

**Tenth Semiannual Progress Report – Selection of Remedy  
Huntley Generating Station—Huntley Power LLC  
South Settling Pond  
Tonawanda, New York**

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Following completion of the Assessment of Corrective Measures Report (ACM Report) on August 31, 2019 (specific to arsenic) and per the requirements of 40 CFR §257.97(a), this document represents the tenth semiannual progress report (for the period ending July 31, 2024) with regard to the ongoing CCR remedy selection process for the South Settling Pond at the Huntley Generating Station. In addition, this progress report now also encompasses the status of remedy selection for lithium, which was the subject of a subsequent ACM Report completed on March 12, 2021. However, and despite lithium being measured above CCR groundwater protection standards, arsenic has remained the principal driver for future remediation activities at the site. In this regard, it is desired that the ultimate treatment technology selected will be dually effective for both of these CCR Appendix IV constituents.

As outlined in each of the ACM Reports, a portion of the Huntley Station property (referred to as the South Parcel) was enrolled in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) in February 2019. The limits of the South Parcel encompass the South Settling Pond, and thus the CCR remedy selection efforts for both arsenic and lithium maintain a significant inter-dependency with the findings, outcome and corresponding BCP remedy evaluation activities.

Below is a historical account of CCR and BCP efforts to date, inclusive of the reporting period.

With respect to the BCP, the NYSDEC-Region 9 issued a Fact Sheet (previously attached to the first semiannual progress report; January 2020) that provided an overview of the South Parcel (NYSDEC Site No. C915337) and advertised a public comment period on the Remedial Investigation Work Plan (RIWP). The final approved RIWP was issued in late-July 2020, with supporting field work and sampling initially performed during October-November 2020, followed by a second round of field work conducted July and September 2021 to address identified data gaps. In mid-January 2022, Huntley Power LLC met with the NYSDEC to discuss preliminary remedial strategies under the BCP and provide an overview of the elements being considered as part of a conceptual remedy under the CCR framework.

These efforts resulted in submittal of a draft RI Report to the NYSDEC in early-May 2022, and submittal of a draft Alternatives Analysis Report & Remedial Action Work Plan (AAR/RAWP) on June 28, 2022. Within this latter document, various remedial options were presented, with identification of a proposed remedy for soils and groundwater, including a remediation strategy for the South Settling Pond that is responsive to the CCR Rule. NYSDEC's comments on the draft AAR/RAWP were received on November 29, 2022, and were addressed during early-2023 through collection of additional arsenic groundwater data and performance of limited hydraulic conductivity analyses on selected subsurface soils. These supplemental results, which were

compiled into a revised RI Report and submitted to the NYSDEC on April 19, 2023, provided ample evidence that the proposed phytoremediation technology (as documented in the draft AAR/RAWP for managing arsenic in groundwater) would not be effective under the present site conditions. Following this submittal, subsequent additional comments were received from NYSDEC regarding arsenic remediation and the need for further characterization of the eastern berm soil materials prior to their potential use as on-site backfill during overall remedy implementation.

In response to these NYSDEC comments, and in cooperation with the NYSDEC, a Bench Study Work Plan was submitted to the NYSDEC in June 2023. The work plan encompassed further characterization of the eastern berm soils and performance of a focused bench study to examine the potential effectiveness of various arsenic fixation technologies to address the groundwater.

Several months of bench-scale testing was conducted by two vendors to investigate the efficacy of several products at various concentrations. While the testing demonstrated effectiveness in fixing arsenic, further analyses showed that the treatment would not be effective. In addition, the vendors determined that the high porosity of the soils would make a permeable reactive barrier technically difficult. After a third vendor was unable to leach arsenic above site standard to determine treatability options, the studies were temporarily suspended while other options were evaluated.

Because we are evaluating other options, Huntley Power met with NYSDEC in March 2024 to discuss potential interim remedial measures (IRMs) for the site, and again in June 2024 to review progress on arsenic fixation and discuss potential impacts on the project from the newly promulgated CCR Legacy rules which may affect the BCP footprint.

Following the June meeting with NYSDEC, Huntley Power submitted IRM plans to address current site conditions and thus AAR/RAWP revisions are on hold as work continues on the following tasks:

- Preparing a final report on arsenic fixation technologies for NYSDEC review.
- Preparing plans for IRMs, which may include areas subject to the Legacy Rule, to be conducted this calendar year.
- Analyzing samples for the impact of using recycled concrete regarding leachate analysis to check suitability for use as fill for the South Pond.
- Developing revised approaches for arsenic treatment and preparing IRMs for BCP areas of concern.
- Identifying the impact of the EPA CCR legacy rule on the Huntley BCP approach.

Concurrent with the above and as required, Huntley Power will continue to conduct groundwater Assessment Monitoring events for the South Settling Pond. The next semiannual remedy selection progress report will provide an update for the period covering August 1, 2024 through January 31, 2025.