U.S. DEPARTMENT OF ENERGY | Legacy Management

Site Management Guide

(Blue Book)

January 2016

Cover photos, top to bottom, left to right:

- Prairie at the Fernald Preserve (Ohio).
- Drilling rig at the Riverton, Wyoming, Processing Site.
- Monitoring well and meteorological station at the Bluewater, New Mexico, Disposal Site.
- Removing East Trenches Plume Treatment System Cell 1 railing at the Rocky Flats, Colorado, Site.
- Philip C. Leahy Memorial Park at the Grand Junction, Colorado, Site.

Table of Contents

1.0 – Introduction ..... **Page 3**

2.0 – Purpose ..... **Page 3**

3.0 – Site Types ..... **Page 4**

4.0 – Site Counts ..... **Page 4**

5.0 – Site Nomenclature ..... **Page 5**

6.0 – Site Transition Policy ..... **Page 6**

7.0 – Interrelationship of Site Management Guide Data ..... **Page 7**

8.0 – Appendixes ..... **Page 7**

Appendix A – Current LM Site Count Listing ..... **Page 9**

Appendix B – Site Transition Schedule ..... **Page 12**

Appendix C – Planned Site Count by Year ..... **Page 15**

Appendix D – Current Site Count by State ..... **Page 16**

Appendix E – LM Site Map ..... **Page 17**

Appendix F – Site Count by Regulatory Type and Category ..... **Page 18**

Appendix G – Site Information Summary ..... **Page 19**

Appendix H – Land Having Legacy Management Long-Term Surveillance and Maintenance (LTS&M) Activities ..... **Page 20**

Appendix I – Acronyms ..... **Page 21**

1.0 Introduction

The U.S. Department of Energy (Department) Office of Legacy Management (LM), established in 2003, manages the Department's postclosure responsibilities and ensures the future protection of human health and the environment.

During World War II and the Cold War, the Federal government developed and operated a vast network of industrial facilities for the research, production, and testing of nuclear weapons, as well as other scientific and engineering research. These processes left a legacy of radioactive and chemical waste, environmental contamination, and hazardous facilities and materials at well over 100 sites. Since 1989, the Department has taken an aggressive accelerated cleanup approach to reduce risks and cut costs.

At most Departmental sites undergoing cleanup, some residual hazards will remain at the time cleanup is completed due to financial and technical impracticality. However, the Department still has an obligation to protect human health and the environment after cleanup is completed. LM fulfills DOE's postclosure obligation by providing long-term management of postcleanup sites which do not have continuing missions.

LM is also responsible for sites under the Formerly Utilized Sites Remedial Action Program (FUSRAP). Currently, the U.S. Army Corps of Engineers (USACE) is responsible for site surveys and remediation at FUSRAP sites. Once remediation is completed, LM becomes responsible for long-term management.

LM also has responsibility for uranium processing sites addressed by Title II of the Uranium Mill Tailings Radiation Control Act (UMTRCA). UMTRCA Title II sites are sites that were commercially owned and are regulated under a U.S. Nuclear Regulatory Commission (NRC) license. For license termination, the owner must conduct an NRC-approved cleanup of any on-site radioactive waste remaining from former uranium ore-processing operations. The site owner must also provide full funding for inspections and, if necessary, ongoing maintenance. Once site cleanup is complete, LM accepts title to these sites on behalf of the United States and assumes long-term management.

2.0 Purpose

The main purpose of the *LM Site Management Guide* is to be a reference document for LM and its contractor(s) and to provide accurate and consistent information across the LM organization. The *LM Site Management Guide* Coordinator will update the guide annually. The primary data elements of the *LM Site Management Guide* include the following:

1) Site Name and Location (State)
2) Pre-LM Name
3) Transferring Organization
4) Actual Transfer Date [Fiscal Year (FY)]
5) Planned Transfer Date (FY)
6) Regulatory Driver
7) Site Type (Category 1, 2, or 3)

The data elements listed above are under configuration control (see Section 8.0) and cannot be altered without proper approvals. LM will manage and control all *LM Site Management Guide* changes except changes to data regarding the Office of Environmental Management (EM) Closure Sites transferring to LM. Such changes require joint approval by EM-1 and LM-1.

3.0 Site Types

The long-term management of each LM site is designated as one of three types based on the actual or anticipated long-term surveillance and maintenance (LTS&M) activities associated with that site. The site type indicates the level of LTS&M activities that are expected for each site, based on the following categories:

- Category 1 activities typically include records-related activities and stakeholder support
- Category 2 activities typically include routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support
- Category 3 activities typically include operation and maintenance of active remedial action systems, routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support

  Note: For sites that may have multiple categories, the overall category designation will always be the highest of all categories listed for that site. For example: The Salt Lake City, Utah, Disposal/Processing Site is currently counted as one site, but has two types of categories. The Salt Lake City, Utah, Processing (mill site) site is a category 1 site and the Salt Lake City, Utah, Disposal site is a category 2 site. For reporting purposes, this site will have an overall category designation as a category 2 site.

4.0 Site Counts

The *LM Site Management Guide* is the control document for all site count information. The manner in which sites are counted is critical to ensuring LM provides accurate and consistent site count data. It has been determined that each geographic site location will be counted as one site. This also includes geographic site locations having both a former processing site and an associated disposal site. These types of sites will also be counted as one site.

Note: Currently the only exceptions to the site count guidance are two FUSRAP sites in Berkeley, Missouri (Berkeley Site and Berkeley Site Vicinity Properties), and the two FUSRAP sites in Niagara Falls, New York (Niagara Falls Storage Site and Niagara Falls Storage Site Vicinity Properties). These four FUSRAP sites are currently counted as four sites due to the fact the USACE managed these sites as four separate sites.

The following represents examples of some UMTRCA sites having both a former processing site and an associated disposal site:

- **Two Gunnison, Colorado, sites count as one site**
  1) Gunnison, Colorado, Disposal Site
  2) Gunnison, Colorado, Processing Site

- **Three Rifle, Colorado, sites count as one site**
  1) Rifle, Colorado, Processing (New) Site
  2) Rifle, Colorado, Processing (Old) Site
  3) Rifle, Colorado, Disposal Site

5.0 Site Nomenclature

The names of many sites that transfer to the LM program are confusing and non-descriptive. In many cases sites have names using the company name of the former operator of the site, or use a geographic name or nickname. LM has established the following guidelines for naming or identifying sites within LM in order to eliminate confusion when trying to identify sites and site locations:

1) Eliminate use of company names of current or former operators or property owners.
2) When possible, name a site by using the name of the nearest city or town. If multiple sites exist near the same city or town, use a direction name (North, South, East, West) following the city or town name.

   Note: LM will receive a few sites that do not have a city or town near the site to use as the site name. In these cases, the sites will retain the current pre-LM name. **Example:** There are no cities or towns near the Salmon, Mississippi, site. “Salmon” is the project name of the site and is not referencing a geographic location; therefore, the Salmon, Mississippi, site will retain the pre-LM site name.

   FUSRAP sites pending transfer to LM retain their USACE name (as shown under Pre-LM Name column in Appendix B). Upon transfer, site names will be changed in accordance with LM Site Nomenclature.

   LM has also revised several site names for sites that have not yet transferred to LM (mainly associated with UMTRCA Title II sites) for internal management purposes. Until a site officially transfers to LM, the original (pre-LM) site name will be referenced in all outside reporting and data sharing. Appendixes A and B contain both of the sites’ pre-LM and LM site names for ease in cross-referencing.
3) The name should also include the state where the site is geographically located.

4) When applicable the site name should include additional information about the site e.g., processing, disposal, decommissioned reactor. See example below:

   Maybell, Colorado, Disposal Site
   Maybell West, Colorado, Disposal Site

6.0 Site Transition Policy

This section references the following site transition policy documents:

- **Terms and Conditions between EM and LM** – Outlines proposed terms and conditions for managing and funding site transition activities between EM and LM. The terms and conditions can be located at the following web address: http://energy.gov/lm/guidance-reports-and-documents

- **Site Transition Plan Guidance –** This document provides guidance regarding the development of Site Transition Plans. Site Transition Plan Guidance can be located at the following web address: http://energy.gov/lm/guidance-reports-and-documents

- **Site Transition Framework –** This document provides a framework for all DOE facilities and sites where DOE may have anticipated long-term surveillance and maintenance (LTS&M) responsibilities. The Site Transition Framework can be located at the following web address: http://energy.gov/lm/guidance-reports-and-documents

- **Site Transition Process Upon Cleanup Completion –** This two-page fact sheet outlines LM's policy on various aspects of site transition. This document can be located at the following web address: http://energy.gov/lm/guidance-reports-and-documents

- **Site-Specific Fact Sheets –** This is a collection of fact sheets for sites that have transferred to LM. The fact sheets cover the following topics: key milestones; site condition at the time of transfer; transition issues; and information regarding the management and mitigation of programmatic risk. Site-specific information can be acquired from the respective LM site manager, and/or found at the following web address: http://energy.gov/lm/sites/lm-sites

7.0 Interrelationship of Site Management Guide Data

All LM federal and contractor staff should recognize the importance of abiding by the *LM Site Management Guide* due to the interrelationship and interdependency between site count data and other LM products, processes, and systems.

Looking at the LM Program and the core functions of planning, budget formulation, budget execution, and evaluation, site count data is clearly found as being a major part of many products. The following are just a few of the products that require current and accurate site count data:

- LM Strategic Plan
- Budget Formulation
- Life-Cycle Planning
- Environmental Liability Estimates
- DOE Performance Measure Management (PMM) System

LM staff should use the *LM Site Management Guide* as the source document when preparing or releasing site count information for Departmental data calls, or to other transferring organizations. All changes or questions associated with the data in this guide should be addressed with the *LM Site Management Guide* Coordinator.

8.0 Appendixes

The *LM Site Management Guide* data will be reported in the following appendixes and changes from the previous update are shown in red:

Appendix A – Current LM Site Count Listing. This appendix is a listing of sites in the LM Program.

Appendix B – Site Transition Schedule. This appendix represents a schedule of sites planning to transfer to LM during FY 2016 – FY 2050.

Appendix C – Planned Site Count by Year. This appendix is a list of sites currently in the LM Program and sites planning to transfer to LM during the next ten years.

Appendix D – Current Site Count by State. This appendix is a chart of sites by state currently in the LM Program.

Appendix E – LM Site Map. This appendix is a map of sites currently in the LM Program.

Appendix F – Site Count by Regulatory Type and Category. This appendix is a chart displaying site counts by Regulatory Type and Category currently in the LM Program.

Appendix G – Site Information Summary. This appendix provides a summary for sites that are being managed under LTS&M. It consists of commonly used data points from the DOE Office of Legacy Management Site Overview report (number of wells, number of disposal

cells, and the number of institutional controls) and is grouped by regulatory type. The sites are counted as outlined in Section 4.0 above. Additionally, the summary will reflect prior year data and site data for the current year. The site-specific information supporting the summary will be reviewed and updated on an annual basis by DOE and contractor site managers.

Appendix H – Land Having Legacy Management LTS&M Activities. This appendix is a chart displaying acreage totals for non-DOE-owned sites/land with rights to conduct activities, DOE-owned (fee simple) land, and withdrawn land (see DOE Office of Legacy Management Site Overview report).

Appendix I – Acronyms. This appendix is a list of acronyms used in the *LM Site Management Guide*.

Appendix A: Current LM Site Count Listing

LM Site Count Listing Through January 31, 2016

	LM Site Name	Pre-LM Name	Category[1]	Regulatory Driver	Fiscal Year Transfer Date[2]
1	Acid/Pueblo Canyon, NM, Site	Acid/Pueblo Canyon	1	FUSRAP	**1985**
2	Adrian, MI, Site	General Motors	**2**	FUSRAP	**1996**
3	Albany, OR, Site	Albany Research Center	**2**	FUSRAP	**1993**
4	Aliquippa, PA, Site	Aliquippa Forge	**2**	FUSRAP	**1997**
5	Ambrosia Lake, NM, Disposal Site	Ambrosia Lake	2	UMTRCA Title I	**1998**
6	Amchitka, AK, Site	Amchitka Island	2	Other	**2008**
7	Ashtabula, OH, Site	Ashtabula Closure Project	1	Other	**2010**
8	Bayo Canyon, NM, Site	Bayo Canyon	1	FUSRAP	**1984**
9	Berkeley, CA, Site	University of California (Gilman Hall)	1	FUSRAP	**1985**
10	Beverly, MA, Site	Ventron Corporation	1	FUSRAP	**2004**
11	Bluewater, NM, Disposal Site	Bluewater Site	2	UMTRCA Title II	**1997**
12	BONUS, PR, Decommissioned Reactor Site	BONUS Reactor	2	D&D	**2004**
13	Buffalo, NY, Site	Bliss and Laughlin Steel Company	1	FUSRAP	**2002**
14	Burrell, PA, Disposal Site	Burrell Site	2	UMTRCA Title I	**1994**
15	Burris Park, CA, Site	Burris Park Field Station	2	FUSRAP	**2015**
16	Canonsburg, PA, Disposal Site	Canonsburg Site	2	UMTRCA Title I	**1996**
17	**Center for Energy and Environmental Research, PR, Site**	Rio Piedras Site Mayaguez site	**1**	**Other**	**2006**
18	Central Nevada Test Area, NV	Central Nevada Test Area	2	Other	**2008**
19	Chariot, AK, Site[3]	Chariot Site	2	Other	**2005**
20	Chicago North, IL, Site	National Guard Armory	1	FUSRAP	**1989**
21	Chicago South, IL, Site	University of Chicago	**2**	FUSRAP	**1989**
22	Chupadera Mesa, NM, Site	Chupadera Mesa	1	FUSRAP	**1986**
23	Columbus East, OH, Site	B & T Metals Site	1	FUSRAP	**2001**
24	Columbus, OH, Site	Columbus Closure Project	1	Other	**2008**
25	**Durango, CO, Disposal/Processing Site**	Bodo Canyon Cell Durango Mill Raffinate Ponds	**3**	**UMTRCA Title I**	**1996**
26	Edgemont, SD, Disposal Site	Edgemont Site	2	UMTRCA Title II	**1996**
27	El Verde, PR, Site	El Verde	1	Other	**2006**
28	Fairfield, OH, Site	Associate Aircraft Tool and Manufacturing	**2**	FUSRAP	**1996**
29	Falls City, TX, Disposal Site	Falls City Site	2	UMTRCA Title I	**1997**
30	Fernald, OH, Site	Fernald Closure Project	3	CERCLA/RCRA	**2008**
31	Gasbuggy, NM, Site	Gasbuggy Site	2	Other	**2008**
32	General Atomics Hot Cell Facility, CA, Site	General Atomics Hot Cell Facility	1	Other	**2005**
33	Geothermal Test Facility, CA, Site	Geothermal Test Facility	1	Other	**2005**
34	Gnome-Coach, NM, Site	Gnome-Coach	2	Other	**2008**
35	**Grand Junction, CO, Disposal/Processing Site**	Cheney Disposal Cell Grand Junction Mill 1	**3**	**UMTRCA Title I**	**1999**
36	Grand Junction, CO, Site	Grand Junction Mill 2	2	D&D	**2002**
37	Granite City, IL, Site	Granite City Steel	1	FUSRAP	**1994**
38	Green River, UT, Disposal Site	Green River Site	2	UMTRCA Title I	**1998**
39	**Gunnison, CO, Disposal/Processing Site**	Gunnison Disposal Cell Gunnison Mill	**2**	**UMTRCA Title I**	**1997**
40	Hallam, NE, Decommissioned Reactor Site	Hallam Nuclear Power Facility	2	D&D	**1998**
41	Hamilton, OH, Site	Herring-Hall-Marvin Safe Company	1	FUSRAP	**1997**

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Appendix A: LM Site Count Listing (continued)

LM Site Count Listing Through January 31, 2016

	LM Site Name	Pre-LM Name	Category[1]	Regulatory Driver	Fiscal Year Transfer Date[2]
42	Indian Orchard, MA, Site	Chapman Valve Site	1	FUSRAP	**2004**
43	Inhalation Toxicology Laboratory, NM, Site	Inhalation Toxicology Laboratory	1	Other	**2012**
44	Jersey City, NJ, Site	Kellex/Pierpont	1	FUSRAP	**1983**
45	Laboratory for Energy Related Health Research, CA, Site	Laboratory for Energy Related Health Research	2	CERCLA/RCRA	**2006**
46	**Lakeview, OR, Disposal/Processing Site**	Lakeview Site Lakeview Mill	**2**	**UMTRCA Title I**	**1995**
47	L-Bar, NM, Disposal Site	SOHIO – LBAR Site	2	UMTRCA Title II	**2004**
48	Lowman, ID, Disposal Site	Lowman Site	2	UMTRCA Title I	**1994**
49	Madison, IL, Site	Spectrulite Consortium, Inc.	**2**	FUSRAP	**2002**
50	Maxey Flats, KY, Disposal Site	Maxey Flats Disposal Site	1	CERCLA/RCRA	**2004**
51	Maybell, CO, Disposal Site	Maybell Mill Site	2	UMTRCA Title I	**1999**
52	Maybell West, CO, Disposal Site	UMETCO – Maybell Site 2	2	UMTRCA Title II	**2010**
53	Mexican Hat, UT, Disposal Site	Mexican Hat Site	2	UMTRCA Title I	**1997**
54	Missouri University Research Reactor, MO, Site	Missouri University Research Reactor	1	Other	**2005**
55	Monticello, UT, Disposal and Processing Sites	Monticello Mill Site and Vicinity Properties	3	CERCLA/RCRA	**2002**
56	Monument Valley, AZ, Processing Site	Monument Valley Site	2	UMTRCA Title I	**1997**
57	Mound, OH, Site	Miamisburg Closure Project	3	CERCLA/RCRA	**2012**
58	**Naturita, CO, Disposal/Processing Site**	Naturita Site Naturita Mill	**2**	**UMTRCA Title I**	**1999**
59	New Brunswick, NJ, Site	New Brunswick Laboratory	2	FUSRAP	**2001**
60	New York, NY, Site	Baker and Williams Warehouses	1	FUSRAP	**1996**
61	Niagara Falls Storage Site Vicinity Properties, NY, Site[4]	Niagara Falls Storage Site Vicinity Properties	**2**	FUSRAP	**1992**
62	Oak Ridge, TN, Warehouses Site	Elza Gate	1	FUSRAP	**1994**
63	Oxford, OH, Site	Alba Craft Laboratory	1	FUSRAP	**1997**
64	Oxnard, CA, Site	Oxnard Site	1	Other	**2008**
65	**Painesville, OH, Site**	**Painesville Site**	**2**	**FUSRAP**	**2016**
66	Parkersburg, WV, Disposal Site	Parkersburg Site	2	Other	**1994**
67	Pinellas County, FL, Site	Pinellas STAR Center	3	CERCLA/RCRA	**2004**
68	Piqua, OH, Decommissioned Reactor Site	Piqua Nuclear Power Facility	2	D&D	**1998**
69	**Rifle, CO, Disposal/Processing Site**	Rifle (New) Mill Rifle (Old) Mill Estes Gulch Disposal Cell	**2**	**UMTRCA Title I**	**1998**
70	Rio Blanco, CO, Site	Rio Blanco	2	Other	**2008**
71	Riverton, WY, Processing Site	Riverton Site	2	UMTRCA Title I	**1991**
72	Rocky Flats, CO, Site	Rocky Flats Closure Project	3	CERCLA/RCRA	**2008**
73	Rulison, CO, Site	Rulison	2	Other	**2008**
74	Salmon, MS, Site	Salmon Site	2	Other	**2008**
75	**Salt Lake City, UT, Disposal/Processing Site**	South Clive Disposal Cell Salt Lake City Mill	**2**	**UMTRCA Title I**	**1997**
76	Seymour, CT, Site	Seymour Specialty Wire	**2**	FUSRAP	**1995**
77	Sherwood, WA, Disposal Site	WNI – Sherwood Site	2	UMTRCA Title II	**2001**
78	Shiprock, NM, Disposal Site	Shiprock Site	3	UMTRCA Title I	**1996**
79	Shirley Basin South, WY, Disposal Site	Petrotomics - Shirley Basin 1	2	UMTRCA Title II	**2005**
80	Shoal, NV, Site	Project Shoal	2	Other	**2008**
81	Site A / Plot M, IL, Decommissioned Reactor Site	Palos Forest (Site A/Plot M) Preserve	2	D&D	**1998**

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Appendix A: LM Site Count Listing (continued)

LM Site Count Listing Through January 31, 2016

	LM Site Name	Pre-LM Name	Category[1]	Regulatory Driver	Fiscal Year Transfer Date[2]
82	**Slick Rock, CO, Disposal/Processing Site**	Slick Rock (North Continent) Mill 1 Slick Rock (Union Carbide) Mill 2 Burro Canyon Disposal Cell	**2**	**UMTRCA Title I**	**1998**
83	Spook, WY, Disposal Site	Spook Site	2	UMTRCA Title I	**1993**
84	Springdale, PA, Site	C.H. Schnorr	1	FUSRAP	**1996**
85	Toledo, OH, Site	Baker Brothers, Inc.	1	FUSRAP	**2001**
86	Tonawanda North, NY, Site Unit 1	Ashland #1	1	FUSRAP	**2009**
87	Tonawanda North, NY, Site Unit 2	Ashland #2	1	FUSRAP	**2009**
88	Tuba City, AZ, Disposal Site	Tuba City Site	3	UMTRCA Title I	**1996**
89	Vallecitos Nuclear Center, CA, Site	General Electric Vallecitos Nuclear Center	1	Other	**2013**
90	Wayne, NJ, Site	Wayne Interim Storage Site	1	FUSRAP	**2007**
91	Weldon Spring, MO, Site	Weldon Spring Site	3	CERCLA/RCRA	**2003**
				Total	**91**

Notes:

[1] Category 1: Activities typically include records-related activities and stakeholder support.

Category 2: Activities typically include routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

Category 3: Activities typically include operation and maintenance of active remedial action systems, routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

[2] FUSRAP Pre-LM Names per USACE and Fiscal Year Transfer Dates per Federal Register notice of cleanup certification or DOE certification.

[3] The Chariot, AK, Site has been reclassified from a category 1 to a category 2 site due to the need to close additional boreholes and cleanup of some petroleum contaminated soil at the site. The site will revert to a category 1 site once remediation is formally acknowledged as complete by the Alaska Department of Environmental Conservation.

[4] **A portion of Niagara Falls Storage Site VPs X' & H' have been referred from DOE to USACE for remediation.**

Appendix B: Site Transition Schedule

Sites Planning to Transition in FY 2016

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver
1	Bear Creek, WY, Disposal Site[2]	Anadarko Petroleum – Bear Creek Site	2	Private Licensee	UMTRCA Title II
				Total	**1**
				Cumulative	**92**

Sites Planning to Transition in FY 2017

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver
1	Colonie, NY, Site[3]	**Colonie Interim Storage Site**	2	USACE	FUSRAP
2	Tonawanda, NY, Site	Linde Air Products	**2**	USACE	FUSRAP
				Total	**2**
				Cumulative	**94**

Sites Planning to Transition in FY 2018

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver
1	Attleboro, MA, Site	Shpack Landfill	2	USACE	FUSRAP
2	Gas Hills North, WY, Disposal Site[2]	Pathfinder – Lucky Mc Site	2	Private Licensee	UMTRCA Title II
3	Panna Maria, TX, Disposal Site	Chevron – Panna Maria Site	2	Private Licensee	UMTRCA Title II
4	Ray Point, TX, Disposal Site	**Exxon Mobil – Ray Point Site, Felder Site**	2	Private Licensee	UMTRCA Title II
5	Uravan, CO, Disposal Site	UMETCO – Uravan Site	2	Private Licensee	UMTRCA Title II
6	Windsor, CT, Site	Combustion Engineering Site	1	USACE	FUSRAP
				Total	**6**
				Cumulative	**100**

Sites Planning to Transition in FY 2019

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver
1	Conquista, TX, Disposal Site	Conoco – Conquista Site	2	Private Licensee	UMTRCA Title II
2	Gas Hills East, WY, Disposal Site	UMETCO – Gas Hills Site	2	Private Licensee	UMTRCA Title II
3	Lisbon Valley, UT, Disposal Site	Rio Algom – Lisbon Valley Site	2	Private Licensee	UMTRCA Title II
4	Split Rock, WY, Disposal Site	WNI – Split Rock Site	2	Private Licensee	UMTRCA Title II
				Total	**4**
				Cumulative	**104**

Sites Planning to Transition in FY 2020

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver
1	Ambrosia Lake West, NM, Disposal Site	Rio Algom – Ambrosia Lake Site 2	2	Private Licensee	UMTRCA Title II
2	Durita, CO, Disposal Site	HECLA – Durita Site	2	Private Licensee	UMTRCA Title II
3	Energy Technology Engineering Center, CA, Site	Energy Technology Engineering Center	1	EM	Other
4	Highland, WY, Disposal Site	Exxon Mobil – Highland Site	2	Private Licensee	UMTRCA Title II
5	Middlesex South, NJ, Site[3, 5]	Middlesex Sampling Plant	2	USACE	FUSRAP
6	Sequoyah County, OK, Disposal Site	Sequoyah Fuels Site	2	Private Licensee	UMTRCA Title II
				Total	**6**
				Cumulative	**110**

Sites Planning to Transition in FY 2021

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver
1	Deepwater, NJ, Site	DuPont Chambers Works	2	USACE	FUSRAP
2	St. Louis, MO, Site	St. Louis Downtown Site	**3**	USACE	FUSRAP
				Total	**2**
				Cumulative	**112**

Sites Planning to Transition in FY 2022

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver
1	Curtis Bay, MD, Site	W.R. Grace at Curtis Bay Site	2	USACE	FUSRAP
2	Ford, WA, Disposal Site	Dawn – Ford Site	2	Private Licensee	UMTRCA Title II
3	Middletown, IA, Site	Iowa Army Ammunition Plant	2	USACE	FUSRAP
				Total	**3**
				Cumulative	**115**

Appendix B: Site Transition Schedule (continued)

Sites Planning to Transition in FY 2023

There are no sites planned for transition in 2023

Sites Planning to Transition in FY 2024

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver
1	Grants, NM, Disposal Site	Homestake – Grants Site	2	Private Licensee	UMTRCA Title II
2	Maywood, NJ, Site[3]	Maywood Chemical Superfund Site	2	USACE	FUSRAP
				Total	**2**
				Cumulative	**117**

Sites Planning to Transition in FY 2025

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver
1	Church Rock, NM, Disposal Site	General Electric/United Nuclear Corporation – Church Rock Site	2	Private Licensee	UMTRCA Title II
2	Gas Hills West, WY, Disposal Site	ANC – Gas Hills Site	2	Private Licensee	UMTRCA Title II
3	**Moab, UT, Disposal/Processing Site**	Atlas – Moab Mill **Crescent Junction Disposal Cell**	**3**	**EM**	**UMTRCA Title I**
4	Tonawanda North, NY, Site Unit 3	Seaway Industrial Park	2	USACE	FUSRAP
				Total	**4**
				Cumulative	**121**

Sites Planning to Transition in FY 2026

There are no sites planned for transition in 2026

Sites Planning to Transition in FY 2027

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver
1	Berkeley, MO, Site	St. Louis Airport Site	3	USACE	FUSRAP
2	Berkeley, MO, Site Vicinity Properties	St. Louis Airport Site Vicinity Properties	3	USACE	FUSRAP
3	Hazelwood, MO, Site	Latty Avenue Properties	3	USACE	FUSRAP
4	Luckey, OH, Site	Luckey Site	2	USACE	FUSRAP
				Total	**4**
				Cumulative	**125**

Sites Planning to Transition in FY 2028

There are no sites planned for transition in 2028

Sites Planning to Transition in FY 2029

There are no sites planned for transition in 2029

Sites Planning to Transition in FY 2030

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver
1	Carnegie, PA, Site[4]	Superior Steel	2	USACE	FUSRAP
2	Cleveland, OH, Site[4]	Harshaw Chemical Company	2	USACE	FUSRAP
3	Ft. Wayne, IN, Site[4]	Joslyn Manufacturing and Supply Company	2	USACE	FUSRAP
4	Hicksville, NY, Site[4]	Sylvania Corning Plant	2	USACE	FUSRAP
5	Lockport, NY, Site[4]	Guterl Specialty Steel	2	USACE	FUSRAP
6	Middlesex North, NJ, Site[4,5]	Middlesex Municipal Landfill	2	USACE	FUSRAP
7	Niagara Falls Storage Site, NY, Site[3,4]	Niagara Falls Storage Site (includes VPs E, E Prime and G)	2	USACE	FUSRAP
8	Parks Township, PA, Site[4]	Shallow Land Disposal Area	2	USACE	FUSRAP
9	Tonawanda, NY, Landfill Site[4]	Tonawanda Landfill	2	USACE	FUSRAP
				Total	**9**
				Cumulative	**134**

Appendix B: Site Transition Schedule (continued)

Sites Planning to Transition in FY 2031 - 2050

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver	Planned Transfer
1	West Valley, NY, Site	West Valley Demonstration Project	2	EM	CERCLA/RCRA	2040
2	Portsmouth, OH, Site	Portsmouth Gaseous Diffusion Plant	2	EM	CERCLA/RCRA	2044
3	Canon City, CO, Disposal Site	Cotter – Canon City Site	2	Private Licensee	UMTRCA Title II	2047
4	Paducah, KY, Site	Paducah Gaseous Diffusion Plant	2	EM	CERCLA/RCRA	2047
5	Salt Lake City 11e.(2), UT, Disposal Site	11e(2) Disposal Site	2	Private Licensee	UMTRCA Title II	2047
6	Shirley Basin North, WY, Disposal Site	Pathfinder – Shirley Basin Site 2	2	Private Licensee	UMTRCA Title II	2047
7	Shootaring Canyon, UT, Disposal Site	Plateau Shootaring Canyon Site	2	Private Licensee	UMTRCA Title II	2047
8	Sweetwater, WY, Disposal Site	Kennecott Sweetwater Site	2	Private Licensee	UMTRCA Title II	2047
9	White Mesa, UT, Disposal Site	EFN – White Mesa Site	2	Private Licensee	UMTRCA Title II	2047
10	Andrews 11e.(2), TX, Disposal Site	WCS Federal Waste Facility	2	Private Licensee	UMTRCA Title II	2050
				Total	10	
				Cumulative	**144**	

FUSRAP Sites Referred from DOE to USACE - Not Currently Designated by USACE For Active Status

	LM Site Name	Pre-LM Name	Category[1]	Transferring Organization	Regulatory Driver	Planned Transfer
1	Brooklyn, NY, Site[4]	Wolff-Alport Chemical Company	1	USACE	FUSRAP	2030
2	Niagara Falls Storage Site Vicinity Properties, NY, Site[4]	Niagara Falls Storage Site Vicinity Properties H and X	1	USACE	FUSRAP	2030
3	Painesville Vicinity Properties, OH, Site	Painesville VP Ohio Sites	1	USACE	FUSRAP	2030
4	Staten Island, NY, Site[4]	Staten Island Warehouse	1	USACE	FUSRAP	2030

[1] Category 1: Activities typically include records-related activities and stakeholder support.
Category 2: Activities typically include routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.
Category 3: Activities typically include operation and maintenance of active remedial action systems, routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

[2] The fee land and wells for the Bear Creek and Gas Hills North, WY Sites have transferred to DOE, but the Title II private license has not been terminated. These sites will formally transfer to DOE after NRC concurs that remedial action has been completed, and accepts the site-specific long-term surveillance plan. After which, the sites will be administered under the NRC general license for long-term care.

[3] The DOE Office of Legacy Management is the owner of record at the following FUSRAP sites: Colonie, NY; Maywood, NJ; Middlesex South, NJ; and Niagara Falls, NY. LM shall accept responsibility for all federally-owned real property and interests therein, acquired by USACE for FUSRAP execution at the time of site closeout (i.e., public declaration of completion). Long-term surveillance and maintenance responsibilities shall transfer to LM two years after site closeout. Fiscal year transition date to LM is triggered by the site closeout event.

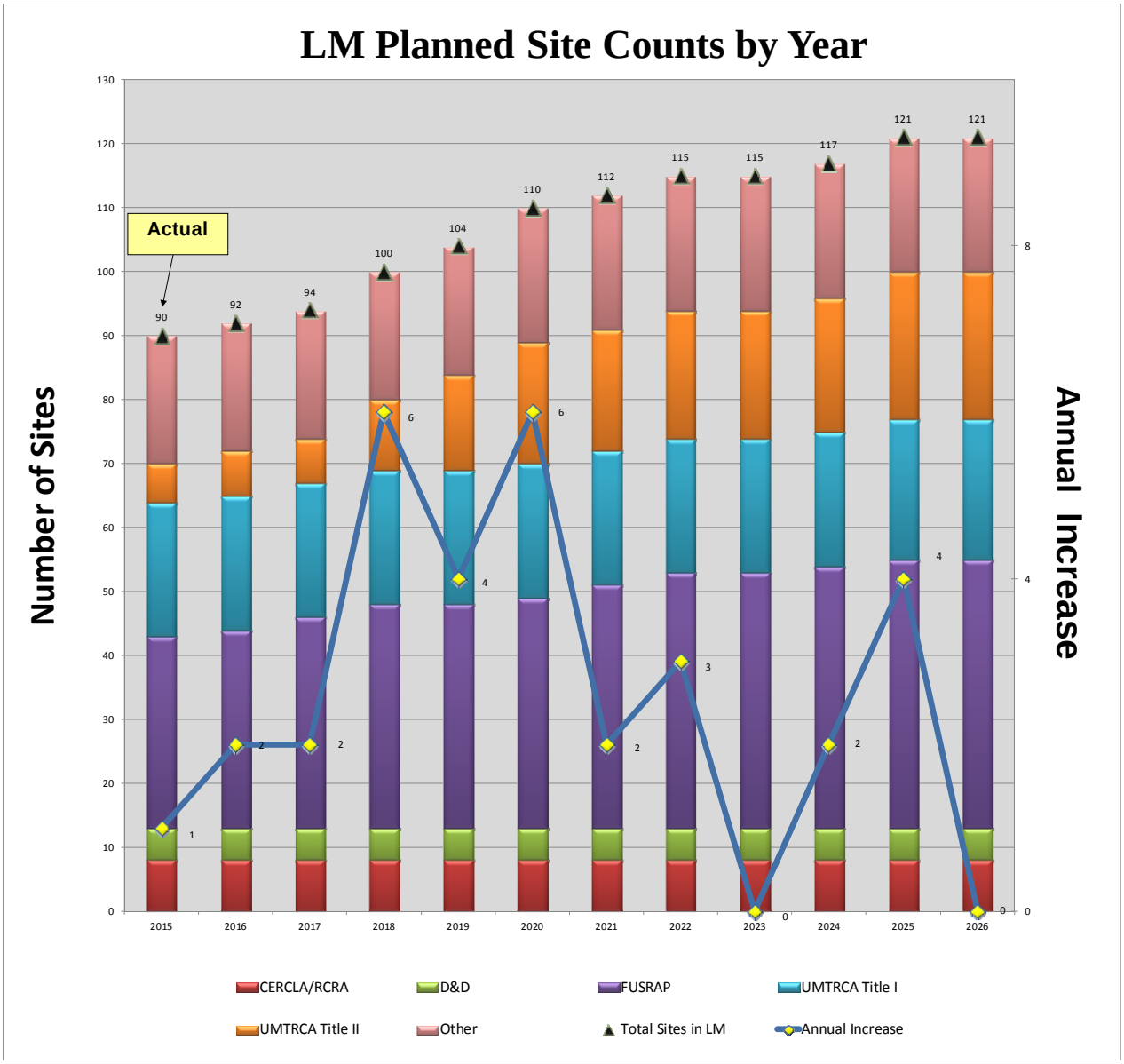
[4] Completion date assumed **to be FY2030** for out-year planning. Actual remedial action completion date not yet scheduled by USACE.

[5] **Middlesex (Sampling plant and Municipal Landfill) are considered to be one site by the USACE whereas LM considers them two sites.**

Appendix C: Planned Site Count by Year

BY END OF FISCAL YEAR

	Actual	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned
Site	2015	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**
CERCLA/RCRA	8	8	8	8	8	8	8	8	8	8	8	8
D&D	5	5	5	5	5	5	5	5	5	5	5	5
FUSRAP	30	31	33	35	35	36	38	40	40	41	42	42
UMTRCA Title I	21	21	21	21	21	21	21	21	21	21	22	22
UMTRCA Title II	6	7	7	11	15	19	19	20	20	21	23	23
Other	20	20	20	20	20	21	21	21	21	21	21	21
Total	**90**	**92**	**94**	**100**	**104**	**110**	**112**	**115**	**115**	**117**	**121**	**121**
Annual Increase	**1**	**2**	**2**	**6**	**4**	**6**	**2**	**3**	**0**	**2**	**4**	**0**



Appendix D: Current Site Count by State

State Site Counts as of January 31, 2016

	State	CAT 1	CAT 2	CAT 3	# of Sites
1	Alaska		2		2
2	Arizona [1]		1	1	2
3	California	5	2		7
4	Colorado		9	3	12
5	Connecticut		1		1
6	Florida			1	1
7	Idaho		1		1
8	Illinois	2	3		5
9	Kentucky	1			1
10	Massachusetts	2			2
11	Michigan		1		1
12	Mississippi		1		1
13	Missouri	1		1	2
14	Nebraska		1		1
15	Nevada		2		2
16	New Jersey	2	1		3
17	New Mexico [2]	4	5	1	10
18	New York	4	1		5
19	Ohio	6	3	2	11
20	Oregon		2		2
21	Pennsylvania	1	3		4
22	South Dakota		1		1
23	Tennessee	1			1
24	Texas		1		1
25	Utah [3]		3	1	4
26	Washington [4]		1		1
27	West Virginia		1		1
28	Wyoming		3		3
	Puerto Rico	2	1		3
	TOTAL	31	50	10	91

Category 1: Activities typically include records-related activities and stakeholder support.

Category 2: Activities typically include routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

Category 3: Activities typically include operation and maintenance of active remedial action systems, routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

Sites Located on Tribal Land

[1] Monument Valley, AZ, Site resides on Navajo Tribal Land. Tuba City, AZ, Site resides on Navajo and Hopi Tribal Land.

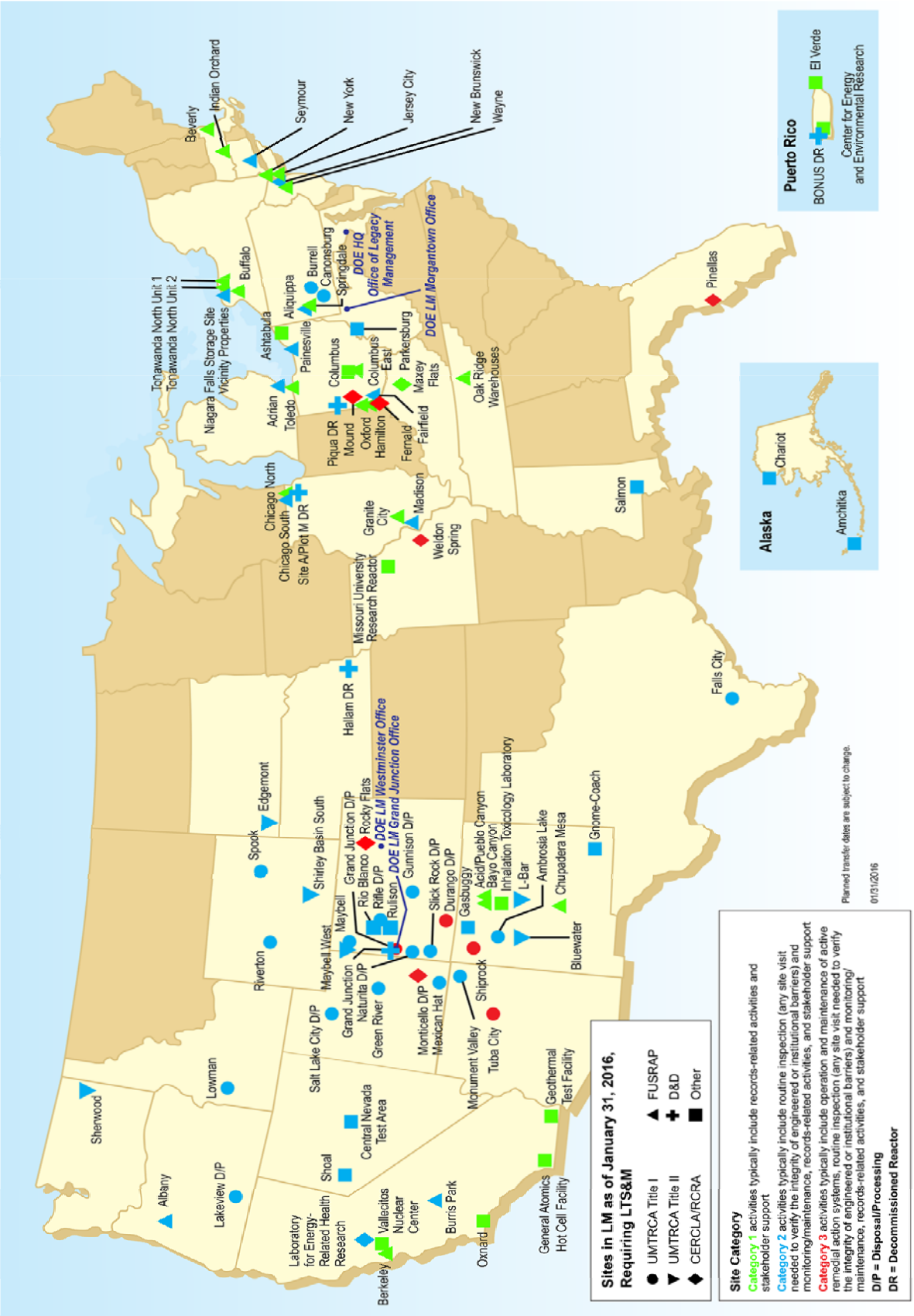
[2] Shiprock, NM, Site resides on Navajo Tribal Land.

[3] Mexican Hat, UT, Site resides on Navajo Tribal Land.

[4] Sherwood, WA, Site resides on Spokane Tribal Land.

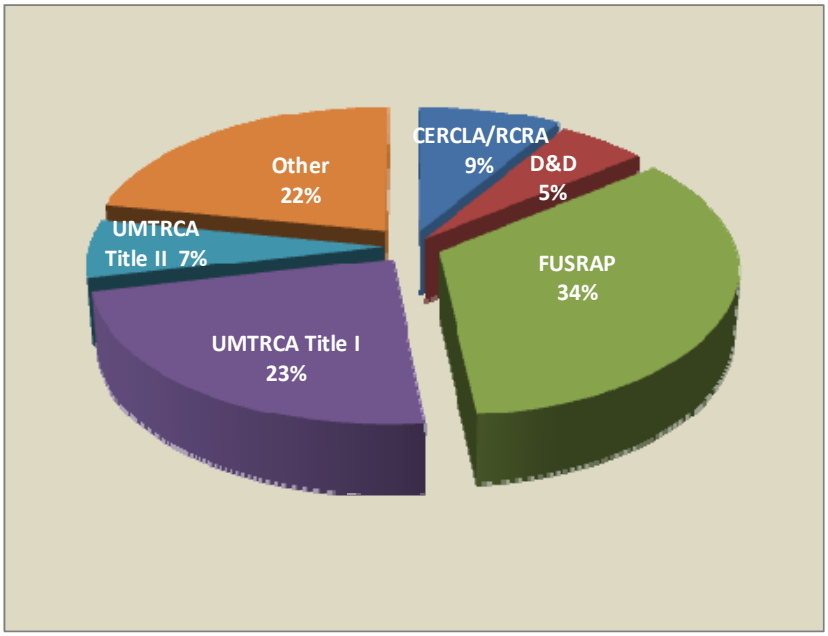
Appendix E: LM Site Map – as of January 31, 2016

Note: Map is only a representation and may not be to actual scale.

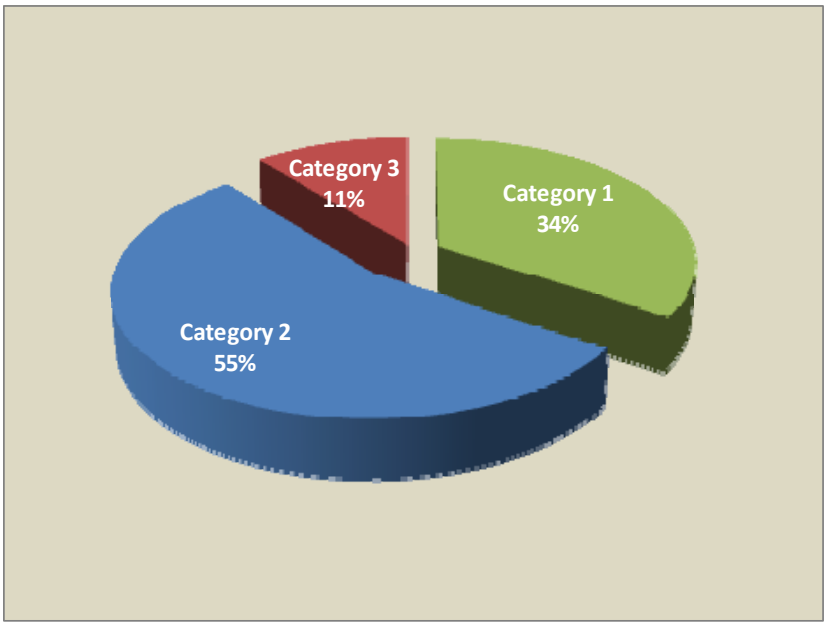


Appendix F: Site Count by Regulatory Type and Category

Type	Actual Through January 2016
CERCLA/RCRA	8
D&D	5
FUSRAP	31
UMTRCA Title I	21
UMTRCA Title II	6
Other	20
TOTAL	91



Sites by Category	Actual Through January 2016
Category 1	31
Category 2	50
Category 3	10
TOTAL	91



Category 1: Activities typically include records-related activities and stakeholder support.

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Category 3: Activities typically include operation and maintenance of active remedial action systems, routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

Appendix G: Site Information Summary

LM-20 Office of Site Operations
Site Information Summary as of January 31, 2016[1]

	Number of Sites		Number of DOE Wells Associated with Site		Number of Disposal Cells, Landfills, and other Impoundments[2]		Institutional Controls[3] (Yes or No)	
Type of Site	**2014**	**2015**	**2014**	**2015**	**2014**	**2015**	**2014**	**2015**
CERCLA/RCRA Sites	8	8	980	964	5	5	Yes (7 sites)	Yes (7 sites)
D&D Sites	5	5	52	52	3	3	Yes (5 sites)	Yes (5 sites)
FUSRAP Sites	30	30	0	0	0	0	Yes (2 sites)	Yes (2 sites)
UMTRCA Title I Sites	21	21	764	739	19	19	Yes (21 sites)	Yes (21 sites)
UMTRCA Title II Sites	6	6	50	50	7	7	Yes (6 sites)	Yes (6 sites)
Other Sites	20	20	79	79	10	10	Yes (10 sites)	Yes (9 sites)
TOTALS	**90**	**90**	**1,925**	**1,884**	**44**	**44**	**Yes (51 sites)**	**Yes (50 sites)**
INCREASE/(DECREASE)		**0**		**-41**		**0**		

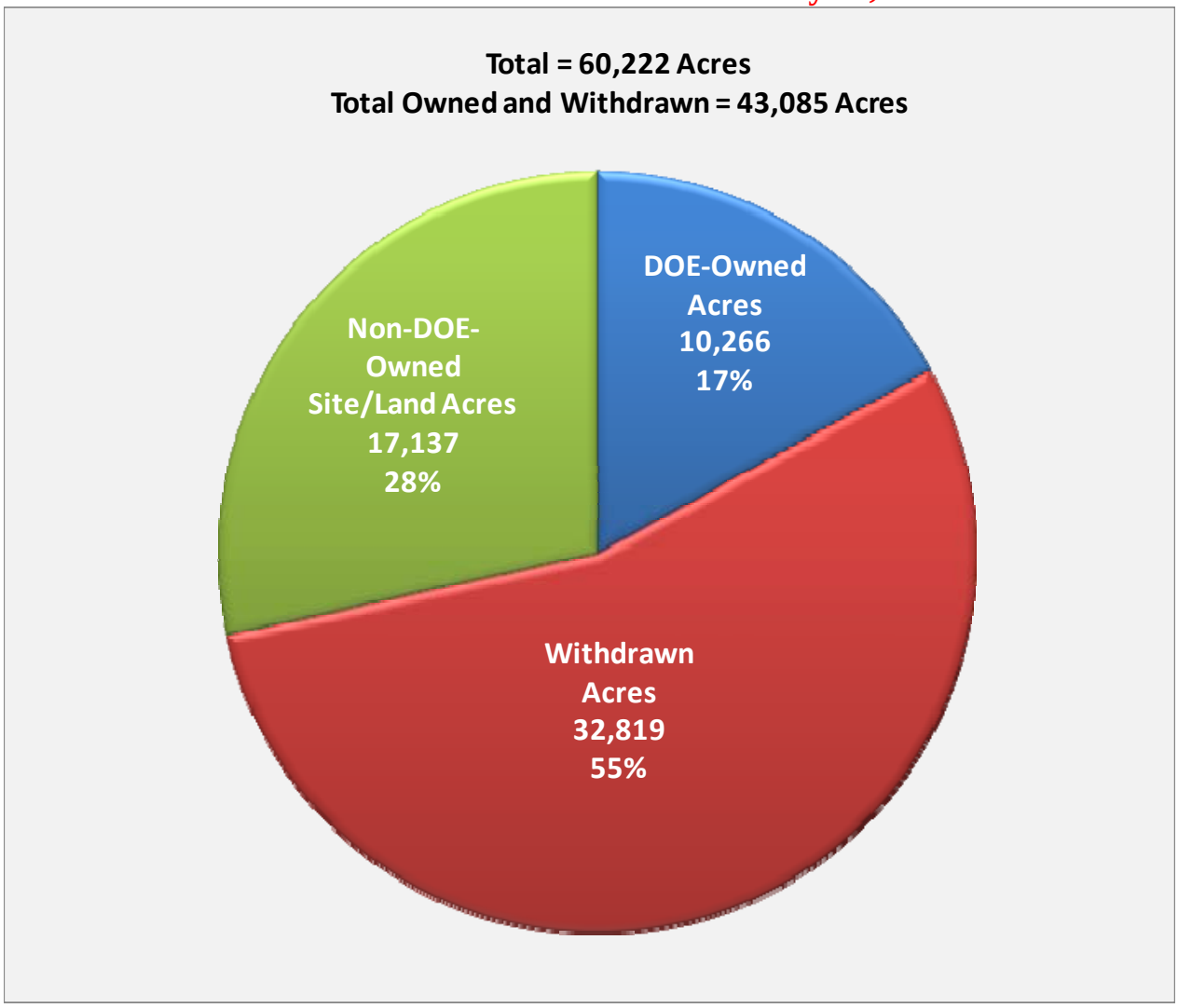
[1] Comparison of last reporting period (January 31, 2015) to data through December 31, 2015.

[2] Disposal Cells/Systems planned are counted individually; may be counted as systems upon transition.

[3] Calibration Pits and Pads is excluded for 2015, but was included for 2014, resulting in the decreased total for Other Sites.

Appendix H: Land Having Legacy Management

Sites with LTS&M Activities – as of January 31, 2016



DOE-Owned (Fee Simple)

Withdrawn (Includes 25,137 acres withdrawn for uranium/vanadium **mineral development and** mining, of which roughly 700 acres will be **affected by DOE's mineral-leasing activities**. BLM manages all other surface uses **of these lands**.)

Non-DOE-Owned Site/Land with Rights to Conduct Activities (e.g., surface/soil or groundwater restrictions, environmental monitoring, maintenance, inspections)

Note: The fee land and wells for the Bear Creek and Gas Hills North, WY, sites have transferred to DOE, but the Title II private license has not been terminated. These sites are not yet under the DOE general license. LM is the owner of record at the following FUSRAP sites: Colonie, NY; Maywood, NJ; Middlesex South, NJ; and Niagara Falls Storage Site, NY. The USACE is responsible for protectiveness at these sites until remedial action is completed and LM assumes LTS&M responsibility for the sites.

Appendix I: Acronyms

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
D&D	Decontamination and Decommissioning
Department or DOE	U.S. Department of Energy
EM	Office of Environmental Management
FUSRAP	Formerly Utilized Sites Remedial Action Program
FY	Fiscal Year
ICs	Institutional Controls
LM	Office of Legacy Management
LTS&M	Long-Term Surveillance and Maintenance
NRC	U.S. Nuclear Regulatory Commission
RCRA	Resource Conservation and Recovery Act
UMTRCA	Uranium Mill Tailings Radiation Control Act
USACE	U.S. Army Corps of Engineers
VPs	Vicinity Properties

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Site Management Guide
(Blue Book)

January 2016

U.S. DEPARTMENT OF ENERGY | Legacy Management