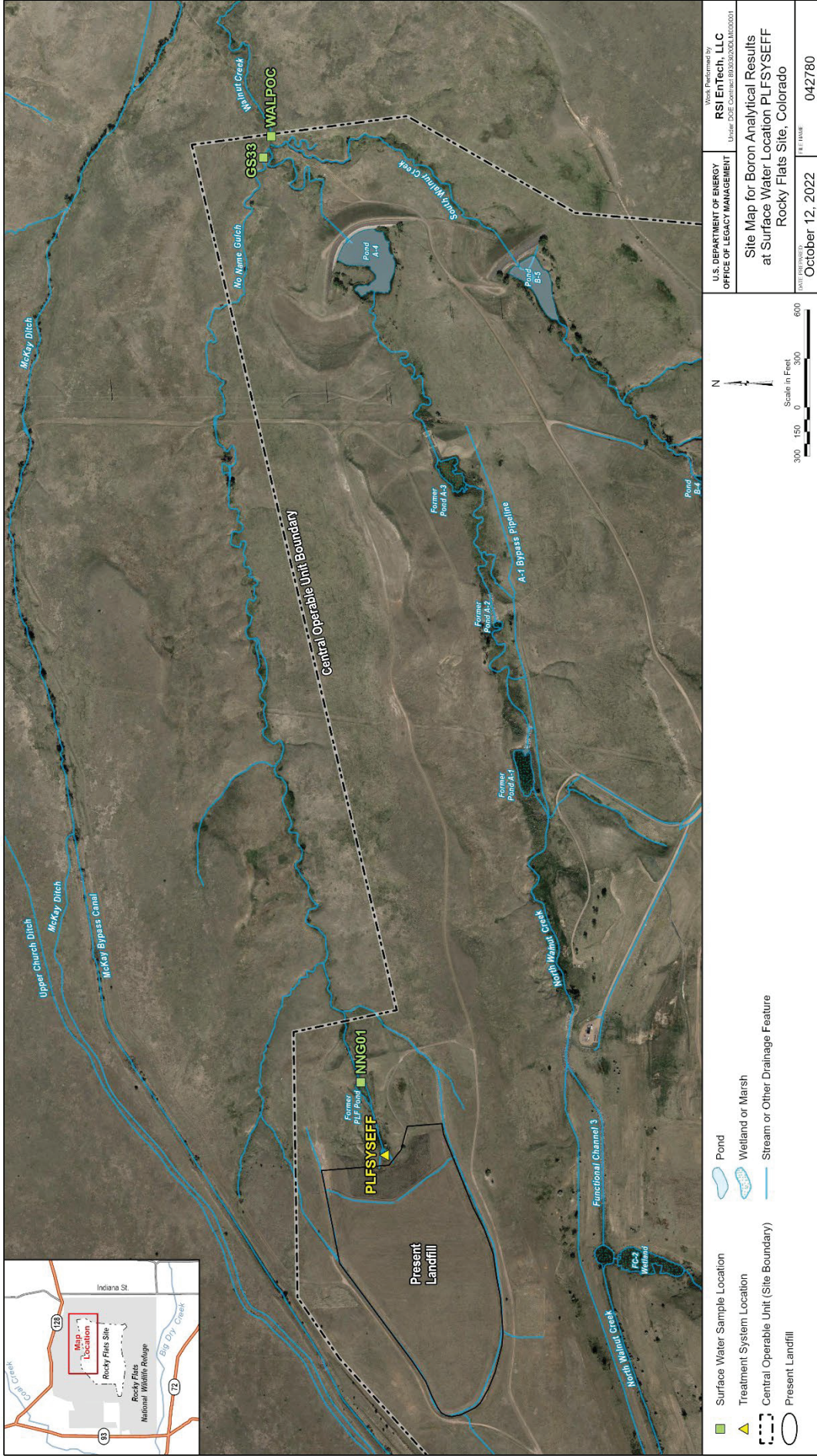
Action Complete: The actions approved in this CR will continue as part of routine surface water monitoring and reporting, as identified in the sections above and documented within the RFLMA. Any future changes to these steps will be documented separately.

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Distribution:

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Rocky Flats Contact Record File

¹ Automated composite sampling frequency depends on water availability. Surface water location GS33 flows most years, with the majority of flow occurring in April and May; generally, four to eight composite samples are collected during a year with flow.



Abbreviations: FC = Functional Channel, PLF = Present Landfill

Figure 1. Surface Water Locations