

**Monticello, Utah, National  
Priorities List (NPL) Sites  
Federal Facility Agreement (FFA)  
Quarterly Report:  
January 1–March 31, 2025**

**July 2025**



U.S. DEPARTMENT OF  
**ENERGY**

Legacy  
Management

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## Abbreviations

AOA	Area of Attainment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
FFA	Federal Facility Agreement
gpad	gallons per acre per day
gpm	gallons per minute
GRO	Groundwater Remedy Optimization
IC	institutional control
LCRS	Leachate Collection and Removal System
LDS	Leak Detection System
LM	Office of Legacy Management
LTS&M	long-term surveillance and maintenance
LTS&M Plan	Long-Term Surveillance and Maintenance Plan
MMTS	Monticello Mill Tailings Site
MVP	Monticello Vicinity Properties
NPL	National Priorities List
OU	Operable Unit
PRB	permeable reactive barrier
P&T	pump-and-treat
TSF	Temporary Storage Facility
UDEQ	Utah Department of Environmental Quality
UDOT	Utah Department of Transportation
ZVI	zero-valent iron

## 1.0 Introduction

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) submits this quarterly report to inform the U.S. Environmental Protection Agency (EPA) and the Utah Department of Environmental Quality (UDEQ) of the status of the Monticello Vicinity Properties (MVP) and the Monticello Mill Tailings Site (MMTS), collectively called the LM Monticello, Utah, Disposal and Processing Sites, for January 1 through March 31, 2025. The MVP and MMTS are National Priorities List (NPL) sites regulated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as described in Title 42 *United States Code* Section 9601 et seq. (42 USC 9601 et seq.). Quarterly reports are submitted to EPA and UDEQ in February (for October through December), May (for January through March), August (for April through June), and November (for July through September).

LM assesses MVP and MMTS conditions and remedy protectiveness through (1) monthly, quarterly, and annual inspections of site infrastructure and operations as specified in the *Long-Term Surveillance and Maintenance Plan for Monticello NPL Sites* (DOE 2022a), also called the Long-Term Surveillance and Maintenance Plan (LTS&M Plan); (2) semiannual monitoring of groundwater and surface water under the *Record of Decision for the Monticello Mill Tailings (USDOE) Site Operable Unit III, Surface Water and Ground Water, Monticello, Utah* (DOE 2004); and (3) CERCLA Five-Year Review reports.

The primary long-term surveillance and maintenance (LTS&M) activities at the MVP and MMTS are conducted to (1) provide radiological control at properties where residual soil contamination from uranium mill tailings remains in place (supplemental standards properties), (2) operate and maintain the mill tailings repository, (3) ensure that institutional controls (ICs) restricting the use of land and water remain effective, (4) monitor water quality restoration progress, and (5) operate the Operable Unit (OU) III pump-and-treat (P&T) Groundwater Remedy Optimization (GRO) system. This system, implemented in January 2015, focuses on groundwater remediation within a specified region of the alluvial aquifer called the Area of Attainment (AOA).

Annual groundwater reports present comprehensive data evaluation for the groundwater and surface water OU III remedy. LM has utilized the data presented in the most recent annual groundwater report to update the conceptual site model and develop a three-dimensional numerical fate and transport model to assess remedial time frames.

Project milestones and guiding documents are further described in the *Monticello Site Management Plan* (DOE 2003). Section 5.0 of that document is updated annually.

### 1.1 Quarterly Site Status

In summary, the activities and observations for this quarter consist of the following:

- The GRO system operated from January 1 to March 25 this quarter. The system removed approximately 473,334 gallons of water from the AOA.
- The previous period's Federal Facility Agreement (FFA) quarterly report was submitted to EPA and UDEQ in February 2025.

- Weekly site inspections were performed by site personnel to verify the integrity of the site's systems and monitor activities that might occur in supplemental standards properties (e.g., City of Monticello streets and utility corridors).
- Site personnel performed monthly and quarterly site inspections in accordance with the LTS&M Plan; however, the *Monticello Long-Term Surveillance and Maintenance Temporary Storage Facility (TSF) Record Book Inspection Report* was not conducted during this reporting period.
- Routine surveillance did not identify anomalous conditions for the MVP remedy.
- Routine surveillance did not note any violations of MMTS ICs that restrict land and groundwater use.
- Routine surveillance identified a single unusual surface irregularity on the disposal cell attributed to wildlife grazing activity.
- During the 2024 Annual Inspection on September 26, a tear was discovered in the liner of Pond 4, the engineered solar evaporation pond. LM identified additional tears in the liner during a visual inspection, and repairs were scheduled for April 30.
- As a result of a power outage, the GRO system and Pond 4 Leachate Collection Removal System (LCRS) and Leak Detection System (LDS) were shut down. After power was restored both the LCRS and LDS pumped at an increased rate, exceeding the 7-day rolling average as reported to EPA regulators on March 26, 2025. Currently, there is no indication of a release to the environment. As a precaution, the GRO system will remain shut down to allow for evaluation, repairs, and coupon sampling activities.

## 2.0 MVP

LTS&M activities for the MVP consist of providing radiological control at excavations in Monticello site roadway and utility corridors, in Utah Department of Transportation (UDOT) rights-of-way within city limits, and at property MS-00176-VL (a privately owned supplemental standards property).

Surveillance results for this quarter are as follows:

- No anomalous conditions for the MVP remedy were noted.
- LM representatives continued to coordinate with city and UDOT officials via telecommunications regarding construction and excavation activities by the city, UDOT, and utility companies in roadway and utility corridors. LM follows the normal LTS&M protocol to provide radiological control in the affected roadways.
- A small amount of erosion was noticed during the 2023 Annual Inspection on the east side of the U.S. Highway 191 embankment at Montezuma Creek (a supplemental standards property). The erosion is near the top of the embankment near the highway right-of-way. The erosion area was scanned by the site Safety and Health technician for radiological contamination. No radiologically contaminated material was found. UDOT is aware of the erosion issue and has stabilized the erosion on the embankment until permanent repairs can be performed. Site personnel continue to monitor for excessive erosion.

- Two excavations occurred this quarter within roadway and utility corridors, as well as UDOT right-of-way areas. Radiological scanning was done on all excavations and no contaminated material was revealed.
- A surveillance survey of property MS-00176-VL identified no excessive erosion of supplemental standards material or violation of the land-use restriction on building construction.

## **3.0 MMTS**

LTS&M activities for the MMTS consist of (1) maintaining the onsite repository and operating the associated LCRS and LDS for the disposal cell and Pond 4, (2) surveillance of properties affected by groundwater-use and land-use ICs on the former Monticello mill (mill site) and peripheral properties, and (3) operation and maintenance of the OU III GRO system.

### **3.1 OU I**

OU I consists of the properties that contain the mill site and repository. Radioactively contaminated materials were removed from the MVP, the mill site, and peripheral properties (OU II) and encapsulated at the repository as a remedial action completed in 1999. LM owns and manages the repository, and the city owns the former mill site and manages it as a public park.

#### **3.1.1 Repository and Pond 4**

Monthly, quarterly, and annual inspections of the repository ensure that remedy controls remain intact and the waste remains isolated from the environment.

Inspection observations and maintenance activities for the quarter consisted of the following:

- No area of the repository cover showed settling, slumping, fracturing, seepage, ponding, or significant erosion.
- A single unusual surface irregularity was observed on the disposal cell during the monthly inspection on February 27, 2025, and was attributed to wildlife grazing activity. Site personnel are continuing to monitor the area.
- An anomalous condition was observed at Pond 4, the engineered solar evaporation pond. During the 2024 Annual Inspection on September 26, 2024, a tear was discovered in the liner above the water level. Since the 2024 Annual Inspection, additional holes above the water level have been identified and confirmed by a subcontractor. LM is currently coordinating with the subcontractor to perform the repairs and assess the overall condition of the liner. Surveillance checklists for this quarter are included as Appendix A.
- No new burrowing by voles and small ground squirrels was observed this quarter on the disposal cell and Pond 4 berm. However, during the 2024 Annual Inspection, a small amount of erosion was identified on the eastern side of Pond 4, though it does not require repair at this time. This area will continue to be monitored.

- The disposal cell LCRS and LDS were operated in accordance with the requirements specified in the LTS&M Plan. Findings for the disposal cell LCRS and LDS this quarter include the following:
  - Leachate production from the disposal cell was approximately 1506 gallons per week combined for sumps LCRS 1 and LCRS 2. There is no action level for the disposal cell LCRS. See Appendix B for a graphical depiction of leachate production history.
- The disposal cell LDS continues to receive no water; therefore, the disposal cell LDS action-level leakage rate was not exceeded.
- Operation of the OU III GRO system resulted in increased water collection in the Pond 4 LCRS. Pond 4 LCRS and LDS action-levels, approved by EPA and UDEQ, were formally developed in the *Repository and Pond 4 Groundwater Contingency Plan-Final* (DOE 1998) and are also found in Appendix D, Section 5.0 of the LTS&M Plan. The action-level leakage rate established for the Pond 4 LCRS is 851 gallons per acre per day (gpad) (2000 gallons per day), and the action leakage rate for the LDS is 20 gpad (47 gallons per day), which is averaged over a 7-day period. These action leakage rates are based on the area of the floor of Pond 4, which is 2.35 acres. Currently, the LCRS and LDS monitoring and pumping systems are functioning as designed to recirculate water back into Pond 4. Findings for the Pond 4 LCRS and LDS for this quarter are as follows:
  - Water collection at the Pond 4 LDS continued and exceeded the action level this quarter (Appendix B). The exceedance occurred when the LDS system pumped 451 gallons over a 12-hour period on March 25, 2025. A notification letter regarding the exceedance was sent to EPA and UDEQ on March 26, 2025. Corrective actions include scheduling a subcontractor to conduct evaluation, inspection, necessary repairs, and liner coupon sampling during the month of April.

### 3.1.2 TSF

A routine surveillance inspection of the TSF was not conducted during this reporting period. A comprehensive emergency inspection of the TSF was performed on April 16, 2025, to verify that the facility remains in proper working condition (see the surveillance checklists in Appendix A). Routine surveillance of the TSF ensures that the maintenance and radiological controls that govern the access to and placement, storage, and transfer of contaminated material in the TSF are current and effective. Surveillance during the April inspection revealed the following:

- The TSF cover, fencing, radiological controls, and signs have been maintained in accordance with the LTS&M Plan, and the TSF has been inspected and verified as being ready to receive contaminated materials

LM is required to initiate the transfer of TSF materials for permanent disposal at the Grand Junction, Colorado, Disposal Site when the contents reach a volume of approximately 75 cubic yards. Recent TSF activity consists of the following:

- Approximately 6.5 cubic yards of soil excavated from the city streets is currently stored in the TSF

### 3.1.3 Mill Site

LM conducts surveillance of the mill site (properties MP-00181-VL and MS-00893-OT) to ensure compliance with ICs implemented to preserve the OU I remedy for soil and groundwater. ICs applicable to the mill site include prohibitions on installing domestic-use wells in the alluvial aquifer, using the property for residential purposes, constructing habitable structures, and camping overnight, as well as preserving the property for day use as a public park.

Surveillance results for this quarter revealed:

- No nonconformance with water-use and land-use restrictions.
- Significant erosion on the walking paths in the Mill Site Recreational Area. Site personnel notified City of Monticello employees about this issue on October 17, 2024. City employees confirmed they were already aware of the erosion and plan to perform repairs in spring or summer 2025. A formal letter from LM that highlighted the erosion that had occurred on city-owned property and included maps and photographs for reference was emailed to the City of Monticello manager on January 6, 2025. All repairs on city-owned properties are the responsibility of the City of Monticello and are outside the jurisdiction and authority of LM.

## 3.2 OU II

OU II consists of private and city-owned properties peripheral to the mill site. LM conducts surveillance of OU II properties to verify compliance with ICs implemented to preserve the OU II remedy for soil and groundwater.

Surveillance results for this quarter are summarized below for the different components of OU II.

- **Montezuma Creek Restrictive Easement Area (supplemental standards properties, both city-owned and privately owned):** No evidence of nonconformance with land-use restrictions (e.g., prohibitions on soil removal and construction of habitable structures in supplemental standards properties) was observed.
- **Groundwater-Use Restrictions:** These were applied to several OU II properties under the 2000 quitclaim deed by which DOE transferred selected properties to the city. No evidence of nonconformance with these restrictions (e.g., prohibition on installing domestic-use wells in the alluvial aquifer) was observed.
- **Property MP-00211-VL (city-owned):** No evidence of nonconformance with the land-use restriction on building construction was observed.
- **Pinyon-Juniper Supplemental Standards Properties (city-owned):** No evidence of nonconformance with land-use and groundwater-use restrictions was observed. A small amount of erosion was observed near the GRO building during the 2024 Annual Inspection. Additionally, a small amount of radiologically contaminated material was detected, and site personnel are monitoring the area for any worsening conditions.
- **Excessive Erosion:** No storm events resulted in more than 2.8 inches of precipitation in 24 hours, which would require surveillance of supplemental standards cleanup properties for excessive erosion.

### 3.3 OU III

OU III consists of groundwater and surface water contamination resulting from operation of the mill site. Routine monitoring of OU III (water quality and water level) is normally performed semiannually in April (spring) and October (fall).

The contaminated groundwater is within the alluvial aquifer beneath the valley of Montezuma Creek, some sections of which are contaminated by the influent of contaminated groundwater. A portion of the aquifer is subject to ICs restricting use. Montezuma Creek is used for limited irrigation and livestock watering. There are currently no ICs in place to prevent surface water use; however, LM is actively developing ICs to prohibit its domestic use.

LM mailed certified letters on September 26, 2024, notifying potentially impacted property owners of existing ICs, associated restrictions, the intent to develop surface water ICs, and other conditions applicable to privately owned parcels. The notification addressed EPA's request to evaluate the use of Montezuma Creek surface water and assess the potential need for additional protections for domestic use of surface water in the area, ensuring the long-term protection of human health and the environment.

The current groundwater remedy includes (1) monitored natural attenuation with ICs and (2) P&T remediation by evaporation that was implemented as the GRO system in January 2015. Operation and performance of the groundwater remedy are reported annually. Previous remediation efforts have included (1) in situ treatment by zero-valent iron (ZVI) within a permeable reactive barrier (PRB) and (2) P&T remediation that used ex situ ZVI treatment. The ex situ ZVI treatment system was deactivated in December 2014 and replaced by the GRO system, which is described in greater detail in Section 3.3.2. The PRB remains a component of the GRO system as a groundwater flow barrier.

#### 3.3.1 Groundwater Restricted Area

During spring and fall, LM conducts surveillance of properties where groundwater contamination is present to ensure compliance with the groundwater-use restriction (i.e., no installation of domestic-use wells in the alluvial aquifer). The affected OU III properties constitute the Monticello Groundwater Restricted Area as defined and administered by the State of Utah Division of Water Rights. Surveillance found:

- No evidence of nonconformance with the groundwater-use restriction since its implementation in May 1999.

#### 3.3.2 OU III GRO System

The GRO system includes eight vertical extraction wells strategically placed in the AOA to extract contaminated groundwater and an associated monitoring system. The water from the extraction wells is transmitted in buried pipelines to an aboveground holding tank in the Groundwater Transfer Building; from there, it is pumped through a buried water transmission line for about 1 mile to Pond 4 for evaporation.

The associated monitoring system consists of 22 wells installed in the AOA. Sixteen of the 22 wells were installed south of Montezuma Creek in 2014, and 6 wells were installed north of

Montezuma Creek in 2017. These 22 monitoring wells are sampled recurrently following the extraction of approximately 1,000,000 gallons of water from the GRO system as stated in Section 1.5 of the *Remedial Action Completion Report for Operable Unit III Groundwater Contingency Remedy Optimization System, Monticello Mill Tailings Site, Monticello, Utah* (DOE 2016). A sampling event of 1,000,000 gallons was performed on October 15, 2024.

On August 7, 2023, a water transmission line leak was identified approximately 1360 feet southeast of the Groundwater Transfer Building on City of Monticello property. The leak was attributed to mechanical failure caused by ground subsidence. On October 25, 2023, site personnel conducted construction activities to repair the transmission line. On July 2, 2024, all soil samples were collected in accordance with the *Soil Sampling and Analysis Plan for Groundwater Transmission Line Leak, Monticello, Utah, Disposal and Processing Sites* (DOE 2024d) and the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites* (DOE 2024c). LM submitted the *Groundwater Transmission Line Leak Report for the Monticello, Utah, Disposal and Processing Sites* to EPA and UDEQ on February 10, 2025. LM is currently responding to comments received from both agencies on March 31, 2025.

The GRO system was temporarily shut down following a power outage on March 18, 2025. As a result, both the Pond 4 LCRS and LDS were without power until March 25, 2025. After power was restored, the LCRS experienced a substantial increase in pumping activity with approximately 10,000 gallons pumped on March 26, 2025. Due to the high volume of water in the LCRS, the LDS also collected and pumped additional water—451 gallons on March 25 and 198 gallons on March 26. This led to a 7-day rolling average of 119 gallons per day exceeding the LDS action level of 47 gallons per day, as reported to regulators on March 26, 2025. Currently, there is no indication of a release to the environment. As a precaution, the GRO system will remain shut down to allow for evaluation, repairs, and coupon sampling activities.

### **3.3.2.1 GRO System Quarterly Performance Summary**

The GRO system performance for the quarter is summarized here.

- Groundwater extracted during the quarter was approximately 473,334 gallons, equivalent to an average flow rate of 3.65 gallons per minute (gpm). Assuming the uranium concentration in groundwater extracted throughout the quarter was equal to the uranium concentration of the holding tank effluent on October 15, 2024 (the date of the most recent sample collected), approximately 1.3 pounds of uranium were removed during this quarter.
- During the quarter, the volume of water stored in Pond 4 increased by approximately 170,000 gallons. The GRO system operates by balancing the extraction rate and the Pond 4 evaporation rate while maintaining the Pond 4 storage volume between 5,000,000 and 8,000,000 gallons (the maximum storage volume of Pond 4 is approximately 15,600,000 gallons).
- Water-level monitoring during the quarter consisted of:
  - Continuous water-level monitoring in AOA extraction and monitoring wells using pressure transducers and dataloggers (programmed to record at 5-minute intervals) connected to the LM System Operation and Analysis at Remote Sites (SOARS) system.

- Cumulatively, the system has removed 34,945,902 gallons of contaminated groundwater from the aquifer since system startup in January 2015 (Table 1).
- Assuming a minimum AOA uranium plume pore volume of 2,400,000 gallons and a maximum pore volume of 3,300,000 gallons, the GRO system has removed between 10.6 and 14.5 pore volumes since system startup.
- From January 2015 through October 15, 2024, the GRO system removed approximately 165 pounds of uranium from the AOA aquifer (Table 2). Estimates of the cumulative uranium mass removed are updated only at sampling events.

*Table 1. GRO System Treatment: Monthly Volumes and Rates for This Quarter and Cumulative Volumes Since January 2015*

Calendar Month	Approximate Volume Pumped (millions of gallons)	Effective Pumping Rate (gpm)	Approximate Cumulative Volume (millions of gallons) <sup>a</sup>
January 2025	0.10	2.32	34.6
February 2025	0.19	4.65	34.8
March 2025	0.18	4.09	34.9

**Note:**

<sup>a</sup> Cumulative volume is based on the volume of groundwater extracted by the GRO system since system startup in January 2015.

*Table 2. Uranium Mass Removal from Groundwater in the AOA*

Tank Effluent Sample Date <sup>a</sup>	Effluent Tank Uranium Concentration (µg/L)	Volume Removed Between Tank Samples (millions of gallons)	Uranium Removed (pounds) <sup>b</sup>	Cumulative Mass of Uranium Removed (pounds) <sup>c</sup>
July 1, 2024	304	1.03	2.8	162
October 15, 2024	326	1.00	2.6	165

**Notes:**

<sup>a</sup> Sampling occurs following the extraction of approximately 1,000,000 gallons.

<sup>b</sup> Uranium removed since the last sampling event. The estimate is based on the median concentration between sampling dates.

<sup>c</sup> Since GRO system startup in January 2015. Estimates of cumulative mass removed are updated every sampling event.

**Abbreviation:**

µg/L = micrograms per liter

Monitoring and reporting guidelines for the GRO system are described in the *Final Groundwater Contingency Remedy Optimization Remedial Design/Remedial Action Work Plan for the Monticello Mill Tailings Site Operable Unit III, Monticello, Utah* (DOE 2014). Evaluation of water quality trends and whether remediation goals are being met, in the AOA and sitewide, is beyond the scope of this FFA quarterly report but is provided in annual groundwater reports submitted to EPA and UDEQ.

### 3.3.3 OU III Closure Strategy

Regarding the OU III closure strategy, LM submitted the *Draft Feasibility Study for the Operable Unit III, Monticello Mill Tailings Site, Monticello, Utah* (DOE 2024a) to EPA and UDEQ on August 7, 2024. EPA and UDEQ provided comments to LM on the draft Feasibility Study on January 21, 2025. LM is currently reviewing and addressing comments received during meetings with EPA and UDEQ. Several scenarios are being evaluated to develop a closure strategy for OU III; these are detailed in the *OU III Closure Strategy for the Monticello Mill Tailings Site, Monticello, Utah* (DOE 2018).

## 4.0 Schedule of Activities and Deliverables

Table 3 summarizes the completion dates of recently completed and near-term planned activities and deliverables for the Monticello NPL sites.

Table 3. Monticello Sites' Recent and Near-Term Activities and Deliverables

Activity or Deliverable	Schedule
<i>Monticello, Utah, National Priorities List (NPL) Sites Federal Facility Agreement (FFA) Quarterly Report: October 1–December 31, 2024</i> (DOE 2025b)	Submitted to EPA and UDEQ on February 18, 2025.
<i>Monticello Site Management Plan, Section 5.0, "Project Schedules and Milestones (FY 2024–FY 2026)"</i> (DOE 2024b)	Submitted to regulators on August 1, 2024. LM received approval via acceptance letters from UDEQ on October 3, 2024, and EPA on September 26, 2024.
CERCLA Sixth Five-Year Review reports for the MVP and MMTS: <ul style="list-style-type: none"> <li><i>Sixth Five-Year Review Report for Monticello Mill Tailings (USDOE) Site, San Juan County, Monticello, Utah</i> (DOE 2022b)</li> <li><i>Sixth Five-Year Review Report for Monticello Radioactively Contaminated Properties Superfund Site, San Juan County, Monticello, Utah</i> (DOE 2022c)</li> </ul>	Submitted to EPA and UDEQ on May 2, 2022.
<b>Five-Year Review addendum activities include the following:</b>	<b>Submittal and proposed dates for Five-Year Review addendum documents:</b>
Submittal and resolution of errata sheets	Errata sheets were resolved and submitted on April 6, 2023.
DOE to confirm human health risk evaluation using EPA Preliminary Remediation Goals calculator	Submitted on July 29, 2022.
LTS&M Plan clarification letter regarding Table 7	Letter submitted on March 2, 2023.
DOE to create and send an informational letter to landowners with deed restrictions that clearly explains the restrictions on their property	Letters were sent to landowners on December 19, 2022.
DOE to update the Uniform Federal Policy for the Quality Assurance Project Plan (DOE 2023), Sampling and Analysis Plan, Program Directive 2021-10-MNT, and LTS&M Plan (DOE 2022a) to be consistent regarding the monitoring well network	Update was submitted on April 5, 2023.
DOE to evaluate ecological risk to aquatic organisms and terrestrial wildlife using current Utah water quality standards	Ecological Risk Evaluation response to EPA and UDEQ comments was submitted to EPA and UDEQ on December 31, 2023. DOE received approval from EPA and UDEQ via email on February 1, 2024, requesting inclusion in the Feasibility Study.

Table 3. Monticello Sites' Recent and Near-Term Activities and Deliverables (continued)

Activity or Deliverable	Schedule
DOE to evaluate risk to human health and the environment using current Utah water quality standards	Submitted on December 31, 2023.
DOE to complete a Feasibility Study to evaluate the following: <ul style="list-style-type: none"> <li>• IC options to prevent human consumption of water from Montezuma Creek as a domestic drinking water source against the nine criteria of the National Contingency Plan</li> <li>• Remedial alternatives for achieving the water quality restoration Remedial Action Objectives</li> </ul>	Draft Feasibility Study was submitted on August 7, 2024.
DOE to complete a vulnerability and resilience assessment for Monticello sites, provide the assessment to EPA and UDEQ, and schedule a meeting to discuss findings	LM's assessments completed in 2019 and 2022, along with the current wildfire mitigation project, satisfy the requirements of this deliverable, as documented in an EPA email dated March 3, 2025.
DOE to complete notification to potentially affected property owners regarding existing institutional controls (ICs), associated restrictions, the intent to establish surface water ICs, and other conditions applicable for privately-owned parcels	DOE mailed certified notification letters on September 26, 2024.
DOE to complete a letter to Utah Division of Water Rights (UDWR) for inclusion of Montezuma Creek surface water into Area of Concern (AOC) Program	Draft AOC letter will be provided to regulators for review in July 2025 before being submitted to UDWR.
DOE received the Addendum to the Monticello Mill Tailings Five-Year Review Report, dated December 17, 2024	DOE provided comments on the EPA written Addendum on February 5, 2025.
Near-Term Activities and Deliverables	Schedule
Revising the <i>Quality Assurance Project Plan, Monticello, Utah, Disposal and Processing Sites</i> (DOE 2023)	The updated Quality Assurance Project Plan will be submitted in spring 2025.
Spring semiannual groundwater and surface water sampling event	Sampling event is scheduled for the week of April 21, 2025.
1,000,000-gallon sampling event (AOA wells and Pond 4)	Completed on October 14–17, 2024.

## 5.0 References

42 USC 9601 et seq. “Comprehensive Environmental Response, Compensation, and Liability Act” as amended, *United States Code*.

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DOE (U.S. Department of Energy), 2024b. *Monticello Site Management Plan, Section 5.0, "Project Schedules and Milestones (FY 2024–FY 2026)"*, Office of Legacy Management, August.

DOE (U.S. Department of Energy), 2024c. *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites*, LMS/PRO/S04351-16.8, Office of Legacy Management, December.

DOE (U.S. Department of Energy), 2024d. *Soil Sampling and Analysis Plan for Groundwater Transmission Line Leak, Monticello, Utah, Disposal and Processing Sites*, LMS/MNT/46277, Office of Legacy Management, April.

DOE (U.S. Department of Energy), 2025a. *Monticello Mill Tailings Site Operable Unit III Annual Groundwater Report, May 2023–April 2024*, LMS/MNT/48837, Office of Legacy Management, February.

DOE (U.S. Department of Energy), 2025b. *Monticello, Utah, National Priorities List (NPL) Sites Federal Facility Agreement (FFA) Quarterly Report: October 1–December 31, 2024*, LMS/MNT/50083, Office of Legacy Management, February.

## **Appendix A**

### **Monthly and Quarterly Surveillance Checklists**

# Monthly Pond 4 Surveillance Checklist

Level of water in Pond 4 6.66 ft

Inspection Item	Acceptable		Comments and Recommendation
	Yes	No	
<b>Condition of:</b>			
Fences, gates, and locks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Visible piping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Visible liner and anchors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Rescue equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Boat remains at pond.
<b>Evidence of erosion of:</b>			
Top of Pond 4 berm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pond 4 sideslopes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ditches	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Surrounding area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Seepage from Pond 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Overtopping of Pond 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Evidence of:</b>			
Vandalism	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Intrusion by wildlife	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Intrusion by humans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Accumulation of trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Additional comments:** Pon fully frozen across the surface. Hose still stuck in Pond, tear in East bank cover still visible.

Monticello LM Representative: CALEB BAILEY (Affiliate) Digitally signed by CALEB BAILEY (Affiliate) Date: 2025.01.30 13:37:04 -07'00' Date: 1/30/2025



MONTHLY CLIMATOLOGICAL SUMMARY for JAN. 2025

NAME: OFFICE CITY: STATE:  
 ELEV: 0 ft LAT: LONG:

TEMPERATURE (°F), RAIN (in), WIND SPEED (mph)

DAY	MEAN TEMP	HIGH	TIME	LOW	TIME	HEAT DEG DAYS	COOL DEG DAYS	RAIN	AVG WIND SPEED	HIGH	TIME	DOM DIR
1	26.6	36.1	12:00p	16.1	2:30a	38.4	0.0	0.00	6.7	28.0	9:30p	SSE
2	33.8	45.6	3:00p	23.3	6:30a	31.2	0.0	0.00	5.2	17.0	1:00a	SE
3	40.8	47.4	1:30p	31.1	2:30a	24.2	0.0	0.00	9.7	21.0	5:00a	S
4	34.4	42.7	12:30a	25.7	12:00m	30.6	0.0	0.00	12.4	37.0	3:00p	WNW
5	28.2	35.6	3:00p	20.8	4:30a	36.8	0.0	0.00	8.9	23.0	2:00p	NW
6	28.2	37.6	2:30p	22.8	7:00a	36.8	0.0	0.00	3.9	15.0	2:30p	WNW
7	27.5	31.3	1:00p	23.9	6:30a	37.5	0.0	0.00	8.4	21.0	3:00p	NW
8	27.1	36.2	2:00p	21.5	7:30p	37.9	0.0	0.00	4.6	18.0	1:00p	NNW
9	24.9	32.4	2:30p	18.7	12:00m	40.1	0.0	0.00	17.5	35.0	6:00a	NW
10	25.5	35.9	3:00p	18.6	12:30a	39.5	0.0	0.00	9.5	28.0	3:30a	NW
11	26.7	33.1	4:00p	20.1	12:00m	38.3	0.0	0.00	9.5	37.0	9:30a	NNW
12	23.0	31.0	2:00p	17.4	7:00a	42.0	0.0	0.00	7.3	20.0	10:30a	WNW
13	20.8	29.4	12:00p	12.5	7:30a	44.2	0.0	0.00	5.6	20.0	2:30p	SE
14	21.3	31.4	3:30p	13.2	4:30a	43.7	0.0	0.00	7.0	21.0	1:00p	WNW
15	25.7	39.2	3:30p	13.4	5:00a	39.3	0.0	0.00	4.9	16.0	11:30a	NNW
16	28.5	44.0	2:30p	15.3	11:30p	36.5	0.0	0.00	5.0	21.0	2:00p	W
17	28.0	42.3	2:30p	15.3	8:00a	37.0	0.0	0.00	3.4	14.0	3:30p	W
18	20.0	31.4	1:30a	9.7	9:30p	45.0	0.0	0.00	12.7	37.0	9:00a	WNW
19	16.0	24.9	3:00p	5.2	7:30a	49.0	0.0	0.00	4.3	23.0	5:00p	WNW
20	13.5	18.4	1:30p	2.1	11:00p	51.5	0.0	0.00	12.2	31.0	10:00a	NW
21	15.0	33.2	2:30p	1.3	7:30a	50.0	0.0	0.00	4.2	17.0	4:30p	SSE
22	19.8	30.0	11:30a	8.1	6:00a	45.2	0.0	0.00	10.1	36.0	1:30p	NW
23	18.3	28.2	2:30p	10.5	9:00p	46.7	0.0	0.00	7.8	23.0	3:30a	NW
24	22.8	34.0	3:30p	9.6	7:00a	42.2	0.0	0.00	8.6	38.0	11:30a	SSE
25	31.8	39.0	12:00p	19.5	7:00a	33.2	0.0	0.00	7.2	28.0	11:30a	SSE
26	30.8	42.8	1:30p	21.7	6:00a	34.2	0.0	0.00	5.1	19.0	10:30a	S
27	32.0	47.1	1:30p	21.2	6:30a	33.0	0.0	0.00	4.1	18.0	2:00p	WSW
28	32.0	42.6	5:00p	18.1	7:00a	33.0	0.0	0.00	4.9	21.0	1:00p	SSE
29	29.6	39.5	12:00p	17.2	12:00m	35.4	0.0	0.00	4.4	19.0	1:30p	SSE
30	30.1	44.1	2:30p	11.1	6:00a	34.9	0.0	0.00	7.6	30.0	1:30p	WNW
31	35.8	47.5	3:00p	23.7	6:30a	29.2	0.0	0.00	8.4	26.0	1:30p	SE
	26.4	47.5	31	1.3	21	1196.5	0.0	0.00	7.5	38.0	24	NW

Max >= 90.0: 0  
 Max <= 32.0: 9  
 Min <= 32.0: 31  
 Min <= 0.0: 0  
 Max Rain: 0.00 ON 01/01/25  
 Days of Rain: 0 (>.01 in) 0 (>.1 in) 0 (>1 in)  
 Heat Base: 65.0 Cool Base: 65.0 Method: Integration

# Monthly Pond 4 Surveillance Checklist

Level of water in Pond 4 6.86 ft

Inspection Item	Acceptable		Comments and Recommendation
	Yes	No	
<b>Condition of:</b>			
Fences, gates, and locks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Visible piping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Visible liner and anchors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Tear in liner on East wall of Pond.
Rescue equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Boat remains at pond.
<b>Evidence of erosion of:</b>			
Top of Pond 4 berm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pond 4 sideslopes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ditches	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Surrounding area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Seepage from Pond 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Overtopping of Pond 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Evidence of:</b>			
Vandalism	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Intrusion by wildlife	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Gopher hole between road and liner.
Intrusion by humans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Accumulation of trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Additional comments:** Sampling hose still stuck in pond.

Monticello LM Representative: CALEB BAILEY (Affiliate) Digitally signed by CALEB BAILEY (Affiliate) Date: 2025.02.27 15:30:54 -07'00' Date: 2/27/2025

# Repository Area Surveillance Checklist

- Monthly surveillance   
  Quarterly surveillance:   
  February   
  May   
  August   
  November  
 Storm event triggered surveillance due to \_\_\_\_\_ inches of rainfall over the past 24 hours.

Inspection Item	Acceptable		Comments and Recommendation
	Yes	No	
<b>Condition of:</b>			
Fences, gates, and locks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fixed three fence stays between P19-P22.
Roads <sup>a</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Site monuments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Drainage ditches <sup>a</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Manholes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Patch of heavy grazing by wildlife found on top of cell.
<b>Evidence of erosion of:</b>			
Top of disposal cell <sup>a</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Disposal cell sideslopes <sup>a</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ditches	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Surrounding area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Evidence of:</b>			
Vandalism	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Intrusion by livestock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Burrowing animal damage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Intrusion by humans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Accumulation of trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cleaned up trash along fence line near P32 and P1.

### Additional Quarterly Surveillance Requirements

**Note:** All transects, shown in Figure 3-1, must be walked during this inspection.

<b>Condition of:</b>			
Settlement plate structures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Manholes <sup>b</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sediment ponds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Evidence of:</b>			
Structural instability	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

### Additional comments:

Signature: CALEB BAILEY (Affiliate)     
 Digitally signed by CALEB BAILEY (Affiliate)     
 Date: 2025.02.28 08:19:19 -07'00'     
 Date: 2/28/2025  
 Monticello LM Representative

<sup>a</sup>Inspections required following a significant storm event

<sup>b</sup>Open to inspect quarterly

MONTHLY CLIMATOLOGICAL SUMMARY for FEB. 2025

NAME: OFFICE CITY: STATE:  
 ELEV: 0 ft LAT: LONG:

TEMPERATURE (°F), RAIN (in), WIND SPEED (mph)

DAY	MEAN		TIME	LOW	TIME	HEAT	COOL	RAIN	AVG		TIME	DOM
	TEMP	HIGH				DEG	DEG		WIND	HIGH		
1	39.4	46.9	3:30p	33.3	8:00a	25.6	0.0	0.00	12.7	34.0	2:30p	S
2	45.1	53.9	2:30p	37.5	5:30a	19.9	0.0	0.00	14.2	33.0	12:30p	SE
3	45.1	57.5	2:30p	34.4	7:30a	19.9	0.0	0.00	10.0	31.0	3:30p	ESE
4	46.5	55.9	3:00p	34.1	5:30a	18.5	0.0	0.00	8.9	31.0	2:30p	S
5	45.2	56.6	2:00p	35.4	7:30a	19.8	0.0	0.00	10.6	28.0	1:00p	S
6	43.4	52.0	3:30p	30.0	7:30a	21.6	0.0	0.00	11.7	41.0	5:00p	SSE
7	43.9	53.5	4:00p	33.4	7:00a	21.1	0.0	0.00	12.3	35.0	4:00p	SSW
8	38.0	48.2	2:30p	29.1	12:00m	27.0	0.0	0.00	7.7	25.0	1:30p	SSW
9	32.5	43.8	4:00p	23.8	6:30a	32.5	0.0	0.00	6.5	17.0	12:30a	NW
10	37.0	48.3	2:30p	30.0	1:00a	28.0	0.0	0.00	6.6	26.0	1:30p	SE
11	31.8	41.3	2:00p	17.0	12:00m	33.2	0.0	0.00	10.3	36.0	9:00p	ESE
12	19.0	31.2	4:00p	6.0	7:30a	46.0	0.0	0.00	5.1	19.0	4:00a	NW
13	25.1	35.4	2:30p	9.8	1:30a	39.9	0.0	0.00	9.8	30.0	12:00p	SSE
14	32.3	40.1	3:00p	26.3	10:30p	32.7	0.0	0.14	7.9	27.0	12:30a	S
15	27.9	36.0	2:30p	18.5	11:00p	37.1	0.0	0.01	8.4	36.0	11:30a	NW
16	27.7	36.9	3:30p	13.7	6:30a	37.3	0.0	0.00	7.5	25.0	2:00p	SSE
17	35.7	44.1	3:00p	29.2	7:00a	29.3	0.0	0.00	9.8	24.0	5:00a	SE
18	31.8	39.5	3:30p	23.9	10:00p	33.2	0.0	0.00	7.0	22.0	1:00p	NW
19	31.7	41.5	3:00p	18.0	5:30a	33.3	0.0	0.00	4.6	14.0	3:30p	SE
20	34.0	43.6	2:00p	25.1	2:30a	31.0	0.0	0.00	7.0	24.0	3:30p	NW
21	32.0	39.5	3:00p	26.5	4:00a	33.0	0.0	0.00	8.8	23.0	8:00a	NW
22	35.5	48.5	3:30p	24.7	3:30a	29.5	0.0	0.00	5.6	18.0	1:30p	NNW
23	40.7	51.8	4:00p	27.3	5:00a	24.3	0.0	0.00	4.4	14.0	9:30a	WSW
24	44.5	56.3	3:00p	33.7	5:30a	20.5	0.0	0.00	6.1	20.0	9:30a	WSW
25	48.7	59.6	3:30p	39.5	12:30a	16.3	0.0	0.00	5.8	19.0	11:30a	SE
26	37.2	43.3	12:30a	29.5	12:00m	27.8	0.0	0.00	14.1	35.0	9:00a	NW
27	37.4	50.6	3:30p	28.0	6:30a	27.6	0.0	0.00	6.1	17.0	2:00a	WNW
28	42.4	55.8	4:00p	31.0	6:00a	22.6	0.0	0.00	5.8	22.0	1:00p	NNW
	36.8	59.6	25	6.0	12	788.5	0.0	0.15	8.4	41.0	6	NW

Max >= 90.0: 0  
 Max <= 32.0: 1  
 Min <= 32.0: 20  
 Min <= 0.0: 0

Max Rain: 0.14 ON 02/14/25

Days of Rain: 1 (>.01 in) 1 (>.1 in) 0 (>1 in)

Heat Base: 65.0 Cool Base: 65.0 Method: Integration

# Monthly Pond 4 Surveillance Checklist

Level of water in Pond 4 6.83 ft

Inspection Item	Acceptable		Comments and Recommendation
	Yes	No	
<b>Condition of:</b>			
Fences, gates, and locks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Visible piping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Visible liner and anchors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Noticeable holes in liner around GRO outlet.
Rescue equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Boat remains at pond.
<b>Evidence of erosion of:</b>			
Top of Pond 4 berm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pond 4 sideslopes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ditches	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Surrounding area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Seepage from Pond 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Overtopping of Pond 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Evidence of:</b>			
Vandalism	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Intrusion by wildlife	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Intrusion by humans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Accumulation of trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Additional comments:** Sampling hose still stuck in Pond. Tear in East bank cover still visible, along with new holes near GRO outlet, Simbeck & Associates on site 04/04/25 for Pond 4 liner inspection.

Monticello LM Representative: CALEB BAILEY (Affiliate) Digitally signed by CALEB BAILEY (Affiliate) Date: 2025.03.31 16:10:59 -06'00' Date: 3/31/2025

# Repository Area Surveillance Checklist

- Monthly surveillance   
  Quarterly surveillance:   
  February   
  May   
  August   
  November  
 Storm event triggered surveillance due to \_\_\_\_\_ inches of rainfall over the past 24 hours.

Inspection Item	Acceptable		Comments and Recommendation
	Yes	No	
<b>Condition of:</b>			
Fences, gates, and locks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Roads <sup>a</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Site monuments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Drainage ditches <sup>a</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Manholes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<b>Evidence of erosion of:</b>			
Top of disposal cell <sup>a</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Disposal cell sideslopes <sup>a</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Ditches	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Surrounding area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<b>Evidence of:</b>			
Vandalism	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Intrusion by livestock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Burrowing animal damage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Intrusion by humans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Accumulation of trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Collected trash along Western Fenceline.

## Additional Quarterly Surveillance Requirements

**Note:** All transects, shown in Figure 3-1, must be walked during this inspection.

<b>Condition of:</b>			
Settlement plate structures	<input type="checkbox"/>	<input type="checkbox"/>	_____
Manholes <sup>b</sup>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Sediment ponds	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Evidence of:</b>			
Structural instability	<input type="checkbox"/>	<input type="checkbox"/>	_____

## Additional comments:

Signature: CALEB BAILEY (Affiliate)     
 Digitally signed by CALEB BAILEY (Affiliate)  
 Date: 2025.03.31 16:14:07 -06'00'     
 Date: 3/31/2025  
 Monticello LM Representative

<sup>a</sup>Inspections required following a significant storm event

<sup>b</sup>Open to inspect quarterly

MONTHLY CLIMATOLOGICAL SUMMARY for MAR. 2025

NAME: test CITY: STATE:  
 ELEV: 0 ft LAT: LONG:

TEMPERATURE (°F), RAIN (in), WIND SPEED (mph)

DAY	MEAN TEMP	HIGH	TIME	LOW	TIME	HEAT DEG DAYS	COOL DEG DAYS	RAIN	AVG WIND SPEED	HIGH	TIME	DOM DIR
1	45.6	59.1	2:00p	30.1	7:30a	19.4	0.0	0.00	4.9	21.0	2:30p	WSW
2	45.4	55.8	3:00p	33.3	6:00a	19.6	0.0	0.00	8.7	28.0	4:30p	SSE
3	30.7	36.0	2:30p	27.2	6:30a	34.3	0.0	0.01	6.5	32.0	11:00a	S
4	35.5	44.5	4:30p	29.8	4:00a	29.5	0.0	0.00	13.2	33.0	11:30a	WNW
5	39.2	48.5	2:00p	26.0	3:30a	25.8	0.0	0.00	6.1	27.0	12:00m	SSE
6	34.6	44.6	12:30a	25.6	12:00m	30.4	0.0	0.04	14.1	41.0	3:00p	S
7	31.1	40.3	3:30p	17.2	7:00a	33.9	0.0	0.00	7.6	25.0	11:30p	SSE
8	33.8	42.4	4:00p	25.9	7:00a	31.2	0.0	0.01	15.3	34.0	8:00a	NW
9	40.5	55.7	4:00p	25.6	7:30a	23.5	0.0	0.00	4.5	17.0	4:30p	SW
10	42.2	54.9	4:00p	28.8	2:00a	22.8	0.0	0.00	8.3	27.0	1:00p	SSE
11	41.9	53.5	4:00p	32.7	7:00a	23.1	0.0	0.00	7.3	28.0	4:30p	SSE
12	40.5	50.1	5:00p	28.2	7:00a	24.5	0.0	0.00	8.4	29.0	3:30p	SSE
13	38.4	45.0	5:00p	30.2	12:00m	26.6	0.0	0.07	11.5	39.0	8:00p	SSE
14	30.0	36.9	4:00p	23.1	7:30a	35.0	0.0	0.00	8.9	30.0	11:30a	S
15	30.0	38.8	3:30p	23.8	6:30a	35.0	0.0	0.01	5.6	31.0	2:30p	NW
16	36.0	49.0	4:30p	22.6	7:30a	29.0	0.0	0.00	7.7	28.0	2:00p	SSE
17	45.3	53.3	2:30p	36.8	3:30a	19.7	0.0	0.00	13.4	35.0	11:00a	S
18	33.3	43.4	12:30a	24.1	12:00m	31.7	0.0	0.00	15.8	51.0	4:30p	WNW
19	27.5	37.0	4:30p	21.2	7:00a	37.5	0.0	0.00	12.7	37.0	1:30a	WNW
20	33.1	45.3	4:00p	21.0	2:00a	31.9	0.0	0.00	6.8	29.0	1:30p	WSW
21	38.5	51.3	3:30p	25.1	5:30a	26.5	0.0	0.00	6.2	22.0	1:30p	NW
22	45.5	55.8	5:00p	33.8	7:30a	19.5	0.0	0.00	7.9	21.0	4:00a	SE
23	45.2	55.4	3:00p	38.4	5:00a	19.8	0.0	0.00	12.8	27.0	1:30p	NW
24	50.2	61.7	4:00p	37.8	7:30a	14.8	0.0	0.00	9.8	24.0	3:30a	NW
25	53.8	67.7	4:00p	39.5	6:00a	11.4	0.2	0.00	5.5	18.0	3:00p	WNW
26	55.5	70.9	3:30p	39.2	7:30a	10.2	0.6	0.00	6.7	23.0	12:30p	SSE
27	57.0	68.0	4:00p	43.6	3:00a	8.4	0.4	0.00	7.4	26.0	2:00p	S
28	49.6	57.2	12:30a	41.4	12:00m	15.4	0.0	0.00	9.7	27.0	12:30a	SSE
29	44.1	53.7	4:30p	36.0	7:30a	20.9	0.0	0.00	9.4	30.0	9:30p	S
30	39.7	48.4	6:30p	32.5	6:30a	25.3	0.0	0.00	6.8	25.0	12:30a	SSW
31	45.9	57.2	4:30p	34.2	7:30a	19.1	0.0	0.00	12.9	33.0	11:00a	SSW
-----												
	40.6	70.9	26	17.2	7	755.7	1.2	0.14	9.1	51.0	18	SSE

Max >= 90.0: 0  
 Max <= 32.0: 0  
 Min <= 32.0: 18  
 Min <= 0.0: 0

Max Rain: 0.07 ON 03/13/25

Days of Rain: 2 (>.01 in) 0 (>.1 in) 0 (>1 in)

Heat Base: 65.0 Cool Base: 65.0 Method: Integration

## **Appendix B**

### **Graphs Showing Performance History for Disposal Cell and Pond 4 LCRS and LDS**

Graphs Showing Performance History for Disposal Cell and Pond 4 LCRS and LDS

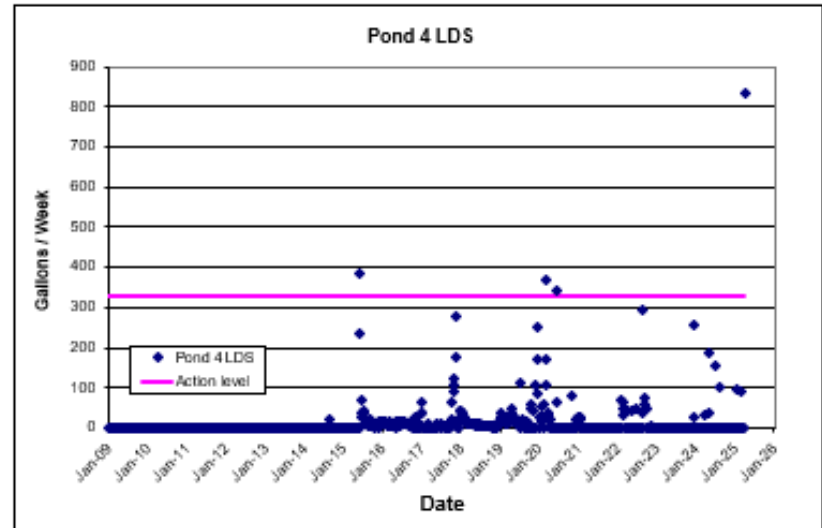
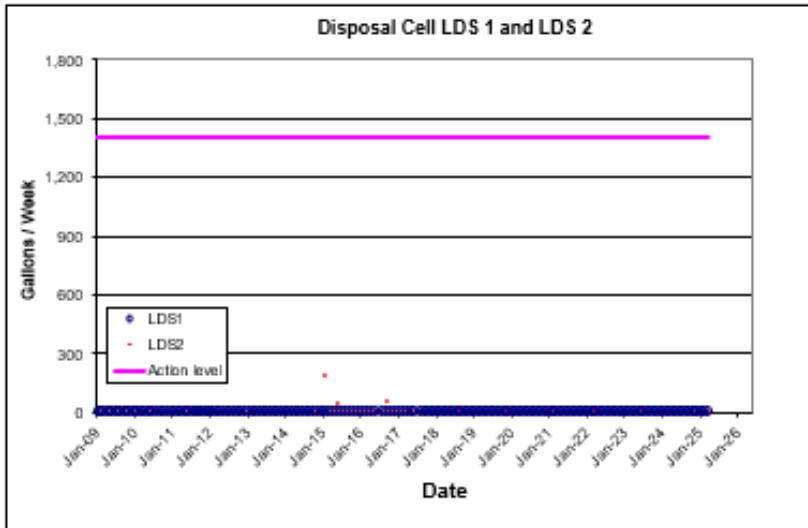
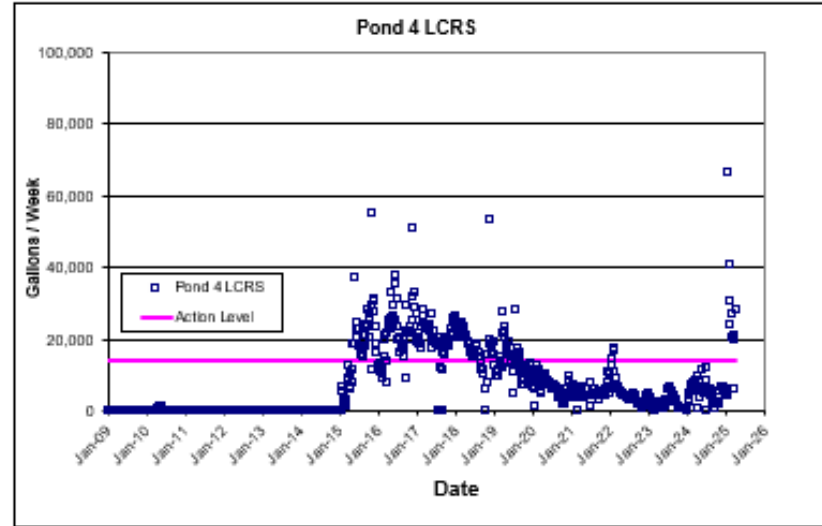
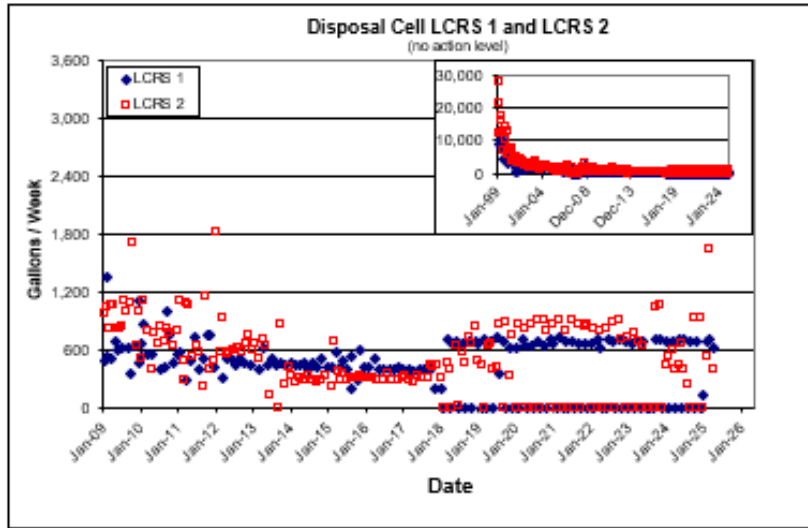


Figure B-1. Graphs Showing Performance History for Disposal Cell and Pond 4 LCRS and LDS