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Date: **OCT 11 2018**  
Refer To: N3B-18-0207

John Kieling, Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6303

**Subject: Class 1 Permit Modification Request Requiring Prior Approval to Add Solid Waste Management Unit 02-014 to the Los Alamos National Laboratory Hazardous Waste Facility Permit, EPA ID No. NM0890010515**

Dear Mr. Kieling:

Enclosed is a Class 1 permit modification request requiring prior approval from the New Mexico Environment Department–Hazardous Waste Bureau (NMED-HWB) to modify the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit) issued to the U.S. Department of Energy (DOE); Triad National Security, LLC; and Newport News Nuclear BWXT – Los Alamos, LLC (N3B) (the Permittees). As directed by NMED-HWB, the Permittees request revision of Table K-1 of the Permit’s Attachment K, “Listing of SWMUs and AOCs,” to add a newly discovered solid waste management unit (SWMU) within Technical Area 02 (TA-02) at LANL. The new SWMU, designated SWMU 02-014, consists of three former electrical transformer stations that served buildings at TA-02.

In its May 23, 2018, response to the Permittees’ April 26, 2018, letter, “Notification of Newly Discovered Potential New Solid Waste Management Unit,” NMED-HWB determined that SWMU 02-014 be added to the Permit via a Class 1 permit modification request requiring prior approval. The Permittees’ Class 1 permit modification request consists of this letter and an enclosure containing a description of the proposed permit modification; Attachment 1 to the enclosure with redline edits of Attachment K, Table K-1, of the Permit; and Attachment 2, a signed certification page. Three hardcopies with electronic files of the enclosure are provided.

In addition, NMED-HWB directed the Permittees to add SWMU 02-014 to Appendix A of the June 2016 Compliance Order on Consent (Consent Order) as part of the fiscal year 2019 annual planning process updates, in accordance with Section VIII.C.1 of the Consent Order. This transmittal provides the Permittees’ commitment to do so.

Upon approval by NMED-HWB, a notification of this permit modification will be sent to the NMED-HWB-maintained LANL facility mailing list in accordance with 40 Code of Federal Regulations 270.42(a)(1)(ii) within 90 days of approval of this permit modification request.

If you have comments or questions regarding this permit modification request, please contact Emily Day at (505) 695-4243 (emily.day@em-la.doe.gov) or Cheryl Rodriguez at (505) 665-5330 (cheryl.rodriguez@em.doe.gov).

Sincerely,



Frazer Lockhart  
Program Manager  
Regulatory and Stakeholder Interface  
N3B – Los Alamos

Sincerely,



Arturo Q. Duran, Permitting Manager  
Office of Quality and Regulatory Compliance  
Environmental Management  
Los Alamos Field Office

FL/AD/ED/CR:ss

Enclosure(s): Three hard copies with electronic files – Class 1 Permit Modification Request Requiring Prior Approval to Add Solid Waste Management Unit 02-014 to the Los Alamos National Laboratory Hazardous Waste Facility Permit, EPA ID No. NM0890010515 (EM2018-0042)

Cy: (letter and enclosure[s] emailed)  
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# **ENCLOSURE 1**

Class 1 Permit Modification Request Requiring Prior Approval  
to Add Solid Waste Management Unit 02-014 to the  
Los Alamos National Laboratory Hazardous Waste Facility Permit,  
EPA ID No. NM0890010515

EM2018-0042



**Class 1 Permit Modification Request Requiring Prior Approval  
to Add Solid Waste Management Unit 02-014 to the  
Los Alamos National Laboratory Hazardous Waste Facility Permit, EPA ID No. NM0890010515**

This document is a Class 1 permit modification request requiring prior approval for the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (Permit) issued by the New Mexico Environment Department–Hazardous Waste Bureau (NMED-HWB) to the U.S. Department of Energy (DOE); Triad National Security, LLC; and Newport News Nuclear BWXT – Los Alamos, LLC (N3B). The U.S. Environmental Protection Agency facility ID is NM0890010515. This Class 1 permit modification request requiring prior written approval has been prepared in accordance with 40 Code of Federal Regulations (CFR) 270.42. This permit modification request has been drafted for review and approval by NMED-HWB pursuant to 20 New Mexico Administrative Code (NMAC) 4.1.900, incorporating 40 CFR 270.42.

**Proposed Permit Modification Summary**

The Permittees are requesting to revise Table K-1 of Permit Attachment K, “Listing of SWMUs and AOCs,” to add a newly discovered solid waste management unit (SWMU) within Technical Area 02 (TA-02) at LANL. The SWMU is depicted in Figure 1.

- Attachment 1 contains the proposed changes to Permit Attachment K, Table K-1, in tracked changes format.
- Attachment 2 includes a signed certification by DOE and N3B for this permit modification request as required by 20 NMAC 4.1.900 (incorporating 40 CFR 270.11).

**Rationale for Proposed Modification**

In their “Notification of Newly Discovered Potential New Solid Waste Management Unit,” dated April 26, 2018, LANL Permittees notified NMED-HWB of a newly discovered potential SWMU within TA-02 at LANL. NMED-HWB responded in its May 23, 2018, letter that the potential new SWMU, designated SWMU 02-014, be added to Table K-1 of Permit Attachment K, “Listing of SWMUs and AOCs.”

SWMU 02-014 consists of three former electrical transformer stations that served buildings at TA-02. The structures were demolished in 1950, 1961, and 2003, and the site was not originally identified as a SWMU or area of concern (AOC) in the 1990 SWMU report. However, recent sampling of the area during the investigation of the Middle Los Alamos Canyon Aggregate Area identified polychlorinated biphenyls (PCBs) in soils above residential screening levels. PCBs were known to have been used at one or more of the transformer stations. The Permittees recommended, and NMED-HWB concurred, that SWMU 02-014 be added to Appendix A of the June 2016 Compliance Order on Consent (Consent Order) as part of the Fiscal Year 2019 annual planning process updates, in accordance with Section VIII.C.1 of the Consent Order.

**Discussion of Changes**

The only proposed Permit change is the addition of SWMU 02-014 to Table K-1 in Permit Attachment K. The applicable changes are shown in Attachment 1 to this document.

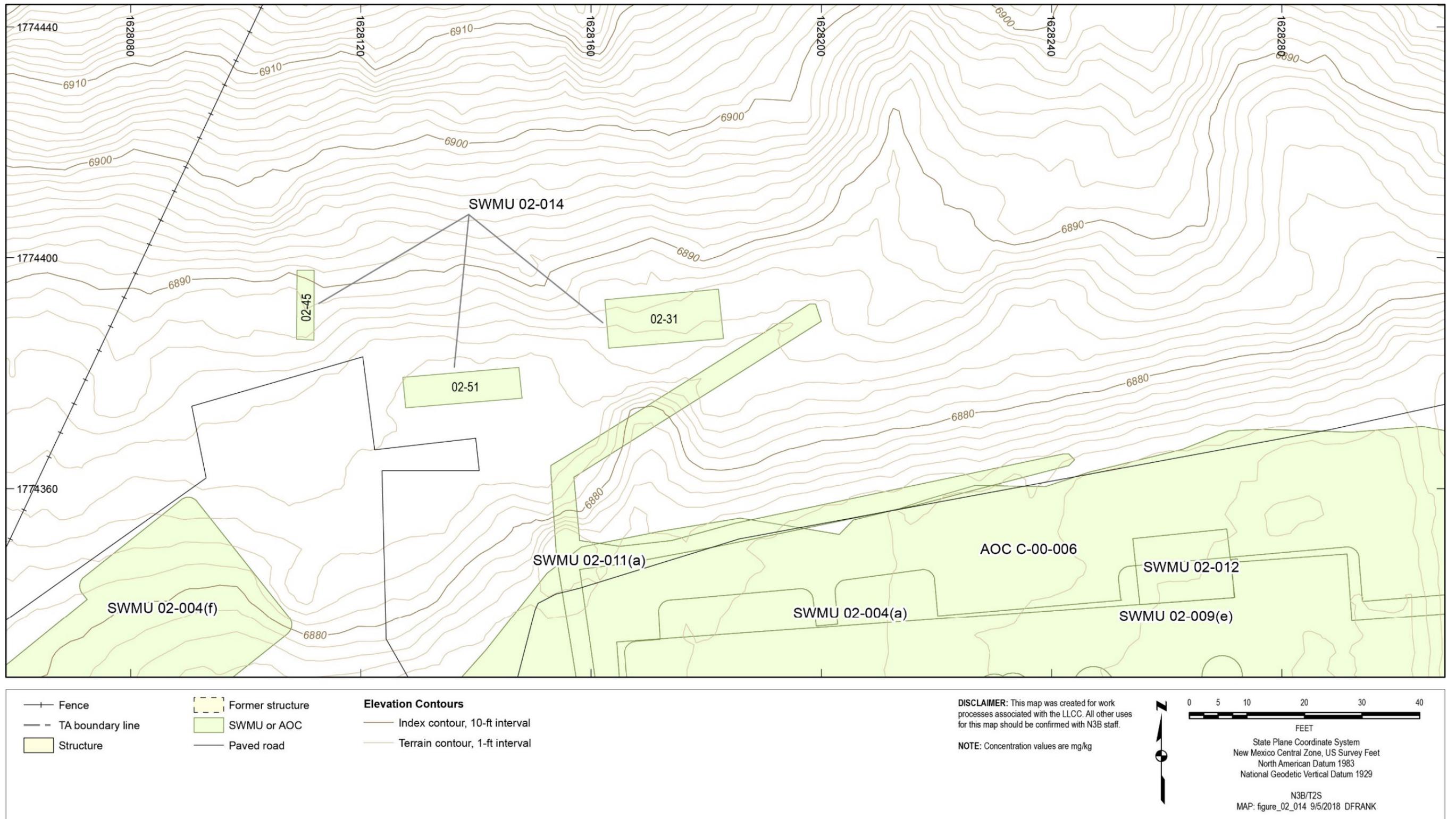


Figure 1 Location of SWMU 02-014 at LANL TA-02

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# **Attachment 1**

Redline of Hazardous Waste Facility Permit, Attachment K, Table K-1



**ATTACHMENT K**  
**LISTING OF SWMUS AND AOCS**

Table K-1  
SWMUs and AOCs Requiring Corrective Action

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

<b>SWMU/AOC</b>	<b>Unit #</b>	<b>Unit Type</b>
<b>TA-0</b>		
SWMU	00-001	Sediment traps in Mortandad Canyon
SWMU	00-011(a)	Former Mortar impact area
SWMU	00-011(c)	Mortar impact area
SWMU	00-011(d)	Mortar impact area
SWMU	00-011(e)	Mortar impact area
AOC	00-015	Firing Range-Rendija Canyon
SWMU	00-017	Waste lines
SWMU	00-018(a)	Former Sludge bed wastewater treatment plant, Pueblo Canyon
AOC	00-018(b)	Sludge-Bed Wastewater Treatment Plant
SWMU	00-019	Former Wastewater treatment plant, central
AOC	00-027	Storage Area-DP Road
SWMU	00-030(a)	Former Septic Tank
SWMU	00-030(b)	Septic Tanks
AOC	00-030(d)	Septic Tank
AOC	00-030(eN)	Septic Tanks
AOC	00-030(eS)	Septic Tank
AOC	00-030(f)	Septic Tank
SWMU	00-030(g)	Former Septic tank (near old Catholic Church parking lot)
AOC	00-030(h)	Former Septic tank (near new Catholic Church)
AOC	00-030(j)	Septic Tank
SWMU	00-030(l)	Septic Tank
SWMU	00-030(m)	Former Septic Tank
AOC	00-030(n)	Former Septic Tank
AOC	00-030(o)	Septic Tank
AOC	00-030(p)	Septic Tank
AOC	00-031(a)	Soil Contamination from former Service Station
AOC	00-031(b)	Soil Contamination from former motor pool facility
SWMU	00-033(a)	Soil contamination from former UST, 6 <sup>th</sup> Street Warehouses
AOC	00-034(b)	Landfill, western area
SWMU	00-039	Soil contamination from former USTs
AOC	C-00-001	Guaje Canyon
AOC	C-00-002	Rendija Canyon
AOC	C-00-003	Barrancas Canyon
AOC	C-00-004	Bayo Canyon
AOC	C-00-005	Pueblo Canyon
AOC	C-00-006	Los Alamos Canyon
AOC	C-00-007	Sandia Canyon
AOC	C-00-008	Mortandad Canyon
AOC	C-00-009	Canada del Buey Canyon
AOC	C-00-010	TwoMile Canyon

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

AOC	C-00-011	Pajarito Canyon
AOC	C-00-012	Three Mile Canyon
AOC	C-00-013	Potrillo Canyon
AOC	C-00-014	Canon de Valle Canyon
AOC	C-00-015	Fence Canyon
AOC	C-00-016	Water Canyon
AOC	C-00-017	Indio Canyon
AOC	C-00-018	Ancho Canyon
AOC	C-00-019	Chaquehui Canyon
AOC	C-00-020	Mortar impact area
AOC	C-00-021	DP Canyon
AOC	C-00-037	Landfill, Bandelier, NM
AOC	C-00-038	Surface Disposal, Bandelier, NM
AOC	C-00-041	Asphalt and tar remnant site
AOC	C-00-042	Former Underground Storage Tank
AOC	C-00-043	Former Manhole
AOC	C-00-044	Soil contamination
<b>TA-1</b>		
SWMU	01-001(a)	Septic Tank 134
SWMU	01-001(b)	Septic Tank 135
SWMU	01-001(c)	Septic Tank 137
SWMU	01-001(d1)	Soil contamination from Septic Tank 138
SWMU	01-001(d2)	Soil contamination from Septic Tank 138
SWMU	01-001(d3)	Soil contamination from Septic Tank 138
SWMU	01-001(e)	Septic Tank 139
SWMU	01-001(f)	Septic Tank 140(hillside)
SWMU	01-001(g)	Septic Tank 141
SWMU	01-001(o)	Waste Line
SWMU	01-001(s1)	Waste Line
SWMU	01-001(s2)	Waste Line
SWMU	01-001(s3)	Waste Line
SWMU	01-001(t)	Waste Line
SWMU	01-001(u)	Waste Lines
SWMU	01-002(a1)-00	Waste Lines
SWMU	01-002(a2)-00	Waste Lines
SWMU	01-002(b)-00	Outfall associated with TA-01 (Located in former TA-45)
SWMU	01-003(a)	Landfill
AOC	01-003(b1)	Surface Disposal Site
AOC	01-003(b2)	Surface Disposal Site
AOC	01-003(c)	Surface Disposal Site
SWMU	01-003(d)	Surface Disposal Site
SWMU	01-003(e)	Surface Disposal Site
SWMU	01-006(a)	Drainline and Outfall

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	01-006(b)	Drainline and Outfall
SWMU	01-006(c)	Drainlines and Outfall
SWMU	01-006(d)	Drainline and Outfall
AOC	01-006(e)	Drainlines and Outfall
AOC	01-006(g)	Storm drains and outfalls
SWMU	01-006(h1)	Storm drain and outfall
SWMU	01-006(h2)	Storm drain and outfall
SWMU	01-006(h3)	Storm drain and outfall
SWMU	01-006(n)	Storm drain and outfall
SWMU	01-006(o)	Storm drains and outfalls
SWMU	01-007(a)	Soil contamination associated with TA-1 Buildings and Structures
SWMU	01-007(b)	Soil contamination associated with TA-1 Buildings and Structures
SWMU	01-007(c)	Soil contamination associated with TA-1 Buildings and Structures
SWMU	01-007(d)	Soil contamination associated with TA-1 Buildings and Structures
SWMU	01-007(e)	Soil contamination associated with TA-1 Buildings and Structures
SWMU	01-007(j)	Soil contamination associated with TA-1 Buildings and Structures
AOC	01-007(k)	Soil Contamination Area
SWMU	01-007(l)	Soil contamination associated with TA-1 Buildings and Structures
<b>TA-2</b>		
AOC	02-003(a)	Soil contamination associated with former valve house and gaseous effluent line
AOC	02-003(b)	Soil contamination associated with former condensate trap
AOC	02-003(c)	Soil contamination associated with former delay system
AOC	02-003(d)	Soil contamination associated with former gaseous effluent line
AOC	02-003(e)	Soil contamination associated with former holding tank (near water boiler reactor)
AOC	02-004(a)	Former Omega West reactor facility
AOC	02-004(b)	Former Reactor facility effluent storage tank TA-2-54
AOC	02-004(c)	Former Reactor facility effluent storage tank TA-2-55
AOC	02-004(d)	Former Reactor facility effluent storage tank TA-2-56
AOC	02-004(e)	Former Reactor facility acid pit TA-2-53
AOC	02-004(f)	Former Reactor facility equipment building
AOC	02-004(g)	Soil contamination associated with former aboveground tank
SWMU	02-005	Soil contamination from Drift loss, cooling tower blowdown
SWMU	02-006(a)	Former French drain
SWMU	02-006(b)	Former Acid waste line
AOC	02-006(c)	Former Drainline
AOC	02-006(d)	Drainline
AOC	02-006(e)	Former sump
SWMU	02-007	Soil contamination from former septic system
SWMU	02-008(a)	Outfall from Structure 02-49
AOC	02-008(c)	Outfall from Building 2-1
SWMU	02-009(a)	Soil contamination associated with former water boiler reactor

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	02-009(b)	Soil contamination associated with former water boiler reactor
SWMU	02-009(c)	Soil contamination associated with condensate trap and leach field
AOC	02-009(d)	Soil contamination
AOC	02-009(e)	Soil contamination (duplicate of SWMU 02-009(c))
AOC	02-010	Soil contamination associated with former chemical stack 2-3
AOC	02-011(a)	Storm drains associated with former Building 2-1
AOC	02-011(b)	Former drains
AOC	02-011(c)	Storm drain
AOC	02-011(d)	Outfall from Building 2-44
AOC	02-011(e)	Outfall from Structure 2-49 (duplicate of 02-008(a))
AOC	02-012	Soil contamination from former underground tanks
<b>SWMU</b>	<b>02-014</b>	<b>Soil contamination associated with former transformer sites</b>
<b>TA-3</b>		
AOC	03-001(e)	Storage Area
AOC	03-001(i)	Storage Area
SWMU	03-001(k)	-Storage Area
SWMU	03-002(c)	Storage area
SWMU	03-003(a)	Storage area
SWMU	03-003(b)	Storage area
SWMU	03-003(c)	Storage Area
AOC	03-003(d)	Storage area
AOC	03-003(e)	Storage area
AOC	03-003(f)	Storage area
AOC	03-003(g)	-Storage area
AOC	03-003(h)	Storage area
AOC	03-003(i)	Storage area
AOC	03-003(j)	Storage area
AOC	03-003(k)	Storage area
AOC	03-003(l)	Storage area
AOC	03-003(n)	Storage area
AOC	03-003(o)	Storage area
AOC	03-003(p)	Storage area
AOC	03-004(c)	Storage area
AOC	03-004(d)	Storage area
AOC	03-007	Firing site
AOC	03-008(a)	Firing site
SWMU	03-009(a)	Surface disposal site
SWMU	03-009(i)	Surface disposal site
SWMU	03-009(j)	Surface disposal site
SWMU	03-010(a)	Former Vacuum repair shop outfall
SWMU	03-011	Operational release
SWMU	03-012(b)	Operational release

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	03-013(a)	Storm drain
AOC	03-013(b)	Floor Drains
SWMU	03-013(i)	Operational release from former Buildings 3-246 and 3-247
SWMU	03-014(a)	Imhoff tank associated with former WWTP
AOC	03-014(a2)	Drain associated with former WWTP
SWMU	03-014(b)	Dosing siphon associated with former WWTP
AOC	03-014(b2)	Outfall associated with former WWTP
SWMU	03-014(c)	Trickling filter associated with former WWTP
AOC	03-014(c2)	Outfall associated with former WWTP
SWMU	03-014(d)	Clarifying tank associated with former WWTP
SWMU	03-014(e)	Imhoff tank associated with former WWTP
SWMU	03-014(f)	Dosing siphon associated with former WWTP
SWMU	03-014(g)	Trickling filter associated with former WWTP
SWMU	03-014(h)	Clarifying tank associated with former WWTP
SWMU	03-014(i)	Splitter box and bar rack associated with former WWTP
SWMU	03-014(j)	Chlorination system associated with former WWTP
SWMU	03-014(k)	Sludge drying bed associated with former WWTP
SWMU	03-014(l)	Sludge drying bed associated with former WWTP
SWMU	03-014(m)	Sludge drying bed associated with former WWTP
SWMU	03-014(n)	Sludge drying bed associated with former WWTP
SWMU	03-014(o)	Sludge drying bed associated with former WWTP
SWMU	03-014(p)	Lift station associated with former WWTP
SWMU	03-014(q)	Holding tank
SWMU	03-014(r)	Lift station associated with former WWTP
SWMU	03-014(s)	Lift station associated with former WWTP
SWMU	03-014(t)	Lift station associated with former WWTP
SWMU	03-014(u)	Holding tank associated with former WWTP
AOC	03-014(v)	Drain associated with former WWTP
AOC	03-014(w)	Drain associated with former WWTP
AOC	03-014(x)	Drain associated with former WWTP
AOC	03-014(y)	Drain associated with former WWTP
AOC	03-014(z)	Drain associated with former WWTP
SWMU	03-015	Outfall
SWMU	03-021	Outfall from Building 3-170
AOC	03-022	Former Sump
SWMU	03-025(b)	Sumps
AOC	03-025(c)	Oil/water separator
AOC	03-026(a)	Sump
SWMU	03-026(c)	Tanks
SWMU	03-026(d)	Sump
AOC	03-027	Lift Wells
SWMU	03-028	Surface Impoundment
SWMU	03-029	Asphalt Batch Plant (Disposal Area)

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	03-031	Tanks and associated equipment
SWMU	03-033	Former Tanks and Sumps
SWMU	03-034(a)	Tank and/or associated equipment, radioactive liquid waste tanks
SWMU	03-034(b)	Tank and associated equipment
SWMU	03-036(a)	Soil contamination from former aboveground tanks
AOC	03-036(b)	Former aboveground tanks
SWMU	03-036(c)	Soil contamination from former aboveground tank (duplicated of 03-043(f))
SWMU	03-036(d)	Soil contamination from former aboveground tank (duplicated of 03-043(g))
SWMU	03-037	Underground tanks
SWMU	03-038(a)	Soil contamination from former Building 3-700
SWMU	03-038(b)	Soil contamination from former acid tank
AOC	03-038(c)	Waste lines
AOC	03-038(d)	Waste lines
AOC	03-038(f)	Drainline
AOC	03-041	Underground tank
AOC	03-042	Soil contamination from former sump
AOC	03-043(a)	Soil contamination from former aboveground tank
AOC	03-043(b)	Soil contamination from former aboveground tank
SWMU	03-043(c)	Soil contamination from former manhole
AOC	03-043(d)	Soil contamination from former aboveground tank
AOC	03-043(f)	Soil contamination from former aboveground tank
AOC	03-043(g)	Soil contamination from former aboveground tank
AOC	03-043(h)	Soil contamination from former aboveground tank
SWMU	03-045(a)	Outfall from Building 3-22
SWMU	03-045(b)	Operational release
SWMU	03-045(c)	Outfall from structure 3-285
SWMU	03-045(e)	Outfall from Building 3-57
SWMU	03-045(f)	Outfall from Building 3-223
SWMU	03-045(g)	Storm drain
SWMU	03-045(h)	Outfall from cooling tower 3-187
SWMU	03-046	Above ground wastewater treatment tank
AOC	03-047(d)	Soil contamination from former storage area
AOC	03-047(g)	Soil contamination from former storage area
SWMU	03-049(a)	Outfall from cooling tower 3-127 and Building 3-66
SWMU	03-049(b)	Soil contamination from discharge area
SWMU	03-049(e)	Outfall
SWMU	03-050(a)	Soil contamination from TA-3 exhaust emissions
SWMU	03-050(d)	Soil contamination from TA-3 exhaust emissions
SWMU	03-050(f)	Soil contamination from TA-3 exhaust emissions
SWMU	03-050(g)	Soil contamination from TA-3 exhaust emissions
AOC	03-051(a)	Soil contamination from leaking compressor

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

AOC	03-051(b)	Soil contamination from leaking compressor
AOC	03-051(c)	Soil contamination from vacuum pump leaking
SWMU	03-052(a)	Storm drain
AOC	03-052(b)	Storm drainage
SWMU	03-052(e)	Storm drain
SWMU	03-052(f)	Outfall from Building 3-38
AOC	03-053	Building 3-141 basement area and floor drains
SWMU	03-054(a)	Outfall associated with cooling tower 3-19
SWMU	03-054(b)	Outfall from Building 3-38
SWMU	03-054(c)	Outfall from former cooling tower 3-156
SWMU	03-054(d)	Outfall from Building 3-16
SWMU	03-054(e)	Outfall from Building 3-29
SWMU	03-055(a)	Outfall from Building 3-16
SWMU	03-055(c)	Outfall associated with drains of Fire Station 3-41
SWMU	03-056(a)	Oil Storage Facility
SWMU	03-056(c)	Transformer storage area
SWMU	03-056(d)	Drum storage
AOC	03-056(h)	Storage Area
AOC	03-056(k)	Container storage area
SWMU	03-056(l)	Cotnainer Storage Area
SWMU	03-059	Storage area
AOC	C-03-006	Spill/Non-Intentional Release Area
AOC	C-03-014	Equipment Storage area
AOC	C-03-016	Former Oil metal bin
AOC	C-03-022	Former Kerosene tanker trailer
<b>TA-4</b>		
SWMU	04-001	Firing site
SWMU	04-002	Surface Disposal site
SWMU	04-003(a)	Outfall associated with former Photo-processing Building 4-07
SWMU	04-003(b)	Drainline and outfall from former Building 4-03
AOC	04-004	Soil contamination from former photo-processing Building 4-07
<b>TA-5</b>		
SWMU	05-001(a)	Firing site
SWMU	05-001(b)	Firing site
AOC	05-001(c)	Firing site
SWMU	05-002	Canyon side disposal site
SWMU	05-003	Calibration Chamber
SWMU	05-004	Septic Tank
SWMU	05-005(a)	Soil contamination from former French Drain
SWMU	05-005(b)	Outfall associated with former Building 5-05
SWMU	05-006(b)	Soil Contamination from former Building 5-04
SWMU	05-006(c)	Soil Contamination from former Building 5-05
SWMU	05-006(e)	Soil Contamination from former Building 5-19

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	05-006(h)	Soil contamination from former Building 5-09
<b>TA-6</b>		
SWMU	06-001(a)	Septic system
SWMU	06-001(b)	Septic system
SWMU	06-002	Septic System
SWMU	06-003(a)	Firing site
SWMU	06-003(c)	Firing site
SWMU	06-003(d)	Firing site
SWMU	06-003(e)	Firing site
SWMU	06-003(f)	Firing site
SWMU	06-003(h)	Firing site
SWMU	06-005	Firing Site
SWMU	06-006	Storage Area
SWMU	06-007(a)	MDA F
SWMU	06-007(b)	Landfill
SWMU	06-007(c)	Landfill
SWMU	06-007(d)	Landfill
SWMU	06-007(e)	Landfill
SWMU	06-007(f)	Surface disposal
SWMU	06-007(g)	Soil contamination from former Building 6-12
AOC	06-008	Soil contamination from former underground storage tank
AOC	C-06-001	Soil contamination from former storage magazine 6-4
AOC	C-06-003	Building TA-6-11 – Control Building for explosive shots
AOC	C-06-005	Soil Contamination from former Building 06-13
<b>TA-7</b>		
SWMU	07-001(a)	Firing Site
SWMU	07-001(b)	Firing Site
SWMU	07-001(c)	Firing Site
SWMU	07-001(d)	Firing Site
<b>TA-8</b>		
AOC	08-001(a)	Off-gas system
AOC	08-001(b)	Off-gas system
SWMU	08-002	Firing site
SWMU	08-003(a)	Former septic tank
SWMU	08-004(a)	Floor drain
SWMU	08-004(b)	Drainline
SWMU	08-004(c)	Floor drain and sumps
SWMU	08-004(d)	Drain
SWMU	08-005	Former storage vessel
SWMU	08-006(a)	Material disposal area (MDA) Q
SWMU	08-009(a)	Drainline and outfall
AOC	08-009(c)	Storm drain and outfall from Building 8-23
SWMU	08-009(d)	Drains

**Table K-1**

**SWMUs and AOCs Requiring Corrective Action**

SWMU	08-009(e)	Outfall from Building 8-21
AOC	08-009(f)	Outfall associated with Building 8-22
AOC	C-08-014	Laboratory and Administrative Building 8-21
<b>TA-9</b>		
SWMU	09-001(a)	Soil contamination from firing site and former firing site structure 9-04
SWMU	09-001(b)	Firing Site
SWMU	09-001(c)	Firing site
SWMU	09-001(d)	Firing site
SWMU	09-002	Burn pit
SWMU	09-003(a)	Soil contamination associate with former settling tank
SWMU	09-003(b)	Soil contamination associate with former settling tank
SWMU	09-003(d)	Soil contamination associate with former settling tank
SWMU	09-003(e)	Soil contamination associated with former Basket Pit
SWMU	09-003(g)	Soil contamination associated with former Sump and pipes
SWMU	09-003(h)	Soil contamination associated with former Sump and pipes
SWMU	09-003(i)	Soil Contamination associated with former Sump and Pipes
SWMU	09-004(a)	Settling tank
SWMU	09-004(b)	Settling tank
SWMU	09-004(c)	Settling tank
SWMU	09-004(d)	Settling tank
SWMU	09-004(e)	Settling tank
SWMU	09-004(f)	Settling tank
SWMU	09-004(g)	Settling tank
SWMU	09-004(h)	Settling tank
SWMU	09-004(i)	Settling tank
SWMU	09-004(j)	Settling tank
SWMU	09-004(k)	Settling tank
SWMU	09-004(l)	Settling tank
SWMU	09-004(m)	Settling tank
SWMU	09-004(n)	Settling tank
SWMU	09-004(o)	Settling tank
SWMU	09-005(a)	Soil contamination from former septic tank
SWMU	09-005(d)	Septic Tank
SWMU	09-005(g)	Settling Tank
SWMU	09-006	Soil contamination associated with former septic tank
SWMU	09-008(b)	Oxidation Pond
SWMU	09-009	Surface impoundment
AOC	09-010(a)	Storage Area
AOC	09-010(b)	Storage Area
AOC	09-011(b)	Storage area
AOC	09-011(c)	Storage area
AOC	09-012	Disposal Pit

**Table K-1**

**SWMUs and AOCs Requiring Corrective Action**

SWMU	09-013	Material Disposal Area (MDA) M
AOC	09-014	Soil contamination associated with former Camera Mount
SWMU	C-09-001	Soil contamination associated with outfall
<b>TA-10</b>		
SWMU	10-001(a)	Firing site
SWMU	10-001(b)	Firing site
SWMU	10-001(c)	Firing site
SWMU	10-001(d)	Firing site
SWMU	10-002(a)	Disposal Pit
SWMU	10-002(b)	Disposal Pit
SWMU	10-003(a)	Soil contamination from former disposal pit
SWMU	10-003(b)	Soil contamination from former disposal pit
SWMU	10-003(c)	Soil contamination from former disposal pit
SWMU	10-003(d)	Soil contamination from former disposal pit
SWMU	10-003(e)	Soil contamination from disposal pit
SWMU	10-003(f)	Soil contamination from former disposal pit
SWMU	10-003(g)	Soil contamination from former manhole
SWMU	10-003(h)	Soil contamination from former manhole
SWMU	10-003(i)	Soil contamination from former septic tank
SWMU	10-003(j)	Soil contamination from former tank
SWMU	10-003(k)	Soil contamination from former tank
SWMU	10-003(l)	Soil contamination from former tank
SWMU	10-003(m)	Soil contamination from former waste line
SWMU	10-003(n)	Soil contamination from former leach field
SWMU	10-003(o)	Soil contamination from Decontamination Holes associated with former leach field
SWMU	10-004(a)	Soil contamination from former septic tank
SWMU	10-004(b)	Septic System
SWMU	10-005	Surface disposal
SWMU	10-006	Burn site
SWMU	10-007	Landfill
SWMU	10-008	Tree-rimmed firing point, Bayo Canyon
SWMU	10-009	Former Bayo Canyon Landfill-
AOC	C-10-001	Contaminated soil, Bayo Canyon
<b>TA-11</b>		
SWMU	11-001(a)	Firing site
SWMU	11-001(b)	Firing site
SWMU	11-001(c)	Firing site
SWMU	11-002	Burn Site
AOC	11-003(b)	Air Gun
SWMU	11-004(a)	Drop tower
SWMU	11-004(b)	Concrete Pad
SWMU	11-004(c)	Hoist

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	11-004(d)	Hoist
SWMU	11-004(e)	Drop Pad
AOC	11-004(f)	Drop Pad
SWMU	11-005(a)	Septic system
SWMU	11-005(b)	Septic system
SWMU	11-005(c)	Outfall from former Building 11-2
SWMU	11-006(a)	Sump
SWMU	11-006(b)	Catch Basin System
SWMU	11-006(c)	Catch Basin System
SWMU	11-006(d)	Catch Basin System
SWMU	11-009	Material disposal area (MDA) S
SWMU	11-011(a)	Outfall from Building 11-30
SWMU	11-011(b)	Outfall from Building 11-30A
SWMU	11-011(d)	Outfall from Building 11-24
AOC	11-012(a)	Soil contamination associated with former Structure 11-7
AOC	11-012(b)	Soil contamination associated with former Structure 11-8
AOC	11-012(c)	Soil contamination associated with former Structure 11-9
AOC	11-012(d)	Soil contamination associated with former Structure 11-10
AOC	C-11-001	Soil contamination associated with former Structure 11-5
AOC	C-11-002	Soil contamination associated with former Structure 11-12
<b>TA-12</b>		
SWMU	12-001(a)	Firing site Steel-lined container
SWMU	12-001(b)	Firing site
SWMU	12-002	Burn Site
AOC	12-004(a)	Radiation test facility
AOC	12-004(b)	Pipe
AOC	C-12-001	Soil contamination associated with former Trim Building 12-1
AOC	C-12-002	Soil contamination associated with former Control Building 12-2
AOC	C-12-003	Soil contamination associated with former Storage Building 12-3
AOC	C-12-004	Soil contamination associated with former Generator Building 12-5
AOC	C-12-005	Soil contamination associated with former Junction box 12-6
<b>TA-13</b>		
SWMU	13-001	Firing site
SWMU	13-002	Landfill
SWMU	13-003(a)	Soil contamination from a former septic tank
AOC	13-003(b)	Drain field
SWMU	13-004	Disposal pit - existence not determined
<b>TA-14</b>		
AOC	14-001(a)	Firing site
AOC	14-001(b)	Firing site
AOC	14-001(c)	Firing site
AOC	14-001(d)	Firing site

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

AOC	14-001(e)	Firing site
AOC	14-001(f)	Firing site
AOC	14-001(g)	Firing site
SWMU	14-002(a)	Firing site
SWMU	14-002(b)	Firing site
SWMU	14-002(c)	Control Building 14--5
SWMU	14-002(d)	Firing site
SWMU	14-002(e)	Firing site
SWMU	14-002(f)	Soil contamination associated with former Junction Box 14-12
SWMU	14-003	Open burning ground
AOC	14-004(a)	Storage area
SWMU	14-005	Burn Cage for OB/OD unit TA-14-23
SWMU	14-006	Sump and/or associated equipment
SWMU	14-007	Septic system
SWMU	14-009	Surface Disposal Site
SWMU	14-010	Soil contamination from former Sump and Drain lines
AOC	C-14-001	Soil contamination associated with former Magazine 14-1
AOC	C-14-002	Soil contamination associate with former Building 14-3
AOC	C-14-003	Soil contamination associated with former Sturcture 14-4
AOC	C-14-004	Soil contamination associated with former Electronics Shop 14-7
AOC	C-14-005	Soil contamination associated with former Storage Building 14-8
AOC	C-14-006	Soil contamination associated with former Magazine 14-9
AOC	C-14-007	Soil contamination associated with former Storage Building 14-10
AOC	C-14-008	Soil contamination associated with former Magazine 14-11
AOC	C-14-009	Soil contamination associated with former Magazine 14-13
<b>TA-15</b>		
AOC	15-001	Surface disposal Site
SWMU	15-002	Burn Site
SWMU	15-003	Phermex Firing Site (TA-15-184)
SWMU	15-004(a)	Firing Site C
SWMU	15-004(b)	Firing Site A
SWMU	15-004(c)	Firing Site B
AOC	15-004(d)	Firing site C
SWMU	15-004(f)	Firing site E-F
SWMU	15-004(g)	Firing site G
AOC	15-004(h)	Firing site H
SWMU	15-004(i)	The Gulch firing site
AOC	15-005(b)	Container storage area
AOC	15-005(c)	Container storage area (R-41)
SWMU	15-006(a)	Phermex Firing Site (TA-15-184)
SWMU	15-006(b)	Firing Site Ector
SWMU	15-006(c)	Firing site (R-44)

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	15-006(d)	Firing site (R-45)
AOC	15-006(e)	I-J Firing Site at TA-36 , duplicate of C-36-006(e)
SWMU	15-007(a)	Material Disposal Area (MDA) N
SWMU	15-007(b)	Material disposal area (MDA) Z
SWMU	15-007(c)	Shaft
SWMU	15-007(d)	Shaft
SWMU	15-008(a)	Surface Disposal Site (E-F Site)
SWMU	15-008(b)	Surface Disposal Site
SWMU	15-008(c)	Surface Disposal Site
SWMU	15-008(d)	Surface Disposal Site
AOC	15-008(f)	I-J Firing site mounds at TA-36
AOC	15-008(g)	Surface Disposal Site
SWMU	15-009(a)	Former structures - the Hollow
SWMU	15-009(b)	Septic system
SWMU	15-009(c)	Septic system
SWMU	15-009(e)	Septic system
SWMU	15-009(f)	Firing site septic system
SWMU	15-009(g)	Septic system
SWMU	15-009(h)	Septic system
SWMU	15-009(i)	Septic system
SWMU	15-009(k)	Firing site septic system (renumbered from 15-009(l))
SWMU	15-010(a)	Septic system
SWMU	15-010(b)	Septic system
SWMU	15-011(a)	Concrete Trench Drains
SWMU	15-011(b)	Drainage channel
SWMU	15-011(c)	Outfall
SWMU	15-014(a)	Outfalls from Building 15-183
SWMU	15-014(b)	Outfalls from Building 15-183
AOC	15-014(d)	Drainage
AOC	15-014(g)	Outfall from Building 15-203
AOC	15-014(h)	Outfalls from Building 15-40
SWMU	15-014(i)	Outfall from former Building 15-194 (renumbered from 15-012(f))
SWMU	15-014(j)	Outfalls from former Building 15-50 (renumbered from 15-012(g))
SWMU	15-014(k)	Outfalls from former Building 15-20 (renumbered from 15-012(d))
SWMU	15-014(l)	Outfalls from former Building 15-202 (renumbered from 15-012(e))
AOC	C-15-001	Contaminated soil near Firing Site
AOC	C-15-004	Former Transformer Station
AOC	C-15-005	Soil contamination associate with former laboratory and building
AOC	C-15-006	Soil contamination associate with former Building 15-7
AOC	C-15-007	Non-intentional release area

**Table K-1**

**SWMUs and AOCs Requiring Corrective Action**

AOC	C-15-010	Former underground tank
AOC	C-15-011	Former underground tank
<b>TA-16</b>		
SWMU	16-001(a)	Tank
SWMU	16-001(b)	Dry Wells
SWMU	16-001(c)	Tank
SWMU	16-001(d)	Dry well
SWMU	16-001(e)	Dry Well
SWMU	16-003(a)	Sump
SWMU	16-003(b)	Sump
SWMU	16-003(c)	Sump
SWMU	16-003(d)	Sumps
SWMU	16-003(e)	Sumps
SWMU	16-003(f)	Sumps
SWMU	16-003(g)	Sumps
SWMU	16-003(h)	Sump
SWMU	16-003(i)	Sump
SWMU	16-003(j)	Sump
SWMU	16-003(k)	Sumps
SWMU	16-003(l)	Sumps
SWMU	16-003(m)	Sump
SWMU	16-003(n)	Sump
SWMU	16-003(o)	Sumps
AOC	16-003(p)	Sump
AOC	16-003(q)	Sump
SWMU	16-004(a)	Imhoff Tank
SWMU	16-004(b)	Trickling Filter
SWMU	16-004(c)	Tank
SWMU	16-004(d)	Sludge Drying Bed
SWMU	16-004(e)	Screen
SWMU	16-004(f)	Sludge Drying Bed
SWMU	16-005(a)	Septic tank
SWMU	16-005(c)	Soil contamination from former septic tank
SWMU	16-005(d)	Soil contamination from former septic tank
SWMU	16-005(e)	Soil contamination from former septic tank
SWMU	16-005(g)	Soil contamination from former Filter Bed
SWMU	16-005(h)	Soil contamination from former septic tank
SWMU	16-005(j)	Soil contamination from former septic tank
SWMU	16-005(k)	Soil contamination from former septic tank
SWMU	16-005(l)	Grease trap
SWMU	16-005(m)	Soil contamination from former Sump
SWMU	16-005(n)	Soil contamination from former septic tank
SWMU	16-006(a)	Septic Tank

**Table K-1**

**SWMUs and AOCs Requiring Corrective Action**

SWMU	16-006(c)	Septic Tank
SWMU	16-006(d)	Septic Tank
SWMU	16-006(e)	Former Septic Tank
SWMU	16-006(g)	Septic Tank
SWMU	16-006(h)	Pump Pit
SWMU	16-007(a)	Settling Ponds
SWMU	16-008(a)	Settling Pond
SWMU	16-009(a)	Former Burn site
SWMU	16-010(a)	Burn Site
SWMU	16-010(h)	Former Basket-Wash facility
SWMU	16-010(i)	Burn Pad
SWMU	16-010(k)	Former trough
SWMU	16-010(l)	Former trough
SWMU	16-010(m)	Former trough
SWMU	16-010(n)	Former trough
AOC	16-011	Former Incinerator
SWMU	16-013	Container Storage Area
SWMU	16-015(a)	Soil contamination from former Men's locker room and laundry facility
SWMU	16-015(b)	Soil contamination associated with former Steam-washing facility
AOC	16-015(c)	Soil contamination from former Building 16-36
AOC	16-015(d)	Soil contamination from former steam-cleaning Building 16-51
SWMU	16-016(a)	Landfill - buried metal site
SWMU	16-016(b)	Surface Disposal Site
SWMU	16-016(c)	Soil contamination from former Barium Nitrate Storage Area/Pile
SWMU	16-016(d)	Surface disposal site
SWMU	16-016(e)	Surface disposal site
AOC	16-016(f)	Surface Disposal Site
SWMU	16-016(g)	Surface disposal site
SWMU	16-017(a)-99	Soil contamination from former HE Machining Building 16-92
SWMU	16-017(b)-99	Soil contamination from former HE Machining Building 16-93
SWMU	16-017(c)-99	Soil contamination from former HE Machining Building 16-91
SWMU	16-017(d)-99	Soil contamination from former HE Machining Building 16-90
SWMU	16-017(e)-99	Soil contamination from former HE Machining Building 16-89
SWMU	16-017(f)-99	Soil contamination from former HE Machining Building 16-99
SWMU	16-017(g)-99	Former storage magazine
SWMU	16-017(h)-99	Soil contamination from former HE Casting Building 16-27
SWMU	16-017(i)-99	Former storage building
SWMU	16-017(j)-99	Former storage magazine 16-63
SWMU	16-017(k)-99	Former storage magazine 16-78
SWMU	16-017(l)-99	Former storage magazine 16-77
SWMU	16-017(m)-99	Former storage magazine 16-76
SWMU	16-017(n)-99	Former storage magazine 16-75

**Table K-1**

**SWMUs and AOCs Requiring Corrective Action**

SWMU	16-017(o)-99	Former storage magazine 16-59
SWMU	16-017(p)-99	Former storage magazine 16-61
SWMU	16-017(q)-99	Storage Magazine
SWMU	16-017(r)-99	Former Assembly Site/Storage Building 16-520
SWMU	16-017(s)-99	Former Assembly Site/Storage Building 16-519
SWMU	16-017(t)-99	Former Assembly Site/Storage Building 16-516
SWMU	16-017(u)-99	Soil contamination from former Storage and Support Structure 16-164
SWMU	16-017(v)-99	Soil contamination from former HE Processing Building
SWMU	16-017(w)-99	Former Storage Magazine 16-73
SWMU	16-017(x)-99	Soil Contamination from former Storage Magazine 16-79
SWMU	16-019	Material disposal area (MDA) R (includes SWMU 16-009(b))
SWMU	16-020	Outfall from former 16-222
SWMU	16-021(a)	Operational release associated with Building 16-450
AOC	16-021(b)	Operational Release
SWMU	16-021(c)	Outfall associated with Building 16-260
AOC	16-022(a)	Former Underground Storage Tank
AOC	16-022(b)	Former Underground Storage Tank
AOC	16-023(b)	Soil contamination from former Incinerator
AOC	16-024(a)	Soil contamination from former Magazine 16-488
AOC	16-024(b)	Soil contamination from former Magazine 16-74
AOC	16-024(c)	Soil contamination from former Magazine 16-30
AOC	16-024(d)	Soil contamination from former Magazine 16-34
SWMU	16-024(e)	Soil contamination from former Magazine 16-33
AOC	16-024(f)	Soil contamination from former Magazine 16-493
AOC	16-024(g)	Soil contamination from former Magazine 16-494
AOC	16-024(h)	Soil contamination from former Magazine 16-497
AOC	16-024(i)	Soil contamination from former Magazine 16-64
AOC	16-024(j)	Soil contamination from former Magazine 16-65
AOC	16-024(k)	Soil contamination from former Magazine 16-57
AOC	16-024(l)	Soil contamination from former Magazine 16-72
AOC	16-024(m)	Soil contamination from former Magazine 16-66
AOC	16-024(n)	Soil contamination from former Magazine 16-84
AOC	16-024(o)	Soil contamination from former Magazine 16-67
AOC	16-024(p)	Soil contamination from former Magazine 16-70
AOC	16-024(q)	Soil contamination from former Magazine 16-71
AOC	16-024(r)	Soil contamination from former Magazine 16-68
AOC	16-024(s)	Soil contamination from former Magazine 16-60
AOC	16-024(t)	Soil contamination from former Magazine 16-464
AOC	16-024(u)	Soil contamination from former Magazine 16-481
AOC	16-024(v)	Soil contamination from former Magazine 16-62
SWMU	16-025(a)	Soil contamination from former Radiography Building 16-39
SWMU	16-025(a2)	Soil contamination from former HE casting Building 16-50

**Table K-1**

**SWMUs and AOCs Requiring Corrective Action**

SWMU	16-025(b)	Soil contamination from former Radiography Building 16-40
SWMU	16-025(b2)	Soil contamination from former HE casting Building 16-52
SWMU	16-025(c2)	Soil contamination from former Building 16-56
SWMU	16-025(d)	Soil contamination from former Equipment and Control Building 16-94
SWMU	16-025(d2)	Soil contamination from former Structure 16-480
SWMU	16-025(e)	Soil contamination from former HE Machining building 16-31
SWMU	16-025(f)	Soil contamination from former HE Machining building 16-32
SWMU	16-025(g)	Soil contamination from former HE machining Building 16-95
SWMU	16-025(h)	Soil contamination from former HE Machining Building 16-96
SWMU	16-025(i)	Soil contamination from former HE Machining Building 16-97
SWMU	16-025(j)	Soil contamination from former HE Machining Building 16-98
SWMU	16-025(k)	Soil contamination from former HE Powder Inspection Building 16-25
SWMU	16-025(l)	Soil contamination from former HE Casting Building 16-26
SWMU	16-025(m)	Soil contamination from former X-ray hutment 16-495
SWMU	16-025(n)	Soil contamination from former X-ray hutment 16-499
SWMU	16-025(o)	Soil contamination from former X-ray hutment 16-500
SWMU	16-025(p)	Soil contamination from former HE processing Building 16-44
SWMU	16-025(q)	Soil contamination from former HE processing Building 16-45
SWMU	16-025(r)	Soil contamination from former Rest House 16-46
SWMU	16-025(s)	Soil contamination from former Radium Source Building 16-48
SWMU	16-025(t)	Soil contamination from former HE equipment casting Building 16-38
SWMU	16-025(u)	Soil contamination from former HE processing Building 16-42
SWMU	16-025(v)	Soil contamination from former HE processing Building 16-81
SWMU	16-025(w)	Soil contamination from former Building 16-81
SWMU	16-025(x)	Soil contamination from former Electroplating Laboratory 16-100
SWMU	16-025(y)	Soil contamination from former HE grinding facility 16-55
SWMU	16-025(z)	Soil contamination from former HE explosives Testing Building 16-37
SWMU	16-026(a)	Outfall from Building 16-370
SWMU	16-026(b)	Outfall from Structure 16-307
SWMU	16-026(b2)	Outfall from Building 16-202
SWMU	16-026(c)	Outfall from Building 16-305 Drain
SWMU	16-026(c2)	Outfall from Building 16-462
SWMU	16-026(d)	Outfall from Building 16-303
SWMU	16-026(e)	Outfall from Structure 16-301
SWMU	16-026(f)	Outfall from Building 16-308
SWMU	16-026(g)	Outfall from Structure 16-280
SWMU	16-026(h2)	Outfall associated with Building 16-360
SWMU	16-026(i)	Outfall from former Building 16-224
SWMU	16-026(j)	Outfall from former Building 16-226
SWMU	16-026(j2)	Outfall from former Building 16-345

**Table K-1**

**SWMUs and AOCs Requiring Corrective Action**

SWMU	16-026(k2)	Outfall from former Building 16-260
SWMU	16-026(l)	Outfalls associated with former Building 16-220
SWMU	16-026(m)	Outfall associated with former Building 16-92
SWMU	16-026(n)	Outfall associated with former Building 16-91
SWMU	16-026(o)	Outfall associated with former Building 16-90
SWMU	16-026(p)	Outfall associated with former Building 16-89
SWMU	16-026(q)	Outfall from former Building 16-27
SWMU	16-026(r)	Outfall from Building 16-180 Drain
SWMU	16-026(s)	Outfall from Building 16-5
SWMU	16-026(u)	Outfall from former Building 16-195 Drain
SWMU	16-026(v)	Outfall from Building 16-460
SWMU	16-026(w)	Outfall from former Building 16-45
SWMU	16-026(y)	Outfall from Building 16-411
SWMU	16-026(z)	Outfall from Building 16-306
AOC	16-027(a)	Transformer
AOC	16-027(b)	Transformer
AOC	16-027(c)	Transformer
AOC	16-027(d)	Transformer
SWMU	16-028(a)	Drainage Channel
SWMU	16-028(b)	Outfall from Building 16-370
SWMU	16-028(c)	Outfall from former Building 16-220
SWMU	16-028(d)	Outfall from former Building 16-202
SWMU	16-028(e)	Outfall associated with Building 16-450
SWMU	16-029(a)	Sumps
SWMU	16-029(a2)	Sump
SWMU	16-029(b)	Sumps
SWMU	16-029(b2)	Sump
SWMU	16-029(c)	Sumps
SWMU	16-029(c2)	Sumps
SWMU	16-029(d)	Sumps
SWMU	16-029(d2)	Sumps
SWMU	16-029(e)	Sump
SWMU	16-029(e2)	Sumps
SWMU	16-029(f)	Sump
SWMU	16-029(f2)	Soil contamination from former Sump and Outfall from former Building 16-24
SWMU	16-029(g)	Former Sump
SWMU	16-029(g2)	Pit
SWMU	16-029(h)	Outfall from former Building 16-478
SWMU	16-029(h2)	Soil contamination from former manhole associated with former Buildings 16-95, -96, -97, -98
SWMU	16-029(i)	Sump
SWMU	16-029(j)	Sump

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	16-029(k)	Sumps
SWMU	16-029(l)	Sumps
SWMU	16-029(m)	Soil contamination from former Sump
SWMU	16-029(n)	Soil contamination from former Sump
SWMU	16-029(o)	Soil contamination from former Sump
SWMU	16-029(p)	Soil contamination from former Sump
SWMU	16-029(q)	Former Sump
SWMU	16-029(r)	Outfall from former Building 16-25
SWMU	16-029(s)	Sumps
SWMU	16-029(t)	Sumps
SWMU	16-029(u)	Sumps
SWMU	16-029(v)	Sump
SWMU	16-029(w)	Soil contamination from former Sump
SWMU	16-029(x)	Sump
SWMU	16-029(y)	Sump
SWMU	16-029(z)	Sumps
SWMU	16-030(a)	Outfall from former Building 16-344
SWMU	16-030(c)	Outfall from former Building 16-222
AOC	16-030(d)	Outfall from former Building 16-280
AOC	16-030(g)	Outfall from Building 16-380
SWMU	16-030(h)	Outfalls from Building 16-430
SWMU	16-031(a)	Outfall from cooling tower 16-372
SWMU	16-031(b)	Outfall from former cooling tower 16-262
SWMU	16-031(c)	Outfall associated with former Building 16-515
SWMU	16-031(d)	Outfall from former cooling tower 16-28
SWMU	16-031(e)	Outfall from Building 16-560
SWMU	16-031(f)	Outfall from Building 16-21
SWMU	16-031(h)	Outfall from former Building 16-478
SWMU	16-032(a)	Sumps
SWMU	16-032(c)	Sumps, drainlines, and outfall from former Building 16-26
AOC	16-033(a)	Soil contamination from former Underground tank
AOC	16-033(b)	Soil contamination from former Underground tank
AOC	16-033(c)	Soil contamination from former Underground tank
AOC	16-033(d)	Soil contamination from former Underground tank
AOC	16-033(e)	Underground tanks
AOC	16-033(f)	Soil contamination from former Underground tank
AOC	16-033(g)	Soil contamination from former Underground tank
AOC	16-033(h)	Soil contamination from former Underground tank
AOC	16-033(i)	Soil contamination from former Underground tank
AOC	16-033(j)	Soil contamination from former Underground tank
AOC	16-033(k)	Underground storage tank
SWMU	16-034(a)	Soil contamination from former Laboratory 16-24
SWMU	16-034(b)	Soil contamination from former Building 16-490

**Table K-1**

**SWMUs and AOCs Requiring Corrective Action**

SWMU	16-034(c)	Soil contamination from former Storage Hut 16-491
SWMU	16-034(d)	Soil contamination from former Machine Shop 16-492
SWMU	16-034(e)	Soil contamination from former Storage Building 16-496
SWMU	16-034(f)	Soil contamination from former Laboratory 16-498
SWMU	16-034(h)	Soil contamination from former Plumbing and Electrical Shop, 16-137
SWMU	16-034(i)	Soil contamination from former Laboratory 16-141
SWMU	16-034(j)	Soil contamination from former Structure
SWMU	16-034(k)	Soil contamination from former Laboratory 16-140
SWMU	16-034(l)	Soil contamination from former Equipment and Control Building 16-47
SWMU	16-034(m)	Soil contamination from former Laboratory 16-86
SWMU	16-034(n)	Soil contamination from former Laboratory 16-83
SWMU	16-034(o)	Soil contamination from former Laboratory 16-49
SWMU	16-034(p)	Soil contamination from former Laboratory 16-41
SWMU	16-035	Soil contamination from former Control Bunker 16-2 (Renumbered to 16-476)
SWMU	16-036	Soil contamination from Battleship Bunkers 16-477 and -478
AOC	16-037	Aboveground Tank – Existence not verified
AOC	C-16-001	Building (former Platform)
AOC	C-16-002	Soil contamination from former Cooling Tower 16-262
AOC	C-16-005	Soil contamination from former HE Processing Building 16-53
AOC	C-16-006	Soil contamination from former Solvent Storage Building 16-148
AOC	C-16-008	Soil contamination associated with former Structure 16-136
AOC	C-16-009	Soil contamination associated with former Building 16-134
AOC	C-16-010	Soil contamination associated with former Building 16-135
AOC	C-16-011	Soil contamination from former Paint Shop TA-16-132
AOC	C-16-012	Soil contamination associated with former Building 16-138
AOC	C-16-013	Soil contamination associated with former Storage Area
AOC	C-16-014	Soil contamination associated with former Structure 16-144
AOC	C-16-015	Soil contamination associated with former Structure 16-143
AOC	C-16-016	Soil contamination associated with former Structure 16-142
AOC	C-16-017	Soil contamination associated with former Structure 16-502
AOC	C-16-018	Soil contamination associated with former Aboveground Tank
AOC	C-16-019	Soil contamination associated with former Structure 16-19
AOC	C-16-020	Soil contamination associated with former Structure 16-22
SWMU	C-16-025	Soil contamination associated with former Structure 16-8
SWMU	C-16-026	Soil contamination associated with former Structure 16-6
AOC	C-16-028	Soil contamination from Instrument Shop 16-5
AOC	C-16-030	Soil contamination associated with former Tank Housing 16-181
AOC	C-16-031	Soil contamination associated with former Diesel Unit Building 16-182
AOC	C-16-034	Soil contamination associated with Aboveground Tank
AOC	C-16-035	Soil contamination associated with Aboveground Tank

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

AOC	C-16-036	Soil contamination associated with former Septic System
AOC	C-16-041	Soil contamination associated with former Building 16-198
AOC	C-16-044	Soil contamination associated with former Manhole
AOC	C-16-046	Soil contamination associated with former Manhole
AOC	C-16-047	Soil contamination associated with former Transport area
AOC	C-16-049	Soil contamination associated with former Building 16-475
AOC	C-16-050	Soil contamination associated with former Building 16-482
AOC	C-16-051	Soil contamination associated with former Transport area
AOC	C-16-058	Soil contamination associated with former Transport area
AOC	C-16-060	Soil contamination associated with former Storage Structure 16-479
AOC	C-16-061	Soil contamination associated with Building (Former platform)
AOC	C-16-062	Soil contamination associated with former Electrical Manhole
AOC	C-16-063	Soil contamination associated with former Electrical Manhole
AOC	C-16-064	Drum storage area
AOC	C-16-065	Container storage area
AOC	C-16-067	Storage area
AOC	C-16-068	Soil contamination associated with former Building 16-522
AOC	C-16-069	Soil contamination associated with former Trailer 16-87
AOC	C-16-070	Underground tank
AOC	C-16-071	Spill/Non-intentional release area
AOC	C-16-072	Tank – Existence not verified
AOC	C-16-073	Underground Storage Tank
AOC	C-16-074	Storage Area
AOC	C-16-075	Spill location near Building 16-340
AOC	C-16-076	Magazine Area A (former TA-28)
AOC	C-16-077	Magazine Area B (former TA-29)
<b>TA-18</b>		
SWMU	18-001(a)	Lagoons
SWMU	18-001(b)	Drainlines
SWMU	18-001(c)	Sump
SWMU	18-002(a)	Firing site
SWMU	18-002(b)	Firing site
AOC	18-002(c)	Former Drop Tower
SWMU	18-003(a)	Settling Pit
SWMU	18-003(b)	Septic System
SWMU	18-003(c)	Septic system
SWMU	18-003(d)	Septic system
SWMU	18-003(e)	Septic system
SWMU	18-003(f)	Septic system
SWMU	18-003(g)	Septic system
SWMU	18-003(h)	Septic system
SWMU	18-004(a)	Waste line

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	18-004(b)	Soil contamination from former Tanks and Pit
SWMU	18-005(a)	Contaminated soil from former magazine 18-15
AOC	18-006	Storage Pipe
AOC	18-008	Former Underground tank
AOC	18-010(b)	Outfall
AOC	18-010(c)	Outfall
AOC	18-010(d)	Outfall
AOC	18-010(e)	Outfall
AOC	18-010(f)	Outfall from Building 18-32
AOC	18-011	Soil contamination from former Building 18-22
SWMU	18-012(a)	Outfall from Building 18-116
SWMU	18-012(b)	Outfall from Buildings 18-30 and -31
AOC	18-012(c)	Sump and drainlines
AOC	18-013	Waste Tank
<b>TA-19</b>		
SWMU	19-001	Septic System
SWMU	19-002	Surface Disposal Site
SWMU	19-003	Drainline and Outfall Associated with former Building 19-05
<b>TA-20</b>		
SWMU	20-001(a)	Landfill
SWMU	20-001(b)	Landfill
SWMU	20-001(c)	Firing Site
SWMU	20-002(a)	Firing Site
SWMU	20-002(b)	Landfill
SWMU	20-002(c)	Firing site
SWMU	20-002(d)	Firing site
AOC	20-003(b)	Firing site
AOC	20-003(c)	Firing site
AOC	20-004	Former Septic system
SWMU	20-005	Septic tank
<b>TA-21</b>		
AOC	21-001	Container Storage Area
SWMU	21-002(a)	Container Storage Area
AOC	21-002(b)	Container Storage
SWMU	21-003	Container Storage Area
AOC	21-004(a)	Aboveground tank
SWMU	21-004(b)	Aboveground tank
SWMU	21-004(c)	Aboveground tank
SWMU	21-006(a)	Underground Seepage Pit
SWMU	21-006(b)	Underground Seepage pit
SWMU	21-006(c)	Underground Seepage pit
SWMU	21-006(d)	Underground Seepage pit
SWMU	21-006(e)	Underground Seepage pit

**Table K-1**

**SWMUs and AOCs Requiring Corrective Action**

AOC	21-006(f)	Underground Seepage pit
SWMU	21-007	Soil contamination from former incinerators
AOC	21-009	Soil contamination associated with former Waste treatment laboratory
SWMU	21-010(a)	Soil contamination associated with former Waste treatment facility 21-35
SWMU	21-010(b)	Soil contamination from former manhole
SWMU	21-010(c)	Soil contamination from former Underground Tank
SWMU	21-010(d)	Soil contamination from former Underground Tank
SWMU	21-010(e)	Soil contamination from former Septic Tank
SWMU	21-010(f)	Soil contamination from former Grit Chamber
SWMU	21-010(g)	Soil contamination from former Aboveground Tank
SWMU	21-010(h)	Soil contamination from former Manhole
SWMU	21-011(a)	Waste Treatment Facility 21-257
SWMU	21-011(b)	Sump
SWMU	21-011(c)	Tank and Sump
SWMU	21-011(d)	Holding Tank
SWMU	21-011(e)	Holding Tank
SWMU	21-011(f)	Holding Tank
SWMU	21-011(g)	Holding Tank
AOC	21-011(h)	Soil contamination from former storage tank
SWMU	21-011(i)	Storage Tank
SWMU	21-011(j)	Storage Tank
SWMU	21-011(k)	Outfall from Building 21-257
SWMU	21-012(b)	Dry well
SWMU	21-013(a)	Surface Disposal Site
SWMU	21-013(b)	Surface Disposal Site
SWMU	21-013(c)	Surface disposal site
SWMU	21-013(d)	Surface disposal site
SWMU	21-013(e)	Surface disposal site
AOC	21-013(f)	Surface disposal site
AOC	21-013(g)	Surface disposal site
SWMU	21-014	Material disposal area (MDA) A
SWMU	21-015	Material disposal area (MDA) B
SWMU	21-016(a)	Absorption Beds (MDA T)
SWMU	21-016(b)	Soil contamination from a former Storage Pit (MDA T)
SWMU	21-016(c)	Shafts (MDA T)
SWMU	21-017(a)	Absorption Bed (MDA U)
SWMU	21-017(b)	Absorption Bed (MDA U)
SWMU	21-017(c)	Soil contamination from former distribution box (MDA U)
SWMU	21-018(a)	Absorption Beds (MDA V)
SWMU	21-018(b)	Soil contamination from former Laundry Facility (MDA V)
SWMU	21-021	Soil contamination from Stack Emissions

**Table K-1**

**SWMUs and AOCs Requiring Corrective Action**

SWMU	21-022(a)	Sump and waste lines
SWMU	21-022(b)	Soil contamination from former Sump and Waste line
SWMU	21-022(c)	Soil contamination from former Sump and Waste line
SWMU	21-022(d)	Soil contamination from former Sump and Waste line
SWMU	21-022(e)	Soil contamination from former Sump and Waste line
SWMU	21-022(f)	Sump and Waste line
SWMU	21-022(g)	Soil contamination from former Sump and Waste line
SWMU	21-022(h)	Sump and Waste line
SWMU	21-022(i)	Sump and Waste line
SWMU	21-022(j)	Former Sump and Waste line
SWMU	21-023(a)	Soil contamination from former Septic System
SWMU	21-023(b)	Soil contamination from former Septic System
SWMU	21-023(c)	Septic System
SWMU	21-023(d)	Soil contamination from former Septic System
SWMU	21-024(a)	Septic system
SWMU	21-024(b)	Septic system
SWMU	21-024(c)	Septic system
SWMU	21-024(d)	Septic system
SWMU	21-024(e)	Septic system
SWMU	21-024(f)	Former Septic system
SWMU	21-024(g)	Septic system
SWMU	21-024(h)	Septic system
SWMU	21-024(i)	Former Septic system
SWMU	21-024(j)	Septic system
SWMU	21-024(k)	Septic system
SWMU	21-024(l)	Outfall from Building 21-21
SWMU	21-024(n)	Drainline
SWMU	21-024(o)	Drainline
SWMU	21-026(a)	Sewage treatment plant
SWMU	21-026(b)	Sand Filter/Sludge drying beds
AOC	21-026(c)	Dosing Siphon Chamber
AOC	21-026(d)	Outfall from Building 21-227
SWMU	21-027(a)	Drainage System
SWMU	21-027(c)	Outfall from former Building 21-6
SWMU	21-027(d)	Soil contamination from former drainline
AOC	21-028(a)	Container storage Area
AOC	21-028(c)	Container Storage Area
AOC	21-028(d)	Container Storage Area
SWMU	21-029	Former DP Tank Farm
AOC	C-21-001	Spill/Non-intentional release area
AOC	C-21-005	Spill/Non-intentional release area
AOC	C-21-006	Spill/Non-intentional release area
AOC	C-21-007	Spill/Non-intentional release area

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

AOC	C-21-009	Spill/Non-intentional release area
AOC	C-21-012	Spill/Non-intentional release area
AOC	C-21-027	Former structure 21-143
AOC	C-21-033	Spill/Non-intentional release area
AOC	C-21-034	Soil contamination associated with former Tank
AOC	C-21-035	Soil contamination associated with former Aboveground tank
AOC	C-21-036	Soil contamination associated with former Aboveground tank
AOC	C-21-037	Soil contamination associated with former Aboveground tank
<b>TA-22</b>		
SWMU	22-010(a)	Septic system
SWMU	22-010(b)	Septic system
SWMU	22-011	Disposal pit
SWMU	22-012	Decontamination pad
SWMU	22-014(a)	Sump System
SWMU	22-014(b)	Sump System
SWMU	22-015(a)	Drainlines and Dry Wells
SWMU	22-015(b)	Sump and outfall
SWMU	22-015(c)	Outfall from Building 22-52
SWMU	22-015(d)	Drainline and outfall associated with Building 22-1
SWMU	22-015(e)	Sump
SWMU	22-016	Septic system
<b>TA-26</b>		
SWMU	26-001	Surface disposal site
SWMU	26-002(a)	Soil contamination from former acid sump system
SWMU	26-002(b)	Drainline associated with Vault 26-1
SWMU	26-003	Septic tank
<b>TA-27</b>		
SWMU	27-002	Firing sites
SWMU	27-003	Bazooka impact area (Same as AOC 36-009)
<b>TA-31</b>		
SWMU	31-001	Soil Contamination from former Septic Tank
<b>TA-32</b>		
SWMU	32-001	Soil contamination from former Incinerator
SWMU	32-002(a)	Soil contamination from former septic tank
SWMU	32-002(b1)	Soil contamination from former septic tank
SWMU	32-002(b2)	Soil contamination from former septic tank
SWMU	32-003	Former Transformer Station
SWMU	32-004	Drainline and outfall from former Building 32-3
<b>TA-33</b>		
SWMU	33-001(a)	Disposal Pit (MDA E)
SWMU	33-001(b)	Disposal Pit (MDA E)
SWMU	33-001(c)	Disposal Pit (MDA E)

**Table K-1**

**SWMUs and AOCs Requiring Corrective Action**

SWMU	33-001(d)	Disposal Pit (MDA E)
SWMU	33-001(e)	Soil contamination from underground chamber and shaft (MDA E)
SWMU	33-002(a)	Septic System (MDA K)
SWMU	33-002(b)	Sump (MDA K)
SWMU	33-002(c)	Sump (MDA K)
SWMU	33-002(d)	Drainline and outfall from former Building 33-86 (MDA K)
SWMU	33-002(e)	Drainline and outfall from former Building 33-86 (MDA K)
SWMU	33-003(a)	Soil contamination from former underground chamber and shaft (MDA D)
SWMU	33-003(b)	Soil contamination from former underground chamber and shaft (MDA D)
SWMU	33-004(a)	Septic System
SWMU	33-004(b)	Septic system
SWMU	33-004(c)	Septic system
SWMU	33-004(d)	Septic system
SWMU	33-004(g)	Drainline and outfall associated with Building 33-16
SWMU	33-004(h)	Drainline and outfall associated with Building 33-20
SWMU	33-004(i)	Drainline and outfall associated with Building 33-39
SWMU	33-004(j)	Outfall from Building 33-26
SWMU	33-004(k)	Drainline and Outfall Associated with Structure 33-87
SWMU	33-004(m)	Septic Tank and Leach Field
SWMU	33-005(a)	Soil contamination from former Septic System
SWMU	33-005(b)	Soil Contamination from former Drainline
SWMU	33-005(c)	Soil Contamination from former Waste Line and Leach Field
SWMU	33-006(a)	Firing site
SWMU	33-006(b)	Firing site
SWMU	33-007(a)	Firing site
SWMU	33-007(b)	Firing Sites
SWMU	33-007(c)	Firing Sites
SWMU	33-008(a)	Landfill
SWMU	33-008(b)	Landfill
SWMU	33-008(c)	Landfill
SWMU	33-009	Surface disposal site
SWMU	33-010(a)	Surface disposal site
SWMU	33-010(b)	Surface disposal site
SWMU	33-010(c)	Surface disposal site
SWMU	33-010(d)	Surface disposal site
SWMU	33-010(f)	Surface Disposal Site (MDA K)
SWMU	33-010(g)	Surface disposal site
SWMU	33-010(h)	Surface disposal site
SWMU	33-011(a)	Soil contamination from former Storage Area
AOC	33-011(b)	Storage Area
SWMU	33-011(c)	Storage Area

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	33-011(d)	Storage Area
SWMU	33-011(e)	Storage Area
SWMU	33-012(a)	Drum storage area
SWMU	33-013	Drum storage area
SWMU	33-014	Burn Site
SWMU	33-015	Incinerator
SWMU	33-016	Sump
SWMU	33-017	Operations release
AOC	C-33-001	Former Transformer
AOC	C-33-002	Former Transformer
AOC	C-33-003	Soil contamination
<b>TA-35</b>		
SWMU	35-002	Material disposal area (MDA X)
SWMU	35-003(a)	Former underground storage tank
SWMU	35-003(b)	Former underground storage tank
SWMU	35-003(c)	Former underground storage tank
SWMU	35-003(d)	Soil contamination from former Building 35-10
SWMU	35-003(e)	Soil contamination from former storage tank
SWMU	35-003(f)	Soil contamination from former flocculator tank
SWMU	35-003(g)	Soil contamination from former Regenerate tank
SWMU	35-003(h)	Soil contamination from former Retention tank
SWMU	35-003(j)	Soil contamination from former storage tank
SWMU	35-003(k)	Soil contamination from former storage tank
SWMU	35-003(l)	Soil Contamination from former Pump Pit
SWMU	35-003(m)	Soil contamination from former Sludge tank
SWMU	35-003(n)	Former phase separator pit
SWMU	35-003(o)	Soil contamination from former manhole
SWMU	35-003(p)	Former air-filter building
SWMU	35-003(q)	Soil contamination from former pipe trench
AOC	35-003(r)	Outfall associated with former Building 35-10
AOC	35-003(misc)	Soil contamination from former Industrial Waste lines
SWMU	35-004(a)	Container Storage Area
SWMU	35-004(b)	Container Storage Area
SWMU	35-004(g)	Container Storage Area
SWMU	35-004(h)	Container storage area
AOC	35-004(m)	Container storage area
SWMU	35-008	Surface disposal site
SWMU	35-009(a)	Septic system
SWMU	35-009(b)	Septic system
SWMU	35-009(c)	Septic system
SWMU	35-009(d)	Septic system
SWMU	35-009(e)	Drainline
SWMU	35-010(a)	Wastewater Treatment Lagoons

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	35-010(b)	Wastewater Treatment Lagoons
SWMU	35-010(c)	Wastewater Treatment Lagoons
SWMU	35-010(d)	Filter Beds
AOC	35-010(e)	Discharge headwall and sand filter associated with Structure 35-215 (includes 35-010(misc))
SWMU	35-013(a)	Sumps
SWMU	35-013(b)	Sumps
SWMU	35-013(c)	Sumps
SWMU	35-014(a)	Operational release from former Building 35-7
SWMU	35-014(b)	Soil contamination from leaking drum
AOC	35-014(d)	Soil contamination from Valve system for former storage tanks
SWMU	35-014(e)	Spill/Non-intentional release area
AOC	35-014(e2)	Soil contamination associated with overflows from waste oil impoundment
AOC	35-014(f)	Soil contamination from oil-handling system
SWMU	35-014(g)	Spill/Non-intentional release area
AOC	35-014(g2)	Soil contamination from former leaking containers
AOC	35-014(g3)	Spill/Non-intentional release area
SWMU	35-015(a)	Soil contamination from former tank farm and waste-oil treatment facility
SWMU	35-015(b)	Soil contamination from former waste oil treatment facility
SWMU	35-016(a)	Drain and outfall from Building 35-34
AOC	35-016(b)	Drain and Outfall from Building 35-87
SWMU	35-016(c)	Drain and Outfall from Building 35-67
SWMU	35-016(d)	Drain and Outfall from Building 35-46
AOC	35-016(e)	Drain and Outfall from Building 35-85
AOC	35-016(f)	Storm drain and Outfall
AOC	35-016(g)	Drain and Outfall from Building 35-213
AOC	35-016(h)	Storm drains and Outfall associated with Building 35-213
SWMU	35-016(i)	Storm drains and Outfall
AOC	35-016(j)	Storm drain and Outfall associated with Building 35-125
SWMU	35-016(k)	Drainline and outfall from Building 35-29
AOC	35-016(l)	Storm drains
SWMU	35-016(m)	Drain lines and Outfall associated with Cooling Tower 35-33
AOC	35-016(n)	Storm drain and Outfall associated with Building 35-86
SWMU	35-016(o)	Storm Drains and outfalls
SWMU	35-016(p)	Outfall from Building 35-27
SWMU	35-016(q)	Storm waster collection basins
AOC	35-018(a)	Former Transformer
AOC	C-35-007	Soil contamination associated with WWTP/Sand Filters
<b>TA-36</b>		
SWMU	36-001	Material disposal area (MDA) AA
SWMU	36-002	Former Sump
SWMU	36-003(a)	Septic system

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	36-003(b)	Septic system, I-J Site
AOC	36-004(a)	Firing site
AOC	36-004(b)	Firing site
AOC	36-004(c)	Firing site
SWMU	36-004(d)	Firing site
AOC	36-004(e)	Firing site
SWMU	36-005	Surface Storage Area
SWMU	36-006	Surface Disposal Site
SWMU	36-008	New SWMU-Surface disposal Area located bear Building 36-1
AOC	C-36-001	Containment vessel
SWMU	C-36-003	Outfall from Building 36-1
AOC	C-36-006(e)	I-J Firing Site, projectile test area
<b>TA-39</b>		
SWMU	39-001(a)	Landfill
SWMU	39-001(b)	Disposal pits (MDA Y)
SWMU	39-002(a)	Storage area
AOC	39-002(b)	Storage area
AOC	39-002(c)	Storage area
AOC	39-002(d)	Storage area
AOC	39-002(e)	Storage area
AOC	39-002(f)	Storage area
SWMU	39-004(a)	Firing site
SWMU	39-004(b)	Firing site
SWMU	39-004(c)	Firing site TA-39-6
SWMU	39-004(d)	Firing site TA-39-57
SWMU	39-004(e)	Firing site
SWMU	39-005	Potential soil contamination associated with former Seepage pit
SWMU	39-006(a)	Septic system
SWMU	39-007(a)	Storage area
AOC	39-007(d)	Storage area
SWMU	39-008	Disposal Trenches
SWMU	39-010	Excavated soil pile
<b>TA-40</b>		
SWMU	40-001(b)	Septic system
SWMU	40-001(c)	Septic system
AOC	40-003(b)	Burning area
SWMU	40-004	Operational release
SWMU	40-005	Sump
SWMU	40-006(a)	Firing site
SWMU	40-006(b)	Firing site
SWMU	40-006(c)	Firing site
AOC	40-007(a)	Storage area
AOC	40-007(b)	Storage area

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

AOC	40-007(c)	Storage area
AOC	40-007(d)	Storage area
AOC	40-007(e)	Storage area
SWMU	40-009	Landfill
SWMU	40-010	Surface disposal site
<b>TA-41</b>		
SWMU	41-001	Septic Tank
SWMU	41-002(a)	Imhoff Tank
SWMU	41-002(b)	Chlorine Contact Tank
SWMU	41-002(c)	Sludge Drying Bed
AOC	41-003	Sump
AOC	C-41-004	Storm drains
<b>TA-42</b>		
SWMU	42-001(a)	Soil contamination from former Incinerator Building 42-1
SWMU	42-001(b)	Soil contamination from former Ash storage tank
SWMU	42-001(c)	Soil contamination from former Ash storage tank
AOC	42-002(a)	Soil contamination from former Vacublaster and storage area
SWMU	42-002(b)	Soil contamination from former Decontamination area
SWMU	42-003	Soil contamination from former Septic System
<b>TA-43</b>		
SWMU	43-001(a)	Waste lines
AOC	43-001(a2)	Waste lines
SWMU	43-001(b)	Outfall
AOC	43-001(b2)	Outfall from Building 43-1
SWMU	43-002	Former Incinerator
AOC	C-43-001	Storm Drain associated with Building 43-1 Loading Dock
<b>TA-45</b>		
SWMU	45-001	Soil contamination from former RLW Treatment Plant
SWMU	45-002	Soil contamination from former Decontamination Facility
SWMU	45-003	Soil contamination from former Waste lines
SWMU	45-004	Sanitary sewer outfall
AOC	C-45-001	Soil contamination from spill in parking lot south of former RLW Treatment Plant
<b>TA-46</b>		
SWMU	46-002	Surface Impoundment
SWMU	46-003(a)	Septic system
SWMU	46-003(b)	Septic system
SWMU	46-003(c)	Septic system
SWMU	46-003(d)	Septic system
SWMU	46-003(e)	Septic system
SWMU	46-003(f)	Septic system
SWMU	46-003(g)	Septic system
SWMU	46-003(h)	Outfall from Building 46-77

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	46-004(a)	Waste line
SWMU	46-004(a2)	Outfall associated with Building 46-31
SWMU	46-004(b)	Soil contamination associated with former tank
SWMU	46-004(b2)	Outfall associated with Building 46-1
SWMU	46-004(c)	Dry Well
SWMU	46-004(c2)	Outfall from Building 46-1
SWMU	46-004(d)	Dry well
SWMU	46-004(d2)	Soil Contamination from Stack Emissions
SWMU	46-004(e)	Dry well
AOC	46-004(e2)	Outfall from Building 46-42
SWMU	46-004(f)	Drain associated with Building 46-24
AOC	46-004(f2)	Outfall from Building 46-31
SWMU	46-004(g)	Drains and Exhaust System
SWMU	46-004(h)	Drains and Exhaust System
SWMU	46-004(m)	Outfall from Building 46-30
SWMU	46-004(p)	Dry Well
SWMU	46-004(q)	Outfall
SWMU	46-004(r)	Outfall from Building 46-24
SWMU	46-004(s)	Outfall associated with Building 46-1
SWMU	46-004(t)	Outfall from Building 46-88
SWMU	46-004(u)	Outfall from Building 46-87
SWMU	46-004(v)	Outfall from Building 46-87
SWMU	46-004(w)	Outfall from Building 46-59
SWMU	46-004(x)	Outfall from Building 46-31
SWMU	46-004(y)	Outfall from Building 46-31
SWMU	46-004(z)	Outfall from Building 46-31
SWMU	46-005	Surface impoundment
SWMU	46-006(a)	Operational release
SWMU	46-006(b)	Former storage shed
SWMU	46-006(c)	Operational release
SWMU	46-006(d)	Operational release
SWMU	46-006(f)	Storage area
SWMU	46-006(g)	Storage area
SWMU	46-007	Operational release
SWMU	46-008(a)	Storage area
SWMU	46-008(b)	Storage area
SWMU	46-008(d)	Storage area
SWMU	46-008(e)	Storage area
SWMU	46-008(f)	Storage area
SWMU	46-008(g)	Storage area
SWMU	46-009(a)	Landfill
SWMU	46-009(b)	Surface disposal site
SWMU	46-010(d)	Storage Area

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

AOC	C-46-001	Spill/Non-intentional release area
AOC	C-46-002	Soil contamination from stack emissions – Non-intentional release
AOC	C-46-003	Soil contamination from stack emissions – Non-intentional release
<b>TA-48</b>		
AOC	48-001	Air exhaust system
SWMU	48-002(a)	Container storage area
SWMU	48-002(b)	Container storage area
AOC	48-002(e)	Container storage
SWMU	48-003	Soil contamination associated with former septic system
SWMU	48-004(a)	Sumps
SWMU	48-004(b)	Tanks
SWMU	48-004(c)	Tanks
SWMU	48-005	Waste lines
SWMU	48-007(a)	Outfall associated with Building 48-1
SWMU	48-007(b)	Outfall from Building 48-1
SWMU	48-007(c)	Outfall from Building 48-1
SWMU	48-007(d)	Outfall associated with Building 48-1
SWMU	48-007(f)	Outfall from Building 48-46
SWMU	48-010	Surface Impoundment
AOC	48-011	Disposal shaft
SWMU	48-012	Soil Contamination
<b>TA-49</b>		
SWMU	49-001(a)	Shafts at Area 1 (MDA AB)
SWMU	49-001(b)	Shafts at Area 2 (MDA AB)
SWMU	49-001(c)	Shafts at Area 2A (MDA AB)
SWMU	49-001(d)	Shafts at Area 2B (MDA AB)
SWMU	49-001(e)	Shafts at Area 3 (MDA AB)
SWMU	49-001(f)	Shafts at Area 4 (MDA AB)
SWMU	49-001(g)	Soil contamination (MDA AB)
AOC	49-002	Operational facility (Area 10 underground chamber)
SWMU	49-003	Leach field (Area 11 rad/chem and small shot area)
SWMU	49-004	Burn site and landfill (Area 6)
SWMU	49-005(a)	Landfill (east of Area 10)
AOC	49-005(b)	Landfill - Area 5
SWMU	49-006	Sump (Area 5)
AOC	49-008(a)	Soil contamination (Area 5)
AOC	49-008(b)	Soil contamination (Area 6)
AOC	49-008(c)	Soil contamination (Area 11)
AOC	49-008(d)	Firing sites (Bottle House area) soil contamination and underground chamber
<b>TA-50</b>		
SWMU	50-001(a)	Waste treatment facility

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

AOC	50-001(b)	Waste lines
SWMU	50-002(a)	Underground tanks
SWMU	50-002(b)	Vaulted underground tank
SWMU	50-002(c)	Vaulted underground tank
AOC	50-002(d)	Aboveground storage tank
SWMU	50-004(a)	Soil contamination from former waste lines
SWMU	50-004(b)	Soil contamination from former vault and Tanks
SWMU	50-004(c)	Soil contamination from former Waste lines and Manholes
SWMU	50-006(a)	Operational release
SWMU	50-006(c)	Operational release
SWMU	50-006(d)	Outfall associated with Building 50-1
AOC	50-007	Former Incinerator complex
AOC	50-008	Reduction site
SWMU	50-009	Material disposal area (MDA C)
AOC	50-010	Decontamination facility
SWMU	50-011(a)	Soil contamination associated with former Septic system (includes SWMU 50-011(misc))
AOC	50-011(b)	Lift stations
AOC	C-50-001	Former Transformer
<b>TA-51</b>		
AOC	51-001	Former Septic system
<b>TA-52</b>		
SWMU	52-001(d)	Former facility equipment
SWMU	52-002(a)	Septic system
AOC	52-003(a)	Former Wastewater Treatment Plant
<b>TA-53</b>		
SWMU	53-001(a)	Storage area
SWMU	53-001(b)	Storage area
SWMU	53-002(a)	Former surface impoundment
SWMU	53-002(b)	Former surface impoundment
SWMU	53-005	Soil contamination from former disposal pit
SWMU	53-006(b)	Underground tank
SWMU	53-006(c)	Underground tank
SWMU	53-006(d)	Underground tank
SWMU	53-006(e)	Underground tank
SWMU	53-006(f)	Underground tank
SWMU	53-007(a)	Aboveground neutralizer tank
AOC	53-008	Storage area
AOC	53-009	Aboveground tanks
AOC	53-010	Container storage
AOC	53-012(e)	Outfall from Building 53-2
SWMU	53-013	Soil contamination – Lead storage site I

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

SWMU	53-014	Soil contamination – Lead storage site II
SWMU	53-015	Radioactive Liquid Waste Treatment System
<b>TA-54</b>		
SWMU	54-004	MDA H
SWMU	54-005	MDA J
SWMU	54-006	MDA L
SWMU	54-007(a)	Former Septic system (includes SWMU 54-007 (misc))
AOC	54-007(d)	Former Septic system (includes SWMU 54-007(misc))
AOC	54-012(a)	Former drum compactor
SWMU	54-012(b)	Drum crusher
SWMU	54-013(b)	Vehicle Monitoring/Decontamination area (MDA G)
AOC	54-014(a)	Storage Shafts at MDA L
SWMU	54-014(b)	Pit 9 (MDA G)
SWMU	54-014(c)	Shafts 200-233 (MDA G)
SWMU	54-014(d)	Storage trenches A, B, C, and D (MDA G)
AOC	54-015(b)	Storage Area
SWMU	54-015(k)	Layer of TRU waste
AOC	54-016(b)	Sump
SWMU	54-017	Disposal Pits (MDA G)
SWMU	54-018	Disposal Pits (MDA G)
SWMU	54-019	Disposal Pits (MDA G)
SWMU	54-020	Disposal Shafts MDA G
SWMU	54-.023	Disposal Pit 38 (MDA G)
SWMU	54-024	Disposal Pit 39 (MDA G)
<b>TA-55</b>		
SWMU	55-008	Sumps and tanks
<b>TA-57</b>		
AOC	57-001(b)	Former Settling ponds
AOC	57-001(c)	Former Settling ponds
AOC	57-002	Sludge pit
AOC	57-004(a)	Former Settling ponds
AOC	57-004(b)	Former Settling ponds
AOC	57-006	Former Drum and contents
AOC	57-007	Leach field
<b>TA-59</b>		
AOC	59-004	Outfall from Building 59-1
AOC	C-59-001	Transformer
<b>TA-60</b>		
SWMU	60-002	Storage area
AOC	60-004(b)	Storage area
AOC	60-004(c)	Storage area
AOC	60-004(d)	Storage area
AOC	60-004(e)	Storage area

**Table K-1**  
**SWMUs and AOCs Requiring Corrective Action**

AOC	60-004(f)	Storage area
SWMU	60-005(a)	Surface impoundment
SWMU	60-006(a)	Septic Ssystem
SWMU	60-007(a)	Operational Release
SWMU	60-007(b)	Operational Release
<b>TA-61</b>		
SWMU	61-002	Transformer storage area
SWMU	61-005	Landfill (Los Alamos municipal)
SWMU	61-006	Waste oil tank (renumbered from 00-002)
SWMU	61-007	Soil contamination associated with transformer staging area
AOC	C-61-002	Subsurface contamination
<b>TA-63</b>		
SWMU	63-001(a)	Septic system
SWMU	63-001(b)	Septic system
<b>TA-69</b>		
SWMU	69-001	Two-Mile Incinerator Facility
<b>TA-72</b>		
AOC	72-001	Firing range
<b>TA-73</b>		
SWMU	73-001(a)	Landfill
SWMU	73-001(b)	Soil contamination from former waste oil pit
SWMU	73-001(c)	Bunkers
SWMU	73-001(d)	Landfill
SWMU	73-002	Incinerator Surface Disposal
AOC	73-003	Soil contamination from former Steam cleaning plant
SWMU	73-004(a)	Former septic tank
SWMU	73-004(b)	Former septic tank
SWMU	73-004(c)	Septic System
SWMU	73-004(d)	Soil contamination form former septic tank
SWMU	73-006	Airport Building Outfalls



# **Attachment 2**

## Certification Statement



**CERTIFICATION**

**NEWPORT NEWS NUCLEAR BWXT – LOS ALAMOS, LLC**

**CERTIFICATION STATEMENT OF AUTHORIZATION**

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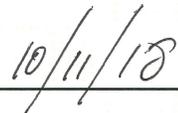
In accordance with the New Mexico Administrative Code Title 20, Chapter 4, Part 1 (incorporating the Code of Federal Regulations, Title 40 CFR § 270.11):

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”



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Frazer Lockhart, Program Manager  
Regulatory and Stakeholder Interface  
Newport News Nuclear BWXT – Los Alamos, LLC



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Date



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Arturo Q. Duran, Permitting and Compliance Manager  
Office of Quality and Regulatory Compliance  
Environmental Management  
Los Alamos Field Office



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Date

