Department of Energy
Washington, DC 20585

September 28, 2015

MEMORANDUM FOR: **ANDREW C. LAWRENCE, DIRECTOR**
OFFICE OF ENVIRONMENTAL PROTECTION, SUSTAINABILITY SUPPORT AND CORPORATE SAFETY ANALYSIS
OFFICE OF ASSOCIATE UNDER SECRETARY FOR ENVIRONMENT, HEALTH, SAFETY AND SECURITY

FROM: **RUSSEL EDGE, ACTING DIRECTOR** RE
OFFICE OF SITE OPERATIONS
OFFICE OF LEGACY MANAGEMENT

SUBJECT: Annual Site Environmental Reporting for Department of Energy Office of Legacy Management Sites (2014)

The U.S. Department of Energy Office of Legacy Management (LM) is submitting the attached *Office of Legacy Management's Summary of Annual Site Environmental Reports* for calendar year 2014 to meet the intent of DOE Order 231.1B with a scaled-down approach as identified in the Annual Site Environmental Report (ASER) preparation guidance. LM is committed to ensuring environmental protection, compliance, sustainability and the LM Site's efforts to ensure the validity and accuracy of the monitoring data.

Please review the summary and attachments and contact Tracy Ribeiro at (303) 410-4817 if you have any comments or questions.

Attachment

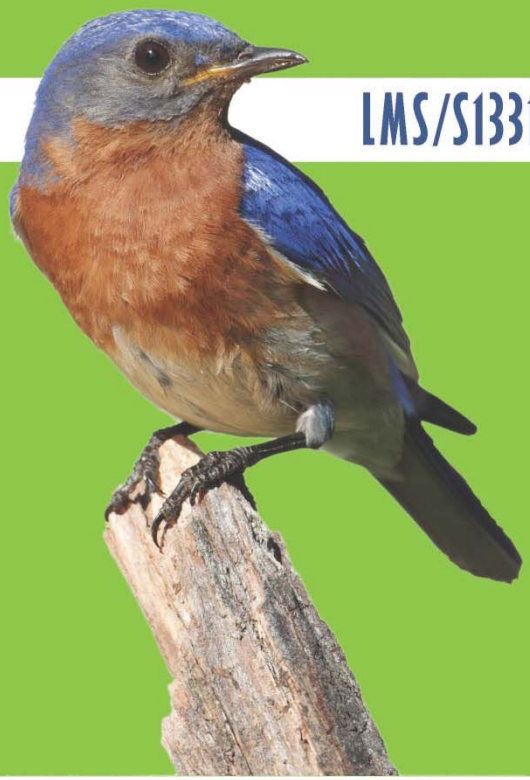
cc w/ attachment:
R. Natoli, DOE-AU-20 (e)
D. Geiser, DOE-LM (e)
T. Ribeiro, DOE-LM (e)
D. Shafer, DOE-LM (e)
S. Osborn, SN3 (e)
File: ADM 0115.02 (rc grand junction)

LM20.3\Ribeiro\8-24-15 ASER Summary Memo (Lawrence)

U.S. DEPARTMENT OF ENERGY | Legacy Management

Summary of Annual Site Environmental Reports

Calendar Year 2014



LMS/S13312

Cover photo captions:
Top left: Monitor well drilling and installation at the Central Nevada Test Area.
Bottom left: Groundwater monitoring and sampling at the Weldon Spring, Missouri, Site.
Right insert: Eastern bluebird, a common species at the Fernald Preserve, Ohio, Site, whose population is increasing in part due to the use of nest boxes.

Contents

Attachment

This page intentionally left blank

1.0 Reporting Requirement

U.S. Department of Energy (DOE) Order 231.1B, *Environment, Safety and Health Reporting*, requires that each DOE site prepare an Annual Site Environmental Report (ASER) documenting the site's environmental conditions and compliance with DOE reporting requirements. The ASER is submitted to DOE Headquarters annually and is available to the public. DOE's *Guidance for the Preparation of the 2014 Department of Energy Annual Site Environmental Reports* for calendar year (CY) 2014, dated June 2015, recognizes that Office of Legacy Management (LM) sites have unique characteristics and suggests two alternatives to the preparation of the ASER: (1) prepare a scaled-down or streamlined version of the ASER that reflects the current nature and extent of site operations and monitoring programs, or (2) submit equivalent documentation that provides the results of the relevant environmental monitoring programs. This report is submitted to meet the intent of DOE Order 231.1B with a scaled-down approach, as identified in the ASER preparation guidance, by summarizing LM's programmatic and site-specific environmental reporting efforts.

2.0 Background

LM was established in 2003 to manage DOE's postclosure responsibilities at sites under DOE's care and ensure the future protection of human health and the environment at those sites. The histories of the legacy sites vary, as do the regulatory regimes under which the sites are managed. Long-term surveillance plans (LTSPs) are prepared for about sixty percent of LM sites. These LTSPs, which are available to the public, include site descriptions, information about site history, nature and extent of contamination, closeout condition of the site, present and future monitoring and surveillance programs, and institutional controls. Examples of the types of sites and their regulatory framework are provided below and in the following link: http://www.lm.doe.gov/pro_doc/references/framework.htm.

- LM currently manages sites where remediation was conducted in accordance with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or Resource Conservation and Recovery Act (RCRA) regulations. These sites were radiologically or chemically contaminated by federal milling, processing, research, or weapons-manufacturing operations. LM managed eight CERCLA/RCRA sites during the reporting period.
- Underground nuclear testing was conducted at sites in five states for various purposes, including stimulating natural gas production and cataloging seismic detonation signatures. The Nevada Offsites refers to the sites where underground nuclear tests and experiments were performed outside of the Nevada National Security Site (formerly the Nevada Test Site). LM managed nine Nevada Offsites during the reporting period.
- The Uranium Mill Tailings Radiation Control Act (UMTRCA) of 1978 (Title 42 *United States Code* Section 7901, as amended) provides for the remediation and regulation of uranium mill tailings at uranium mill sites addressed under Title I and Title II of UMTRCA. Title I sites are former uranium mill sites unlicensed and essentially abandoned before UMTRCA was implemented on January 1, 1978. LM managed 21 UMTRCA Title I sites during the reporting period. Title I of UMTRCA designated inactive uranium-ore-processing sites for remediation by DOE. Remediation of these sites resulted in the creation of

19 disposal cells that contain encapsulated uranium mill tailings and associated contaminated material. Title II of UMTRCA addresses reclamation of uranium mill sites that were under specific license on or after January 1, 1978. LM managed six UMTRCA Title II sites during the reporting period. The number will increase as ongoing site reclamations are completed and the sites are transferred from private licensees by the U.S. Nuclear Regulatory Commission (NRC) to LM for long-term surveillance and maintenance (LTS&M).

- DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission operations. DOE assessed more than 600 candidate facilities and determined that 46 would require remediation. DOE remediated 25 sites by 1997; Congress directed the U.S. Army Corps of Engineers (USACE) to remediate the remaining 21 designated FUSRAP sites. Remediation of FUSRAP sites follows CERCLA protocols. When USACE completes remediation of a site, it is transferred to LM's responsibility. LM managed 30 FUSRAP sites during the reporting period.
- DOE established the Defense Decontamination and Decommissioning (D&D) Program for the surveillance and maintenance of surplus DOE facilities, including the performance of any necessary decommissioning and decontamination activities. LM managed five sites in the D&D Program during the reporting period.
- Other LM activities include supporting the development and maintenance of five calibration facilities for environmental radiation sensors; managing the Uranium Leasing Program (ULP), which includes administrative monitoring and inspections of 31 lease tracts within southwestern Colorado; and supporting the operation of the Environmental Sciences Laboratory, which performs applied research and demonstrations of soil and groundwater remediation and treatment technologies.

3.0 Summary of General Environmental Reporting

3.1 Oversight

All of the legacy sites and activities have an assigned LM site manager or program manager to ensure that the regulatory regime for the site is followed, oversee the long-term activities of the site, and address stakeholder concerns. All reports, including environmental monitoring reports, are reviewed by the site or program manager (or designee), team lead (or designee), or both. The information is thoroughly reviewed to ensure that accurate data are being reported.

3.2 Summary of Site-Specific Activities

During calendar year 2014, LM managed the long-term care of 90 sites. LM classifies the sites into one of three categories based on the actual or anticipated LTS&M activities associated with that site. The sites and their respective categories are listed in the LM *Site Management Guide* (Update 17, January 2015), which is updated annually and available at http://energy.gov/lm/downloads/site-management-guide. Each geographic site location is counted as one site in the LM *Site Management Guide,* including those locations having both a former processing site and a disposal site. Typically, the lower (smaller) the category number assigned to the site, the fewer activities and less environmental monitoring occur at the site,

resulting in less documentation and reporting. Tables 1 through 4 in Attachment 1 summarize the associated monitoring and reporting performed for each site. Primary stakeholders, including state and federal regulators for the site type, are generally sent copies or notices of electronic availability when annual inspection and monitoring reports are issued. The majority of the information identified in the tables is available on site-specific websites that can be accessed from the main LM website (http://www.lm.doe.gov/default.aspx?id=120) or from the site-specific links provided in Attachment 1 of this report. LM is providing Attachment 1 as a summary of the environmental reporting. Any additional information is available upon request.

The three categories and count of LM sites currently within that category are:

1. Category 1 sites, listed in Table 1, which are expected to require records-related activities and stakeholder support.
    - 39 sites.
    - Stakeholders have online access to historical information about these sites.
    - Environmental monitoring data is not collected for these sites.
    - Information on these sites will not be reported annually unless a change occurs in the activity level at these sites.
2. Category 2 sites, listed in Table 2, which are expected to require routine inspections and maintenance, records-related activities, and stakeholder support.
    - 42 sites.
    - Annual site inspections and any required maintenance are completed.
    - Monitoring results are available to the public.
    - Stakeholders are informed of site activities.
3. Category 3 sites, listed in Table 3, which are expected to require operation and maintenance of active remedial action systems, routine inspections and maintenance, records-related activities, and stakeholder support.
    - 9 sites.
    - Annual site inspections and any required maintenance are completed.
    - Sampling is completed.
    - Includes RCRA, CERCLA, and UMTRCA Title I sites.
    - Includes sites with active treatment systems for contaminated groundwater and surface water.
    - Multiple reports are periodically issued.
    - Stakeholders are informed of site activities.

4.0 Summary of Environmental Management System (EMS) and Sustainability Reports

As required by prior DOE Orders and DOE Order 436.1, *Departmental Sustainability*, LM has a fully implemented EMS. The LM EMS encompasses all LM sites under cleanup custody, and federal and contractor facilities where work is managed throughout the United States. The LM EMS public website, found at http://www.lm.doe.gov/Office_of_Site_Operations/Environmental_Management_System.aspx, describes the EMS and provides links to many of the documents and reports identified in this section.

The LM EMS was implemented in October 2005. Full implementation of the EMS was declared by June 30, 2009. As required by DOE Order 436.1, LM had an audit by an external third party in early 2012 and LM verified the full implementation of the EMS on June 7, 2012.

The LM EMS is consistent with the framework of the International Organization for Standardization (ISO) 14001, *Environmental Management System*, and the Integrated Safety Management System requirements of 10 *Code of Federal Regulations* (CFR) 851, "Worker Safety and Health Program." The EMS serves as the platform for tracking and adhering to environmental requirements for compliance and sustainability. The EMS is a set of processes and practices that enable LM to reduce its environmental impacts and increase its operating efficiency. Past performance and future plans for meeting sustainability goals are reported in the LM *Site Sustainability Plan*. This assists DOE with meeting its sustainability goals, objectives, and targets established in Executive Orders 13423 and 13514 (superseded by Executive Order 13693 in March 2015); DOE Order 436.1, *Departmental Sustainability*; and the DOE *2014 Strategic Sustainability Performance Plan*. The following programmatic documents describe LM's EMS and are accessible on the EMS page of the LM public website, on the Guiding Documents and Links page:

- LM's *Environmental Policy* (LM PO 436.1a, currently posted policy)
- LM's *Environmental Management System Description* (LMS/POL/S04346)

The following is a summary of submissions for the EMS and Sustainability Requirements, most of which are available on the LM EMS public website on the Goals/Progress/Plans/Reports page:

- LM Site Sustainability Plan: Describes progress toward sustainability goals and future plans.
- Annual Energy Report, also known as the Consolidated Energy Data Report: Gathers information on electronics stewardship, energy and water usage, waste data, renewable energy generation, greenhouse gas emissions, high-performance sustainable buildings, and sustainability projects.
- Energy Independence and Security Act (EISA) Section 432 Report: EISA reinforces the energy reduction goals for federal agencies put forth in Executive Order 13423. Section 432 requires federal agencies to identify facilities that constitute at least 75 percent of the agency's facility energy use. Comprehensive energy and water evaluations of 25 percent of facilities are completed each year, so that an evaluation of each facility is completed once every 4 years. Section 432 reports are submitted annually to provide a status on energy and water evaluations, benchmarking, and project implementation and measures follow-up.

- LM EMS Annual Facility Data Report (Executive Order 13423): Collects information on status of EMS.
- Facility Information Management System (FIMS) updates: FIMS collects real property attributes and use, including a list of assets excluded from the energy intensity reduction goal. The database also stores data on buildings that have been assessed or are scheduled to be assessed against the High Performance Sustainable Building goals.
- Federal Acquisition Statistical Tool updates: Collects current and past federal fleet fuel use, vehicle inventory, and vehicle acquisitions for the current year in addition to plans 2 years into the future.
- LM Significant Environmental Aspects: The environmental aspect of an activity describes the manner in which our work may affect the environment. *The Office of Legacy Management Significant Environmental Aspects* describes the four categories of important environmental impacts identified based on LM site activities.

5.0 Summary of Environmental Compliance

Legacy Management sites are regulated under different regulatory regimes, with the category 3 sites subject to a higher complexity of regulations than category 1 and 2 sites. The sites that are considered CERCLA/RCRA sites have been remediated under the requirements of those statutes. Under CERCLA, the sites were subject to meeting or exceeding the applicable or relevant and appropriate requirements (ARARs) of federal, state, and local laws and statutes. The following section summarizes compliance with applicable major laws and the related reporting that occurred during CY 2014.

5.1 Major Laws

CERCLA: The CERCLA sites have completed remedial actions and are now subject to long-term surveillance, maintenance, and active groundwater remediation at several sites. The status of the activities at each site is available on the associated webpages and in the listed documents. The CERCLA sites (see Table 2 and Table 3) are required to prepare Five-Year Review reports to evaluate whether the remedies at the sites remain protective of human health and the environment. No Five-Year Review reports were required to be issued in CY 2014.

RCRA: The majority of the CERCLA/RCRA sites managed hazardous waste in compliance with RCRA during the active remediation. During CY 2014, each site met the status of Conditionally Exempt Small Quantity Generator and no RCRA waste was manifested offsite. RCRA remains an ARAR at many of the sites for disposal cell maintenance and groundwater monitoring, and the sites maintain compliance with these ARARs.

- The Pinellas County, Florida, Site maintains an active RCRA Hazardous and Solid Waste Act corrective action permit issued by the State of Florida, which includes requirements for remedial action at the site under the state Global Risk-Based Corrective Action regulations. Pinellas maintains compliance with this permit, which was renewed as a 10-year permit in January 2012.

Superfund Amendments and Reauthorization Act (SARA): Emergency Planning and Community Right to Know Act (EPCRA) reports under SARA Section 312 are required annually for sites that store chemicals in amounts that exceed threshold planning quantities. In CY 2014, an EPCRA report was submitted for the Tuba City, Arizona, Disposal Site, which was the only LM site that stored chemicals in quantities that exceeded EPCRA threshold planning quantities.

UMTRCA Title I and II: UMTRCA provides for the remediation and regulation of uranium mill tailings at uranium mill sites addressed under Title I and Title II of UMTRCA. LM manages UMTRCA Title I and II sites, including inspection, monitoring, and maintenance activities.

- Requirements and frequencies for inspections, monitoring, and maintenance activities are detailed in site-specific LTSPs and Groundwater Compliance Action Plans, which are reviewed and concurred upon by NRC.
- Two Site Inspection and Monitoring Reports describing activities on UMTRCA sites, one for Title I sites and one for Title II sites, are submitted annually to NRC no more than 90 days following the last inspection of each Title I and II site.
- Environmental data are reported for each site sampling event and posted on the LM public website and reports are sent to regulators and interested stakeholders.

Clean Water Act (CWA): Some of the sites maintain National Pollutant Discharge Elimination System (NPDES) permits issued under the CWA. These NPDES permits include discharge permits, storm water permits, and a Section 404 nationwide permit.

- The Fernald Preserve, Ohio, Site, a CERCLA site, maintains an NPDES discharge permit.
- The Mound, Ohio, Site, a CERCLA/RCRA site, discharges treated groundwater under a CERCLA authorization demonstrating compliance with the CWA.
- The Weldon Spring, Missouri, Site, a CERCLA site, had two NPDES permits during CY 2014. The first permit, which covers discharges from the Leachate Collection and Removal System, is maintained as a contingency to current disposal methods. This permit was renewed on May 21, 2014. The second permit was for the sanitary sewer system for the site, which had been closed and replaced by the new no-discharge wastewater treatment system. This permit was terminated on March 5, 2014.
- The Rocky Flats, Colorado, Site, a CERCLA/RCRA site, maintains a Section 404 nationwide permit Number 43 related to breaching of earthen dams.
- Although the state of Utah agreed that no formal NPDES or equivalent Utah Pollutant Discharge Elimination System (UPDES) permit was required because of the CERCLA permit exclusion, the Monticello, Utah, Disposal and Processing Sites, CERCLA/RCRA sites, managed site storm water during 2014 in accordance with a storm water pollution prevention plan that met the substantive requirements of a UPDES General Permit for Discharges from Construction Activities.
- LM sites that implement a pest management program conduct activities in accordance with the U.S. Environmental Protection Agency (EPA) Pesticide General Permit or a state-issued general permit (for geographic areas where EPA is not the NPDES permitting authority).

Safe Drinking Water Act (SDWA): The SDWA is an ARAR for many sites in regard to groundwater contamination. This information is detailed in the environmental monitoring reports for each site.

Clean Air Act: National Emission Standards for Hazardous Air Pollutants monitoring has occurred at LM sites in the past. This type of monitoring is presently not required at any of the LM sites.

National Environmental Policy Act (NEPA): NEPA documentation is typically not required for CERCLA sites that considered NEPA values in their decision documents. Actions at non-CERCLA sites are typically within classes of actions that are categorically excluded. The evaluations of these actions are documented in Environmental Checklists and Categorical Exclusion Determination Forms, which are available for public review on the DOE and LM NEPA websites. An annual summary of proposed or ongoing environmental assessments, environmental impact statements, and mitigation action plans is provided to the DOE Office of the General Counsel and reported on the following website: http://energy.gov/lm/services/joint-environmental-management-system-ems/national-environmental-policy-act-nepa.

LM NEPA documents completed during the reporting period included:

- Environmental Checklists: 10
- Environmental Assessments: 0
- Environmental Impact Statements: 1

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA): Herbicides and pesticides are used at LM sites. Policies, procedures, and manuals are in place to ensure that they are used in compliance with FIFRA.

5.2 Requirements or Accomplishments Related to Cultural and Natural Resources

5.2.1 Cultural Resources

- LM submits a Report on Federal Archaeology Program Activities annually to the DOE Office of Environment, Health, Safety and Security (EHSS) Office of Sustainability Support. The Office of Sustainability Support compiles reports from all DOE offices and submits them to the U.S. Department of the Interior National Park Service. The report summarizes annual activities related to cultural resources and includes the total acreage surveyed to date, the number of cultural sites determined to be eligible or ineligible for the National Register of Historic Places, and the costs associated with managing the cultural resources program.
- On April 15, 2014, LM received approval of a programmatic agreement for the DOE ULP that addresses Section 106 requirements of the National Historic Preservation Act (NHPA). The programmatic agreement addressed the roles and responsibilities of DOE, Advisory Council on Historic Preservation, Colorado State Historic Preservation Office, U.S. Bureau of Land Management, and tribes.

- LM also complies with NHPA Section 106 for consultation with the state or tribal historic preservation officer associated with each site managed. LM uses subcontractors for cultural resource inventories prior to commencing ground-disturbing activities. In CY 2014, the following two cultural resource inventories were conducted:
  - Riverton, Wyoming, Processing Site (an UMTRCA Title I site): No cultural sites were identified on private property areas as a result of the inventory.
  - Shoal, Nevada, Site (a Nevada Offsite): An inventory of areas potentially disturbed by proposed drilling activities resulted in the identification of several isolated areas that were considered part of a historic district potentially eligible for nomination to the National Register of Historic Places. DOE chose to relocate a staging area to avoid the need for further consultation.

5.2.2 Natural Resources

- LM evaluates the presence or potential presence of listed species or their habitat during the NEPA process. The U.S. Fish and Wildlife Service (USFWS) website is used to obtain information on species occurrence and habitat on non-tribal lands. If a federally listed species or habitat is present or potentially present and would be impacted by an LM project, LM will initiate consultation with the USFWS under section 7 of the Endangered Species Act (ESA). Information obtained from research on species presence and characteristics, site process knowledge, federal agency wildlife biologists, records, and site visits (as needed) is used to determine if consultation is required under the ESA. The evaluation is documented and attached to the NEPA document prepared for the proposed action.
- For planned activities on Navajo Nation tribal land, the Navajo Nation Natural Heritage Program has a data request form that must be submitted for tribal consideration. The data request form provides a description of the proposed project and its specific location. A decision document regarding impacts to potential Navajo Nation and federally protected species is provided to LM. In CY 2014, LM activities did not affect any tribal-listed species.
- In some instances, water depletions from river basins may have an adverse effect on listed species inhabiting the river (e.g., fish) or river corridor (e.g., birds). LM continues to track water use related to LM site activities.
- LM annually renews the following permits that were issued by the USFWS:
  - A Goose Damage Permit for the Fernald CERCLA site
  - Two Scientific Collection Permits: one for the Fernald CERCLA site and one for the Amchitka, Alaska, Site (a Nevada Offsite)
  - A Salvage Permit for the Fernald CERCLA site
- LM is currently evaluating the potential impacts of LM activities on two species (Gunnison sage grouse and yellow-billed cuckoo) listed as “threatened” under the ESA in 2014.

6.0 Summary of Groundwater Protection Program

This section summarizes the site-specific groundwater monitoring program for applicable LM sites. For each LM site with a groundwater monitoring program, Table 4 in Attachment 1 presents the following information:

- The number of active monitoring wells
- A list of the contaminants of concern (COC)
- The number of wells that are a point of compliance (POC)
- Exceedances at a POC

The number of active monitoring wells reflects the number of wells that are sampled for groundwater monitoring purposes. The number of POC wells reflects the number of active wells that are points at which regulatory standards apply. For those sites with wells that are a POC, the table also identifies if there was an exceedance of a regulatory standard during the reporting period. Annual reports discussing site exceedances are referenced in the table footnote and are available on the LM public website.

7.0 Summary of Environmental Radiological Protection Program

LM has a radiological protection program (RPP) which implements the requirements necessary to ensure that radiological operations at LM sites and facilities are conducted in a manner that protects the health and safety of employees, the public, and the environment. The implementing documents of the RPP include the *Radiation Protection Program Plan* (LMS/POL/S04373) and *Radiological Control Manual* (LMS/POL/S04322). The purpose of the *Radiation Protection Program Plan* is to implement the requirements of 10 CFR 835, "Occupational Radiation Protection." The *Radiological Control Manual* further defines the contractor's LM-specific radiological control responsibilities. LM also ensures compliance with DOE Order 5400.5 Chg 2, *Radiation Protection of the Public and the Environment.* Although this order has been cancelled by DOE Order 458.1, *Radiation Protection of the Public and the Environment*, LM has a contractual obligation to continue to implement DOE Order 5400.5 Chg 2 until the contract is modified.

LM uses the RPP to ensure that radiation exposure to workers and the public and releases of radioactivity to the environment are maintained below regulatory limits and to further reduce exposures and releases to levels as low as reasonably achievable. Environmental cleanup at sites was completed according to all applicable statutes and regulations, and LM conducts LTS&M to verify that site conditions have not changed and that established institutional controls remain effective.

8.0 Summary of Quality Assurance

The *Quality Assurance Manual* (LMS/POL/S04320) (based on ISO 14001, *Environmental Management System*, requirements) includes processes for monitoring environmental sampling at LM sites and at the subcontracted offsite laboratories. Quality assurance requirements for

sampling activities at LM sites are detailed in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites* (LMS/PRO/S04351). Compliance with the sampling plan quality requirements provides LM sites with reliable, accurate, and precise monitoring data. The sampling plan furnishes guidance, directives, and quality control procedures to detect and prevent quality control problems from the time of sample collection through analysis and reporting of data. Key elements in achieving the goals of this program are compliance with the quality assurance program and sampling procedures, the use of quality control samples, complete documentation of field activities and laboratory analyses, sample analysis by subcontracted offsite laboratories that participate in the Consolidated Audit Program and the Mixed Analyte Performance Evaluation Program, and reviews of data documentation for precision, accuracy, and completeness (data validation).

9.0 Summary of Unique Occurrences

This section identifies unique instances of noncompliance and other types of enforcement actions related to operations and activities at sites under LM's management. The following are examples of what may be identified (as applicable): notices of violation (NOVs), environmental occurrences, and lawsuits.

- Violations: No NOVs were issued to LM sites during CY 2014.
- Occurrence Reports: There were no reportable environmental occurrences that required notification to an outside regulatory agency.
- Lawsuits: There were no lawsuits directly related to LM activities during the reporting period.

10.0 Abbreviations

ARAR	applicable or relevant and appropriate requirements
ASER	Annual Site Environmental Report
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	*Code of Federal Regulations*
COC	Contaminant of Concern
CWA	Clean Water Act
CY	calendar year
D&D	Decontamination and Decommissioning
DOE	U.S. Department of Energy
EHSS	Office of Environment, Health, Safety and Security
EISA	Energy Independence and Security Act
EMS	Environmental Management System
EPA	U.S. Environmental Protection Agency

EPCRA	Emergency Planning and Community Right to Know Act
ESA	Endangered Species Act
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FIMS	Facility Information Management System
FUSRAP	Formerly Utilized Sites Remedial Action Program
ISO	International Organization for Standardization
LM	Office of Legacy Management
LTS&M	long-term surveillance and maintenance
LTSP	long-term surveillance plan
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NOV	notice of violation
NPDES	National Pollutant Discharge Elimination System
NRC	U.S. Nuclear Regulatory Commission
POC	Point of Compliance
RCRA	Resource Conservation and Recovery Act
RPP	Radiation Protection Program
SARA	Superfund Amendments and Reauthorization Act
SDWA	Safe Drinking Water Act
ULP	Uranium Leasing Program
UMTRCA	Uranium Mill Tailings Radiation Control Act
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service

This page intentionally left blank

Attachment 1

Legacy Management Sites and Related Reports and Summary of Groundwater Monitoring Program

This page intentionally left blank

Table 1: Category 1 Sites (Typically involves records-related activities and stakeholder support)
Acid/Pueblo Canyon, NM, Site http://www.lm.doe.gov/Acid/Sites.aspx
Adrian, MI, Site http://www.lm.doe.gov/Adrian/Sites.aspx
Albany, OR, Site http://www.lm.doe.gov/Albany/Sites.aspx
Aliquippa, PA, Site http://www.lm.doe.gov/Aliquippa/Sites.aspx
Ashtabula, OH, Site http://www.lm.doe.gov/Ashtabula/Sites.aspx
Bayo Canyon, NM, Site http://www.lm.doe.gov/bayo/Sites.aspx
Berkeley, CA, Site http://www.lm.doe.gov/berkeley/Sites.aspx
Beverly, MA, Site http://www.lm.doe.gov/beverly/Sites.aspx
Buffalo, NY, Site http://www.lm.doe.gov/buffalo/Sites.aspx
Center for Energy and Environmental Research, PR, Site http://www.lm.doe.gov/CEER/Sites.aspx
Chicago North, IL, Site http://www.lm.doe.gov/chicago_north/Sites.aspx
Chicago South, IL, Site http://www.lm.doe.gov/chicago_south/Sites.aspx
Chupadera Mesa, NM, Site http://www.lm.doe.gov/chupadera/Sites.aspx
Columbus East, OH, Site http://www.lm.doe.gov/columbus_east/Sites.aspx
Columbus, OH, Site http://www.lm.doe.gov/Columbus/Sites.aspx
El Verde, PR, Site http://www.lm.doe.gov/El_Verde/Sites.aspx
Fairfield, OH, Site http://www.lm.doe.gov/fairfield/Sites.aspx
General Atomics Hot Cell Facility, CA, Site http://www.lm.doe.gov/general_atomic/Sites.aspx
Geothermal Test Facility, CA, Site http://www.lm.doe.gov/geothermal/Sites.aspx
Granite City, IL, Site http://www.lm.doe.gov/granite_city/Sites.aspx
Hamilton, OH, Site http://www.lm.doe.gov/hamilton/Sites.aspx
Indian Orchard, MA, Site http://www.lm.doe.gov/indian_orchard/Sites.aspx
Inhalation Toxicology Laboratory, NM, Site http://www.lm.doe.gov/ITL/Sites.aspx
Jersey City, NJ, Site http://www.lm.doe.gov/jersey_city/Sites.aspx
Madison, IL, Site http://www.lm.doe.gov/madison/Sites.aspx
Maxey Flats, KY, Disposal Site http://www.lm.doe.gov/maxey_flats/Sites.aspx
Missouri University Research Reactor, MO, Site http://www.lm.doe.gov/MURR/Sites.aspx
New York, NY, Site http://www.lm.doe.gov/new_york/Sites.aspx
Niagara Falls Storage Site Vicinity Properties, NY, Site http://www.lm.doe.gov/niagara/vicinity/Sites.aspx
Oak Ridge, TN, Warehouses Site http://www.lm.doe.gov/oakridge/Sites.aspx
Oxford, OH, Site http://www.lm.doe.gov/oxford/Sites.aspx
Oxnard, CA, Site http://www.lm.doe.gov/oxnard/Sites.aspx
Seymour, CT, Site http://www.lm.doe.gov/seymour/Sites.aspx
Springdale, PA, Site http://www.lm.doe.gov/springdale/Sites.aspx
Toledo, OH, Site http://www.lm.doe.gov/toledo/Sites.aspx
Tonawanda North, NY, Site Unit 1 http://www.lm.doe.gov/tonawanda/Sites.aspx
Tonawanda North, NY, Site Unit 2 http://www.lm.doe.gov/tonawanda/Sites.aspx
Vallecitos Nuclear Center, CA, Site http://www.lm.doe.gov/Vallecitos/Sites.aspx
Wayne, NJ, Site http://www.lm.doe.gov/wayne/Sites.aspx

Table 2: Category 2 Sites

(Typically involves routine inspection and maintenance, records-related activities, and stakeholder support)

Site Name	Type of Data Collected					Where Data Is Reported				
	Inspection	Groundwater and/or Surface Water Monitoring	Production Water and Gas Monitoring	Air Monitoring	Other Environmental Monitoring (biological, soil, etc.)	Site Inspection Report	CERCLA Five-Year Review Report	Annual Site Inspection and Monitoring Report for UMTRCA Title I or Title II Sites	Environmental Monitoring Report *	GEMS**
UMTRCA Sites										
Ambrosia Lake, NM, Disposal Site http://www.lm.doe.gov/Ambrosia/Sites.aspx	x	x						x	x	x
Bluewater, NM, Disposal Site http://www.lm.doe.gov/bluewater/Sites.aspx	x	x						x	x	x
Burrell, PA, Disposal Site http://www.lm.doe.gov/burrell/Sites.aspx	x	x						x	x	x
Canonsburg, PA, Disposal Site http://www.lm.doe.gov/canonsburg/Sites.aspx	x	x						x	x	x
Durango, CO, Processing Site http://www.lm.doe.gov/Durango/Processing/Sites.aspx		x							x	x
Durango, CO, Disposal Site http://www.lm.doe.gov/Durango/Disposal/Sites.aspx	x	x						x	x	x
Edgemont, SD, Disposal Site http://www.lm.doe.gov/edgemont/Sites.aspx	x							x		x
Falls City, TX, Disposal Site http://www.lm.doe.gov/falls/Sites.aspx	x	x						x	x	x
Green River, UT, Disposal Site http://www.lm.doe.gov/green_river/Sites.aspx	x	x						x	x	x
Gunnison, CO, Processing Site http://www.lm.doe.gov/Gunnison/Processing/Sites.aspx		x							x	x
Gunnison, CO, Disposal Site http://www.lm.doe.gov/Gunnison/Disposal/Sites.aspx	x	x						x	x	x
Lakeview, OR, Processing Site http://www.lm.doe.gov/Lakeview/Processing/Sites.aspx		x							x	x
Lakeview, OR, Disposal Site http://www.lm.doe.gov/Lakeview/Disposal/Sites.aspx	x	x						x	x	x
L-Bar, NM, Disposal Site http://www.lm.doe.gov/Lbar/Sites.aspx	x	x						x	x	x
Lowman, ID, Disposal Site http://www.lm.doe.gov/lowman/Sites.aspx	x							x		x
Maybell, CO, Disposal Site http://www.lm.doe.gov/Maybell/Sites.aspx	x							x		x
Maybell West, CO, Disposal Site http://www.lm.doe.gov/Maybell_West/Sites.aspx	x							x		x
Mexican Hat, UT, Disposal Site http://www.lm.doe.gov/Mexican_Hat/Sites.aspx	x				x			x		x
Monument Valley, AZ, Processing Site http://www.lm.doe.gov/MonValley/Sites.aspx		x			x				x	x

Table 2: Category 2 Sites

(Typically involves routine inspection and maintenance, records-related activities, and stakeholder support)

Site Name	Type of Data Collected					Where Data Is Reported				
	Inspection	Groundwater and/or Surface Water Monitoring	Production Water and Gas Monitoring	Air Monitoring	Other Environmental Monitoring (biological, soil, etc.)	Site Inspection Report	CERCLA Five-Year Review Report	Annual Site Inspection and Monitoring Report for UMTRCA Title I or Title II Sites	Environmental Monitoring Report *	GEMS**
Naturita, CO, Processing Site http://www.lm.doe.gov/Naturita/Processing/Sites.aspx		x							x	x
Naturita, CO, Disposal Site http://www.lm.doe.gov/Naturita/Disposal/Sites.aspx	x	x						x	x	x
Old Rifle, CO, Processing Site http://www.lm.doe.gov/Rifle/Old_Processing/Sites.aspx	x	x							x	x
New Rifle, CO, Processing Site http://www.lm.doe.gov/Rifle/New_Processing/Sites.aspx	x	x							x	x
Rifle, CO, Disposal Site http://www.lm.doe.gov/Rifle/Disposal/Sites.aspx	x	x						x	x	x
Riverton, WY, Processing Site http://www.lm.doe.gov/Riverton/Sites.aspx		x							x	x
Salt Lake City, UT, Processing Site http://www.lm.doe.gov/Salt_Lake/Processing/Sites.aspx										x
Salt Lake City, UT, Disposal Site http://www.lm.doe.gov/Salt_Lake/Disposal/Sites.aspx	x							x		x
Sherwood, WA, Disposal Site http://www.lm.doe.gov/sherwood/Sites.aspx	x	x			x			x	x	x
Shirley Basin South, WY, Disposal Site http://www.lm.doe.gov/Shirley_Basin/Sites.aspx	x	x						x	x	x
Slick Rock, CO, Processing Site http://www.lm.doe.gov/Slick_Rock/Processing/Sites.aspx		x							x	x
Slick Rock, CO, Disposal Site http://www.lm.doe.gov/Slick_Rock/Disposal/Sites.aspx	x							x		x
Spook, WY, Disposal Site http://www.lm.doe.gov/Spook/Sites.aspx	x							x		x
Decontamination and Decommissioning (D&D)										
BONUS, PR, Decommissioned Reactor Site http://www.lm.doe.gov/bonus/Sites.aspx	x					x				x
Grand Junction, CO, Site http://www.lm.doe.gov/Grand_Junction/Sites.aspx	x	x				x			x	x
Hallam, NE, Decommissioned Reactor Site http://www.lm.doe.gov/hallam/Sites.aspx	x	x				x			x	x
Piqua, OH, Decommissioned Reactor Site http://www.lm.doe.gov/Piqua/Sites.aspx	x					x				x
Site A/Plot M, IL, Decommissioned Reactor Site http://www.lm.doe.gov/SiteA_PlotM/Sites.aspx	x	x				x			x	x

Table 2: Category 2 Sites

(Typically involves routine inspection and maintenance, records-related activities, and stakeholder support)

Site Name	Type of Data Collected					Where Data Is Reported				
	Inspection	Groundwater and/or Surface Water Monitoring	Production Water and Gas Monitoring	Air Monitoring	Other Environmental Monitoring (biological, soil, etc.)	Site Inspection Report	CERCLA Five-Year Review Report	Annual Site Inspection and Monitoring Report for UMTRCA Title I or Title II Sites	Environmental Monitoring Report *	GEMS**
Nevada Offsites										
Amchitka, AK, Site http://www.lm.doe.gov/Amchitka/Sites.aspx	x				x				x	x
Central Nevada Test Area, NV http://www.lm.doe.gov/CNTA/Sites.aspx	x	x				x			x	x
Chariot, AK, Site http://www.lm.doe.gov/chariot/Sites.aspx										
Gasbuggy, NM, Site http://www.lm.doe.gov/Gasbuggy/Sites.aspx	x	x	x						x	x
Gnome-Coach, NM, Site http://www.lm.doe.gov/Gnome/Sites.aspx	x	x				x			x	x
Rio Blanco, CO, Site http://www.lm.doe.gov/Rio_Blanco/Sites.aspx	x	x	x						x	x
Rulison, CO, Site http://www.lm.doe.gov/Rulison/Sites.aspx	x	x	x						x	x
Salmon, MS, Site http://www.lm.doe.gov/salmon/Sites.aspx	x	x				x			x	x
Shoal, NV, Site http://www.lm.doe.gov/Shoal/Sites.aspx	x	x				x			x	x
Nuclear Waste Policy Act Section 151 Site										
Parkersburg, WV, Disposal Site http://www.lm.doe.gov/parkersburg/Sites.aspx	x	x				x			x	x
FUSRAP Sites										
Burris Park, CA, Site http://www.lm.doe.gov/BurrisPark/Sites.aspx	x									
New Brunswick, NJ, Site http://www.lm.doe.gov/New_Brunswick/Sites.aspx	x									
CERCLA/RCRA Sites										
Laboratory for Energy Related Health Research, CA, Site http://www.lm.doe.gov/LEHR/Sites.aspx	x	x					x		x	x

*Types of Environmental Monitoring Reports include

- Data Validation Packages
- Verification Monitoring Reports
- Groundwater Monitoring Reports
- Post-Closure Inspection and Monitoring Reports
- Hydrologic and Natural Gas Sampling and Analysis Reports

** GEMS—Geospatial Environmental Mapping System: Designed to provide dynamic mapping and environmental monitoring data display for sites managed by LM. Site-specific data are available via GEMS on the site webpage.

Table 3: Category 3 Sites

(Typically involves operation and maintenance of remedial action system, routine inspection and maintenance, records-related activities, and stakeholder support)

Site Name	Type of Data Collected					Where Data Is Reported						
	Inspection	Groundwater and/or Surface Water Monitoring Data	Discharge Monitoring	Other Environmental Monitoring (biological, soil, etc.)	Chemical inventories****	Annual Site Inspection Report	CERCLA Five-Year Report	Annual Site Inspection and Monitoring Report for UMTRCA Title I or Title II Sites	EPCRA Report	NPDES Report	Environmental Monitoring Report*	GEMS**
UMTRCA Sites												
Grand Junction, CO, Processing Site http://www.lm.doe.gov/Grand_Junction_DP/Processing/Sites.aspx	x	x									x	x
Grand Junction, CO, Disposal Site http://www.lm.doe.gov/Grand_Junction_DP/Disposal/Sites.aspx	x	x			x			x	x		x	x
Shiprock, NM, Disposal Site http://www.lm.doe.gov/Shiprock/Sites.aspx	x	x		x				x			x	x
Tuba City, AZ, Disposal Site http://www.lm.doe.gov/Tuba/Sites.aspx	x	x	x		x			x	x		x	x
CERCLA/RCRA Sites												
Fernald, OH, Site*** http://www.lm.doe.gov/Fernald/Sites.aspx	x	x	x	x	x	x	x			x	x	x
Monticello, UT, Processing Site http://www.lm.doe.gov/Monticello/Sites.aspx	x	x	x			x	x				x	x
Monticello, UT, Disposal Site http://www.lm.doe.gov/Monticello/Sites.aspx	x	x	x			x	x				x	x
Mound, OH, Site http://www.lm.doe.gov/Mound/Sites.aspx	x	x	x			x	x			x	x	x
Pinellas County, FL, Site http://www.lm.doe.gov/pinellas/Sites.aspx		x			x						x	x
Rocky Flats, CO, Site http://www.lm.doe.gov/Rocky_Flats/Sites.aspx	x	x		x	x	x	x				x	x
Weldon Spring, MO, Site http://www.lm.doe.gov/Weldon/Sites.aspx	x	x	x		x	x	x			x	x	x

*Types of Environmental Monitoring Reports include

- Data Validation Packages
- Verification Monitoring Reports
- Groundwater Monitoring Reports
- Hydrologic and Natural Gas Sampling and Analysis Reports
- Federal Facility Agreement Quarterly Reports

** GEMS – Geospatial Environmental Mapping System: Designed to provide dynamic mapping and environmental monitoring data display for sites managed by the U.S. Department of Energy Office of Legacy Management. Site-specific data is available via GEMS on the respective site webpage.

*** This site has an Annual Site Environmental Report.

**** Certain sites conduct chemical inventories to ensure compliance with EPCRA.

Table 4: CY 2014 Groundwater Monitoring Program Summary

Site Name	Active Wells	COCs	POC Wells*	Exceedance at POC Well(s)***
UMTRCA Sites				
Ambrosia Lake, NM, Disposal Site	3	Molybdenum, nitrate + nitrite as nitrogen, selenium, uranium	0	
Bluewater, NM, Disposal Site	20	Molybdenum, polychlorinated biphenyls, selenium, uranium	3	No
Burrell, PA, Disposal Site	8	Lead, molybdenum, uranium	0	
Canonsburg, PA, Disposal Site	5	1,2-trans-dichloroethylene, uranium, chloride	3	No
Durango, CO, Disposal Site	7	Chloride, iron, magnesium, manganese, molybdenum, potassium, sodium, sulfate, total dissolved solids, uranium	3	No
Durango, CO, Processing Site	24	Cadmium, manganese, molybdenum, sulfate, uranium	8	No
Falls City, TX, Disposal Site	12	Thorium-230, uranium	0	
Green River, UT, Disposal Site	22	Arsenic, nitrate + nitrite as nitrogen, sulfate, uranium	4**	Yes[a]
Gunnison, CO, Processing Site	33	Manganese, uranium	28	Yes[b]
Gunnison, CO, Disposal Site	16	Calcium, chloride, iron, magnesium, manganese, potassium, sodium, sulfate, total dissolved solids, uranium	6	No
L-Bar, NM, Disposal Site	11	Chloride, nitrate +nitrite as nitrogen, selenium, sulfate, total dissolved solids, uranium	4	No
Lakeview, OR, Disposal Site	9	Arsenic, cadmium, uranium	8	No
Monument Valley, AZ, Processing Site	46	Ammonia total as nitrogen concentration, chloride, sulfate, uranium, vanadium	0	
Naturita, CO, Disposal Site	0	Note: groundwater sampling was discontinued in 2014 as approved by NRC.	0	
Naturita, CO, Processing Site	9	Uranium, vanadium	9**	No
Rifle, CO, Processing (New) Site	17	Arsenic, molybdenum, uranium, vanadium	4**	No
Rifle, CO, Processing (Old) Site	8	Uranium, vanadium	8	No
Riverton, WY, Processing Site	34	Manganese, molybdenum, sulfate, uranium	18	Yes[c]
Sherwood, WA, Disposal Site	3	Chloride, sulfate, total dissolved solids	0	
Shiprock, NM, Disposal Site	128	Ammonium, manganese, nitrate, selenium, strontium, sulfate, uranium	0	
Shirley Basin South, WY, Disposal Site	13	Cadmium, chloride, lead, nickel, radium-226, radium-228, selenium, sulfate, thorium-228, thorium-230, thorium-232, total dissolved solids, uranium	4	Yes[d]

Table 4: CY 2014 Groundwater Monitoring Program Summary

Site Name	Active Wells	COCs	POC Wells*	Exceedance at POC Well(s)***
Slick Rock, CO, Processing Site	13	Benzene, manganese, molybdenum, radium-226, radium-228, selenium, toluene, uranium, m,p-xylene, o-xylene, zinc	13**	Yes[e]
Tuba City, AZ, Disposal Site	124	Chloride, sulfate, uranium	124	Yes[f]
CERCLA/RCRA Sites				
Fernald, OH, Site	179	Alpha-chlordane, antimony, aroclor-1254, arsenic, barium beryllium, benzene, bis (2-chloroisopropyl) ether, bis (2-ethylhexyl) phthalate, boron, bromide, bromodichloromethane, bromomethane, calcium, carbazole, carbondisulfide, chlorine-36, chloroethane, chloroform, chromium, chromium-VI, cobalt, copper, ethylbenzene, fluoride, lead, manganese, mercury, methylene chloride, molybdenum, neptunium-237, nickel, nitrate, nitrate + nitrite as nitrogen, octachlorodibenzo-p-dioxin, radium-226, radium-228, selenium, silver, strontium-90, thorium-228, thorium-230, thorium-232, trichloroethene, isotopic uranium, vanadium, vinyl chloride, zinc, 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, 4-methylphenol, 4-nitrophenol, 2,3,7,8-tetrachlorodibenzo-p-dioxin	142	Yes[g]
Monticello, UT, Processing Site	81	Arsenic, manganese, molybdenum, uranium, vanadium	46	Yes[h]
Mound, OH, Site	39	Cadmium, ceriodaphnia dubia, chloroform, copper, mercury, methylene chloride, oil and grease, tetrachloroethene, trichloroethene, trichloroethylene, trichlorofluoromethane, tritium, vinyl chloride, 1,1,1-trichloroethane, *cis*-1,2-dichloroethene, *cis*-1,2-dichloroethylene, *trans*-1,2-dichloroethene, 1,2-trans-dichloroethylene	1	No
Pinellas County, FL, Site	108	Benzene, trichloroethene, vinyl chloride, 1,4-dioxane, *cis*-1,2-dichloroethene, trans-1,2-dichloroethene,	0	
Rocky Flats, CO, Site	89	None. COCs are only established for the surface water POC.	0	
Weldon Spring, MO, Site	106	Nitrate; nitrobenzene; trichloroethene; uranium; 1,3 dinitrobenzene; 2,4-dinitrotoluene; 2,6-dinitrotoluene; 2,4,6-trinitrotoluene	0	
Grand Junction, CO, Disposal Site	3	Molybdenum, polychlorinated biphenyls, sulfate, total dissolved solids, uranium, vanadium, vinyl chloride	0	

Table 4: CY 2014 Groundwater Monitoring Program Summary

Site Name	Active Wells	COCs	POC Wells*	Exceedance at POC Well(s)***
D&D Sites				
Grand Junction, CO, Site	7	Manganese, molybdenum, sulfate, uranium	7	Yes[i]
Hallam, NE, Decommissioned Reactor Site	19	Gamma spectrometry, gross alpha, gross beta, nickel-63, tritium	0	
Site A/ Plot M, IL, Decommissioned Reactor Site	19	Strontium-90, tritium	2	No
Nevada Offsites				
Central Nevada Test Area, NV	9	Tritium, carbon-14, iodine-129	0	
Gasbuggy, NM, Site	5	Gross alpha/beta, gamma emitters, tritium	0	
Gnome-Coach, NM, Site	3	Cesium-137, strontium-90, tritium (enriched)	0	
Rio Blanco, CO, Site	4	Gamma spectrometry, tritium, enriched tritium	0	
Rulison, CO, Site	20	Gamma spectrometry, tritium, enriched tritium	0	
Salmon, MS, Site	32	Arsenic, barium, gamma spectrometry, gross alpha, gross beta, lead, tritium	0	
Shoal, NV, Site	11	Gross alpha, gross beta, tritium, uranium, uranium-234, uranium-235, uranium-238	0	
Nuclear Waste Policy Act Section 151 Site				
Parkersburg, WV, Disposal Site	6	Antimony, barium, beryllium, cadmium, chloride, gross alpha, gross beta, hafnium, lead, magnesium, mercury, nickel, potassium, radium-226, radium-228, selenium, sodium, sulfate, thallium, thiocyanate, uranium, zirconium	2	No

* For the purposes of this report, a POC well is an active monitoring well at which regulatory standards apply.
** The number of POC wells is the number proposed in the *Draft Groundwater Compliance Action Plan* for the respective sites. Although these plans are being worked to, NRC has not yet provided concurrence.
*** Sites with exceedances are reported in the documents below, which are available on the LM public website.
[a] Green River, UT, Disposal Site: *2014 Annual Site Inspection and Monitoring Report for Uranium Mill Tailings Radiation Control Act Title I Disposal Sites – Green River, UT, Disposal Site (March 2015)*.
[b] Gunnison, CO, Processing Site: *2014 Verification Monitoring Report for the Gunnison, Colorado, Processing Site* (September 2014).
[c] Riverton, WY, Processing Site: *2014 Verification Monitoring Report, Riverton, Wyoming, Processing Site* (March 2015).
[d] Shirley Basin South, WY, Disposal Site: *2014 Annual Site Inspection and Monitoring Report for Uranium Mill Tailings Radiation Control Act Title II Disposal Sites – Shirley Basin South, Wyoming, Disposal Site* (November 2014).
[e] Slick Rock, CO, Processing Site: *Verification Monitoring Report for the Slick Rock, Colorado, Processing Sites: September 2014 Sampling* (June 2015).
[f] Tuba City, AZ, Disposal Site: *Annual Groundwater Report April 2013 Through March 2014 Tuba City, Arizona, Disposal Site (September 2014);* and *Annual Groundwater Report April 2014 Through March 2015 Tuba City, Arizona, Disposal Site* (estimated September 2015).
[g] Fernald, OH, Site: *Fernald Preserve 2014 Site Environmental Report* (May 2015).
[h] Monticello, UT, Processing Site: *Monticello Mill Tailings Site Operable Unit III Annual Groundwater Report May 2013 Through April 2014* (October 2014) and *Monticello Mill Tailings Site Operable Unit III Annual Groundwater Report May 2014 Through April 2015* (estimated October 2015).
[i] Grand Junction, CO, Site: *February 2014 Groundwater and Surface Water Sampling at the Grand Junction, Colorado, Site* (April 2014).