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# MSGP Stormwater Pollution Prevention Plan

# TA-16 Stockpile Area

Triad National Security, LLC
Los Alamos National Laboratory

## January 2026

Revision 7

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**TA-16 Stockpile Area**
**STORMWATER POLLUTION PREVENTION PLAN**

**PREFACE**

This Stormwater Pollution Prevention Plan (SWPPP) was developed in accordance with the provisions of the Clean Water Act (33 U.S.C. §§1251 et seq., as amended), and the *United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP)* (U.S. EPA, January 2021) issued by EPA. The SWPPP uses the industry specific permit requirements for Sector P: Land Transportation and Warehousing as a guide. The applicable stormwater discharge permit is EPA General Permit Tracking Number NMR050013 MSGP 2021 [Triad National Security, LLC (Triad)]. Click here to view contents of the 2021 Multi-Sector General Permit

This SWPPP applies to discharges of stormwater from the operational areas of the TA-16 Stockpile Area within Weapons Facility Operations (WFO) Facility Operations Directorate (FOD) at Los Alamos National Laboratory. Los Alamos National Laboratory (also referred to as LANL or the "Laboratory") is owned by the Department of Energy (DOE) and is operated by Triad. Throughout this document, the term "facilities" refers to the TA-16 Stockpile Area. The current MSGP expires at midnight on February 28, 2026.

## 1.0 FACILITY DESCRIPTION

### 1.1 Facility Information

| | | |
|---|---|---|
| Name of Facility: TA-16 Stockpile Area | | |
| Street: PO Box 1663 | | |
| City: Los Alamos | State: NM | ZIP Code: 87545 |
| County: Los Alamos | | |
| NPDES ID (i.e., permit tracking number): NMR050013 MSGP 2021 | | |
| Primary Industrial Activity Sector and Subsector (2021 MSGP, Appendix D and Part 8): Sector P, Subsector P1 | | |
| Estimated area of industrial activity at site exposed to stormwater: 1.1 acres | | |
| **Discharge Information** | | |
| Name(s) of surface water(s)/segment that receives stormwater from your facility: Cañon de Valle (within LANL) below LANL Gage E256 | | |

| |
|---|
| Does this facility discharge industrial stormwater directly into any segment of an "impaired water" (see definition in 2021 MSGP, Appendix A)? ☒Yes No |
| Pollutants causing the impairment: Adjusted Gross Alpha |
| Pollutants causing the impairment (see above) that may be present in industrial stormwater discharges from this Facility: Adjusted Gross Alpha |
| Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2021 MSGP Table 1-1)? ☐Yes ☒No<br>If yes, which guidelines apply? Not applicable. |

## 1.2 Stormwater Pollution Prevention Team (PPT)

The TA-16 Stockpile Area is part of the Weapons Facility Operation (WFO) Facility Operations Division (FOD) at Los Alamos National Laboratory with day-to-day management provided by Logistics Division-Heavy Equipment Roads & Grounds. Logistics has established a PPT whose members are responsible for assisting the facility manager in developing and revising the facility's SWPPP as well as maintaining control measures and taking corrective actions when required. All PPT members have access to either a hard copy or an electronic version of this SWPPP.

Specific duties of individual team members within the PPT are listed in the table below.

| Staff Names/Positions | Individual Responsibilities |
|---|---|
| **Deployed Environmental Professionals (Primary and Backup):**<br>**Kristan Long**, Deployed Environmental Professional, (EPC-CP)<br>**Paula Jaramillo**, Deployed Environmental Professional, (EPC-CP)<br>**Mona Michaelis**, Deployed Environmental Professional, (EPC-CP) | Responsible for the support and oversight of all environmental programs and issues for the TA-16 Stockpile Area. The DEP is responsible for training, recordkeeping, and SWPPP revision. The DEP ensures that all PPT, operations site workers (as appropriate), and applicable supervisors receive annual MSGP and SWPPP training. The DEP ensures documentation of inspections and other required MSGP records relative to the SWPPP are managed in accordance with the permit and established document control procedures and that the SWPPP is kept current. The DEP provides technical and regulatory support and regularly communicates with facility and operations personnel and the PPT regarding implementation of the MSGP and this SWPPP. Lastly, the DEP conducts routine facility inspections and if necessary, visual assessments, in accordance with the Permit. Identified conditions requiring corrective actions from routine facility inspections are entered into the Environmental Protection and Compliance-Compliance Programs (EPC-CP) Corrective Action Report (CAR) database. The DEP is responsible for tracking and updating the status of corrective actions that cannot be implemented immediately. The DEP is also responsible for immediate and timely communication to appropriate facility and operations management personnel to ensure that they are aware of non-compliant issues within the MSGP facility boundary and that they understand immediate action is required to correct the non-compliance. |

| | |
|---|---|
| **Facility Operations Director (FOD) and Manager/Representative:**<br><br>**Derek Clark,** FOD, (WFO-DO)<br><br>**Natalie Montoya,** Operations Manager, (WFO-HE) | Responsible for managing the operation and maintenance of all aspects of the TA-16 Stockpile Area listed within this Plan. The Operations Manager shall provide review and ensure coordination with core personnel and the PPT, as appropriate, when tenants within the WFO FOD propose a new process or a new site or operation that may be subject to the MSGP. The FOD Manager/Representative is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this SWPPP. |
| **EPC-CP Core:**<br><br>**Jacob Knight**, MSGP Program Lead, (EPC-CP)<br><br>**Kiri De La Torre,** MSGP Back-up | The MSGP Program Lead is responsible for managing and administering the MSGP Program for all industrial facilities operated by Triad within Los Alamos National Laboratory. The MSGP Program Lead advises and provides guidance to facility and operations personnel on NPDES MSGP regulations/requirements. The MSGP Program Lead also acts as the institutional point of contact for all interactions with the regulatory authority (EPA) and supervises personnel implementing stormwater monitoring requirements for the facility. |
| **Facility Staff:**<br><br>**Jose Munoz Jr.**, Logistics Superintendent Field Work Execution (LOG-SUP) | Responsible for day-to-day operations at the facility. Assisting DEPs and EPC with inspections; spill reporting; implementing, installing and maintaining stormwater controls (also known as Best management Practices) (BMPs); and providing documentation as requested by other team members. The Superintendent is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan. The Superintendent also assists the DEP/EPC with SWPPP training and/or briefings, as requested. |

## 1.3 Site Description

Activities associated with the TA-16 Stockpile Area fall under Industrial Sector P, Land Transportation and Warehousing, of the 2021 MSGP.

The TA-16 Stockpile Area includes two industrial activity areas: 1) the material storage area where construction materials (sand, gravel, rock, base course, soil, and clean fill) are staged, and 2) the pothole washout area where two containment basins are located to manage pothole washout water and associated sediment. The 1.1-acre TA-16 Stockpile Area is 0.9 miles east of TA-16-0969 WFO-Division Office, on the east side of K-Site Road. Activities include the following:

- Storage of trucks and heavy equipment used to transport/haul material.
- Staging of soil or clean fill prior to reuse.
- Potholing washout and culvert cleanout area.
- Storage of sand, gravel, crushed/angular rock, base course, asphalt millings, and other landscaping materials related to grounds keeping, road maintenance and construction.

The area surrounding the TA-16 Stockpile Area (formerly, TA-16-0280) is primarily undeveloped except for the paved K-Site Road located west of the site. Areas within the TA-16 Stockpile Area are stabilized with base course, pavement, and native vegetation. The boundary of industrial activity is approximately 1.1 acres with 2 percent impervious cover. Earthen berms serve as perimeter controls to prevent offsite sediment migration from the material storage area. Bermed catchment basins serve as containment controls for the potholing staging area. Monitored outfall 078 is located on the northwest corner of the site on the spillway for the earthen berm perimeter control. There are no substantially identical outfalls for this facility.

## 1.4 General Location Map

A general location map for the facility can be found in Figure A. Figure B-1 contains the site map. Figure B-2 identifies nearby receiving waters associated with stormwater discharges from the facility. 100% percent of the site flows to Canon de Valle. The canyon at this location is an ephemeral stream and eventually flows to the Rio Grande approximately nine and a half miles southeast of the site.

## 1.5 Site Map

The site map provided as Figure B-1 illustrates the facility's activities including the facility boundary, structures, impervious surfaces, industrial activity areas, spills, operational areas, and drainage patterns, stormwater controls, monitoring locations, outfalls, and direction of the receiving stream.

As required by the 2021 MSGP, the following information specific to the facility is either shown on the site map or provided elsewhere in this SWPPP.

- **Site boundary and acreage.** The site covers approximately 1.1 acres.
- **Significant structures and impervious surfaces.** The site is 2 percent impervious (pavement).
- **Direction of stormwater flow and site drainage.** Direction of flow is indicated with arrows. Areas have been regraded to ensure stormwater flows are directed from the stockpile area toward monitored outfall 078 and the perimeter berm located along the northwest perimeter of the site. The containment basins in the pothole washout area promotes infiltration and prevent discharge of sediments to the surrounding area. The earthen berm located southeast of the stockpile area acts to manage run-on from the slope to the south and manage sediments along the southern boundary of the stockpile area, next to former outfall and associated drain line [AOC 16-030(d)]. Run-on from K-Site Road is managed by a vegetated swale that directs flows to the north, along the western boundary of the site.
- **Locations of stormwater control measures.** The earthen berm located along the northwestern perimeter of the stockpile area manages runoff and acts to prevent offsite sediment migration. The earthen berm located southeast of the stockpile area acts to manage run-on from the slope to the south and manage sediments along the southern boundary of the stockpile area. The containment basins located in the pothole washout area along the southern boundary of industrial activity, manage sediments and pothole washout water. Run-on from K-Site Road is managed by a vegetated swale that directs flows to the north, along the western boundary of the site.

- **Locations of all receiving waters.** The site discharges to a tributary of Canon de Valle which is impaired for Adjusted Gross Alpha. TMDLs for the receiving waters are not established and wetlands are not present. A map of nearby receiving waters is provided as Figure B-2.
- **Locations of all stormwater conveyances.** This includes all ditches, pipes, and swales.
- **Locations of potential pollutant sources.**
- **Locations of significant spills or leaks.**
- **Locations of all stormwater monitoring points.**
- **Locations of stormwater inlets and outfalls** Monitoring is conducted via automated sampler MSGP07801 at monitored outfall 078 (northwest corner of the boundary of industrial activity, north of earthen berm #1600103010001). There are no substantially identical discharge points (SIDPs) associated with this site.
- This facility is currently not associated with a municipal separate storm sewer system (MS4).
- **Areas of designated critical habitat for endangered or threatened species.** There are no areas in the direct vicinity of the facility. However, a map for threatened and endangered species within LANL property is included as Figure B-3.
- Locations of the following activities where such activities are exposed to precipitation:
    - Material Storage Area (storage and loading/unloading of sand, gravel, rock, base course, related to road maintenance and construction and storage of trucks and heavy equipment used to transport/haul material);
    - Pothole Staging Area (loading/unloading of pothole washout water and culvert cleanout water into the containment basins); and
    - Immediate access roads (used or traveled by carriers of raw materials and pothole washout culvert cleanout water).

## 2.0 POTENTIAL POLLUTANT SOURCES

Industrial activities that could potentially result in releases to the environment are summarized in Section 2.1 below. The site map for the facility is provided in Figure B-1.

### 2.1 Potential Pollutants Associated with Industrial Activity

Industrial activities that could potentially result in incidental releases to the environment are summarized below by activity type and area.

**Storage of Trucks and Heavy Equipment for Material Loading and Unloading**

Potential pollutants for this activity include spills of fuel, oil, grease, fluids (transmission and hydraulic), and anti-freeze and associated heavy metals. Perimeter berms are installed in strategic locations to contain spills in the event a leak involving a potential pollutant occurs.

**Material Loading/Unloading Operations**

Front-end loaders are used to load and unload sand, soil, clean fill, base course, and rock in the material storage area. Dust is a potential pollutant of concern from this operation and is controlled, as needed, by wetting the materials with a water truck. Other potential pollutants of concern from this equipment include leaks and spills (i.e., hydraulic fluids or diesel fuel) from loading and unloading trucks. On-site containment berms and spill response protocol ensure all spills are managed appropriately.

**Raw Material Storage Area**

The potential pollutant associated with this activity is offsite migration of sediment. Perimeter berms are installed in strategic locations to manage stormwater runoff and prevent sediment migration.

**Pothole Staging Area**

Potholing washout and culvert cleanout water is screened to verify it is from area free from contamination. The potential pollutant is offsite migration of sediment. One primary containment basin and a reserve containment basin function to contain, infiltrate, and evaporate pothole washout and culvert cleanout water. Sediments are removed as needed to ensure the catchments have adequate capacity to manage pothole washout and culvert cleanout water. Other potential pollutants include leaks or spills of fuel, oil, grease, fluids (transmission and hydraulic), anti-freeze and associated heavy metals from heavy equipment performing work in the area. In the event a leak is identified, LANL spill response protocol is followed (i.e., on-site spill response kit and notifications) as specified in Section 3.1.4.

**Clean Fill Material**

Clean fill is defined in the LANL policy "Excavation/Fill/Soil Disturbance," Policy Number P101-17 Rev. 7, as uncontaminated, non-water-soluble, non-decomposable inert solid material. Fill material (concrete and/or asphalt from LANL decontamination and decommissioning efforts or other projects) or soil used as fill material at LANL must be demonstrated to be free of contamination, must not be placed in a watercourse, and must not create a public nuisance or impact the environment.

Clean fill used in accordance with P101-17 Rev. 7 is not managed as waste and therefore, not subject to waste management regulations. The use of clean fill includes the transportation, processing, storage, management, and reuse.

Environmental due diligence is performed to determine whether material can be managed as clean fill or will be managed as waste in accordance with applicable waste management regulations. If any of the following indicators are present, the material may contain potential pollutants.

- Operations conducted at the location of origin that may have resulted in contamination of the fill material or soil [e.g., operations within the High Explosives corridor, within an open detonation blast radius, beryllium contamination area, area potentially contaminated with depleted uranium, or soil taken from outside of PHERMEX, or potential release sites (also known as Consent Order Sites)].
- Visual examination identifies signs of staining.
- Material removed from potentially radioactively contaminated areas; or
- Unusual odors or other indicators of contamination are detected.

If there is a possibility that the material may contain potential pollutants, contact the Sample Management Office (SMO) at 505-665-9876 and request assistance with sampling and analysis of the material.

If the following occurs, the material is appropriate for acceptance at the TA-16 Stockpile Area and may be reused within WFO-FOD as clean fill.

- Evaluation of the material is approved per Attachment 25.
- If potential pollutants may be present in the material, representative samples will be collected and analyzed for all potential pollutants. If none are present in the material or are present at or below background concentrations.

If it is determined that the material is contaminated, it will be managed as waste in accordance with applicable waste management regulations and P409, *LANL Waste Management*. Contact the assigned Waste Management Coordinator for assistance.

***NOTE**: Clean fill does not include decomposable material such as land clearing wood and other materials.*

If a project requires fill or material transfer, and the original Excavation Permit (EXID) does not include it in the scope of work, a separated EXID must be requested. Prior to transfer of material to the TA-16 Stockpile Area, obtain concurrence from the FOD/designee (at the receiving location) in the form of written approval on an EXID. Material moving from any TA within WFO FOD other than TA-16 will require approval on the EXID. Prior to releasing fill material or soil for use outside of the LANL facility boundary, the Project Coordinator, PIC, or FOD/designee will submit to Environmental Protection Division, Waste Management Programs Group (667-8160) documentation establishing that the material or soil is not contaminated and obtain approval or submit a Waste Steam Profile for approval prior to off-site disposition of this material.

Do not abandon excavated material, debris, or equipment onsite at LANL because doing so is considered mismanagement and abandonment of waste.

**Other Potential Pollutant Sources**

The following two Solid Waste Management Units (SWMU) or Consent Order Sites 16-003(h) and Area of Concern (AOC) 16-030(d) are located within the boundary of industrial activity for the TA-16 Stockpile Area. Earthen berm (#1600103010002) located south of the stockpile area manages sediment and runoff from the southern portion of the site. Therefore, it is unlikely that SWMU 16-003(h) and AOC 16-030(d) would be impacted by stormwater runoff generated from the site.

- 16-030(d) – Former NPDES-permitted outfall [Environmental Protection Agency (EPA) 05A061] and associated drain line formerly connected to high explosive (HE) sump 16-003(h). Decision-level data for SWMU 16-030(d) consists of results from 11 samples collected at 7 locations in 1995 at and down gradient of the AOC 16-030(d) outfall. The 2006 investigation work plan concluded the nature and extent of contamination have not been defined and additional sampling is recommended. Human health and ecological risk assessments have not been conducted since the nature and extent of contamination have not been defined. All detected inorganic chemical concentrations are below residential soil screening levels (SSLs) except chromium, which was detected above the residential SSL in one sample. Numerous organic chemicals were detected in the 1995 samples; nine SVOCs [(polycyclic aromatic hydrocarbons (PAHs)] were detected at concentrations above residential and construction worker SSLs.

- 16-003(h) – Inactive HE sump. Decision-level data for SWMU 16-003(h) consists of results from 11 samples collected at 7 locations in 1995 at the site and down gradient of the AOC 16-030(d) outfall. The 2006 investigation work plan concluded the nature and extent of contamination have not been defined and additional sampling is recommended. Human health and ecological risk assessments have not been conducted since the nature and extent of contamination have not been defined. All detected inorganic chemical concentrations are below residential SSLs except chromium, which was detected above the residential SSL in one sample. Numerous organic chemicals were detected in the 1995 samples; nine SVOCs (PAHs) were detected at concentrations above residential and construction worker SSLs.

## 2.2 Spill and Leaks

Spills and leaks that occurred after March 1, 2021, the issuance date of the 2021 MSGP, are summarized in Table 1A below.

**Table 1A: Spill and Leak History**

| Date | Description | Outfall(s) Affected |
|---|---|---|
| 11/12/2025 | Approximately 2 cups of hydraulic oil from a skid steer performing work at the TA-16 Stockpile impacted asphalt at entrance to Stockpile Yard. Absorbent and Micro-Blaze were applied. | 078 |

**Table 1B: – Areas Where Spills/Leaks Could Occur**

| Specific Equipment/Industrial Activity Areas and Location | Outfall Affected |
|---|---|
| Material Storage Area | 078 |
| Pothole Washout Area | N/A |

In the event of any future spill or leak at any of the facility areas, a spill report, documenting the occurrence and the nature of the spill or leak, will be completed. The spill report will be filed promptly upon completion and documentation of the spill clean-up and will be summarized in this section of the SWPPP (see Table 1A above). In addition, spills within MSGP facility boundaries will be entered as conditions requiring corrective action in the MSGP CAR database and will be updated as corrective action occurs, in accordance with EPC-CP-QP-2109, *MSGP Corrective Actions*.

The probability of spills or releases at the facility is minimized by the application of good housekeeping procedures and appropriate operational methods. Appropriate response measures for a spill or release of hazardous materials are applied when addressing spills. The specific spill response and cleanup process depends on the nature of the spilled material. Specific spill response and reporting procedures for LANL are listed in Section 3.1.4.

## 2.3 Unauthorized Non-Stormwater Discharges

NPDES non-stormwater discharges, unpermitted outfalls, or unauthorized discharges associated with the facility are not anticipated. There are no potential sources of non-stormwater discharges (e.g., testing of fire hydrants) identified at the site. The "Certification of No Unauthorized Stormwater Discharges" is in Attachment 3. This form certifies that the facility and stormwater outfall has been evaluated for the presence of non-stormwater discharges. This form is updated whenever a change in possible non-stormwater discharges is determined**.**

## 2.4 Salt Storage

No salt storage or piles that contain salt are present at the facility. There is no salt storage anticipated for this facility as part of an industrial activity.

## 2.5 Historical Data Summary

**Permitted Facility: TA-16 Stockpile Area**

Calendar Year 2025

| **Monitored Outfall** | **Discontinue Monitoring** | | **Continue Monitoring** | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Average of four monitoring values did not exceed benchmark or met criteria for natural background exception; quarterly monitoring discontinued for the duration of the permit. | Impaired water constituent was not detected in storm water discharge or met criteria for natural background exception; annual monitoring discontinued for the duration of the permit. | **Benchmark Monitoring Status** | | | | Indicator parameter monitoring required annually for entirety of permit. | Impaired water constituent was detected. Continue monitoring annually. |
| | | | Baseline | AIM Level 1 | AIM Level 2 | AIM Level 3 | | |
| 078 | — | Adjusted Gross Alpha | N/A | N/A | N/A | N/A | TSS, COD, pH | — |

N/A - Not applicable. Sector-specific requirements do not include benchmark monitoring.
AIM = Additional Implementation Measures
COD = Chemical Oxygen Demand
TSS = Total Suspended Solids
pH = Potential Hydrogen (Acidity or Alkalinity)

# 3.0 STORMWATER CONTROL MEASURES

Control measures at the facility are designed to minimize the potential release of pollutants that could adversely affect water quality.

Perimeter sediment controls for material storage consist of earthen berms installed along the northwest and southern portions of the industrial activity area. These berms are strategically located to intercept runoff from the stockpiles and manage sediment and other potential pollutants from potential spills generated from heavy equipment or trucks used to transport, load, and unload material.

The run-on control at the material storage area consists of a vegetated swale located east of K-Site Road which functions to intercept sheet flow from the paved surface and convey flow to the north, away from the material storage area.

Erosion controls for the material storage area include existing vegetation, basecourse, and pavement that function as stabilization for all surfaces impacted by the TA-16 Stockpile Area activities.

Two catchment basins located in the pothole washout area located on the southern perimeter of the industrial activity boundary function to contain, infiltrate, and promote evaporation for pothole washout and culvert cleanout water.

## 3.1 Non-Numeric Technology-Based Effluent Limits

Specific non-numeric technology-based effluent limits for Sector P are identified below.

The following sector-specific non-numeric effluent limits are addressed at this facility:

**Good Housekeeping**

Refer to Section 3.1.2 below. None of the following occur at this facility.

- GSA Vehicle Fueling
- Vehicle and equipment cleaning; or
- Vehicle or equipment maintenance.

**Vehicle and Equipment Storage Area**

- Only well-maintained vehicles and heavy equipment are stored at the TA-16 Stockpile Area. Drip pans are placed under any vehicle/heavy equipment found to be leaking and it is then sent off for maintenance. Any identified spills or leaks are managed in accordance with Section 3.1.4.

**Material Storage Area**

- Gravel, rock, base course, sand, soil, and clean fill are transported, unloaded, staged, and loaded in this area. Heavy equipment and trucks are used to facilitate this operation.

**Potholing Staging Area**

- This area consists of two catchments used to place pothole washout materials. These

catchments function to infiltrate and facilitate the evaporation of the pothole washout water. Sediments are removed once the catchments are filled to seventy-five percent capacity. Heavy equipment and trucks are used to facilitate this operation. Sections 3.1.5 and 3.1.6 describe how non-numeric limits area met.

Non-numeric technology-based effluent limits for all industrial sectors are identified in the following subsections.

### 3.1.1 Minimize Exposure

Control measures at the facility are designed to minimize the potential for spills, releases, exposure of materials, or any other events that could adversely affect water quality and sedimentation/erosion.

Section 3.0 *Stormwater Control Measures* identifies the structural controls specific to the two industrial activity areas at the facility. Spill response to leaks from heavy equipment or vehicles used to transport and load/unload material is described in Section 3.1.4 *Spill Prevention and Response*.

### 3.1.2 Good Housekeeping

Good housekeeping practices specifically applicable to the prevention of stormwater contamination include the following measures:

- Sweep or vacuum at regular intervals or, alternatively, wash down the area and collect and/or treat, and properly dispose of the washdown water.
- All site areas are walked down during daily operations and quarterly routine facility inspections to ensure that the grounds are kept in an orderly condition. The entire site, including loading/unloading areas, the potholing staging area, and the outfall, are inspected for floatable debris, garbage, waste, and other potential pollutants.
- During loading and unloading operations at the material storage area, all vehicles and equipment are confined to the designated boundary of industrial activity to prevent impact to existing vegetation at the site. Stockpiles are managed by the perimeter earthen berms to minimize the potential for off-site sediment migration. Basecourse stabilization is always maintained to minimize the potential for tracking onto K-Site Road. If tracking is observed, sweeping will be performed by close of business that day.
- The potholing staging area catchments are inspected during daily operations and quarterly routine facility inspections to determine whether adequate capacity is available to prevent overflow conditions in the event of a precipitation event. Twenty-five percent of the total catchment capacity will be available at all times to accommodate precipitation and prevent inadvertent discharge of pothole or culvert cleanout water. Inspections are conducted when the catchments are dry to assess sediment accumulation and to determine if sediment removal is required. Base course stabilization along the surfaces of the access road to the catchments is maintained at all times to minimize the potential for tracking onto K-Site Road. If tracking is observed, sweeping will be performed by close of business that day.
- Trucks and heavy equipment used to transport, load, and unload material staged at the material storage area are properly maintained to minimize the potential for leaks. During daily operations and quarterly, inspections are conducted to check for spills or leaks and the facility procedure (WFO-IWD-0016 Rev. H, *Spill Response and Clean Up in Weapons Facilities Operations (WFO)*

*Areas)* is followed if a leak is discovered. Heavy equipment repair and maintenance is never performed at this site.

- Garbage and floatable materials are routinely picked up by facility personnel. Garbage containers are not staged at this site.

### 3.1.3 Maintenance

Control measures at the facility are kept in effective operating condition by the implementation of scheduled preventive maintenance, standard operating procedures (SOPs), and engineering guidance. If control measures need to be replaced or repaired to maintain compliance with the 2021 MSGP, corrective action is taken in accordance with the timelines specified in the *Corrective Action and Deadlines* requirements in Section 6.0 of this SWPPP.

Deficient items identified during routine facility inspections, walk-downs, or by any other means of identification, are documented on the routine facility inspection forms and entered into the MSGP CAR database. All reasonable steps are taken immediately to address any identified condition requiring corrective action. The condition requiring corrective action will remain open until proper maintenance or corrective action has been completed. CAR information, along with documentation of maintenance/repair of control measures, is in Attachment 9 of the SWPPP.

**NOTE**: “All reasonable steps" means that the permittee has responded to the condition(s) triggering the action, such as, cleaning up any exposed material that may be discharged in a storm event (e.g., through sweeping, vacuuming) or making arrangements (i.e., scheduling) for a new stormwater control measure (SCM) to be installed."

Trucks and heavy equipment used to transport, load, and unload material staged at the material storage area are properly maintained to minimize the potential for leaks. During daily operations and quarterly, inspections are conducted to check for leaks and the facility procedure is followed if a leak is discovered.

The pothole washout area catchments are inspected during daily operations and quarterly routine facility inspections to check for adequate capacity to prevent overflow conditions in the event of a precipitation event. Twenty-five percent of the total catchment capacity will be available at times to accommodate precipitation and prevent inadvertent discharge of pothole or culvert cleanout water. Routine facility inspections are conducted when the catchments are dry to assess sediment accumulation and to determine if sediment removal is required. If sediments/solids/ are removed they are managed, characterized, and disposed of in accordance with the applicable LANL waste management policies and procedures, unless the material can be demonstrated to be free of contamination. If the sediments/solids are free of contamination and other trash, the material may be used as clean fill at WFO FOD (see Section 2.1 and Attachment 25 for additional information regarding the management of clean fill material).

Earthen berms located around the perimeter of the material storage area are inspected during daily operations and quarterly routine facility inspections.

### 3.1.4 Spill Prevention and Response

Spills, leaks, or other releases are minimized and/or prevented by maintaining heavy equipment and trucks, staged at the material storage area, on a regular basis and inspecting for leaks daily during operations and quarterly during routine facility inspections. The approach to spill cleanup within WFO is

provided in Attachment 24. This procedure is for cleanup of spills deemed a non-emergency (or identified as simple spills) by Emergency Management Response (EM-RESP) and EPC-CP. Spills are categorized as either simple spills or complex spills. Simple spills are defined as ones that do not spread rapidly, do not endanger people or property (except by direct contact), do not endanger the environment, and do not involve fire or an explosive condition or the potential for such. All other spills are identified as complex spills and require assistance from the Emergency Operations Support Center (EOSC).

Simple spills are cleaned up by knowledgeable chemical workers (workers with knowledge of the chemical, appropriate training, material, and PPE needed to clean the spill). For incidental releases, Micro-Blaze® or dry absorbents can be used, and spill clean-up materials are containerized and managed as waste.

All complex/emergency spills or releases are reported to the EOSC by calling 667-2400 and the Facility Duty Officer by dialing pager number 664-2926 and 664-4100 for RCT support (if needed). All spills or releases are reported to EPC-CP by using the spills pager (505) 664-7722. If fire or explosion is present, or if the potential for such exists, the situation is reported by dialing 911 from a cellular phone or by activating a fire pull box. In the event of a spill, EM-RESP will coordinate appropriate cleanup procedures and EPC-CP will notify the individuals or organizations responsible for completing spill reports and providing information needed to fulfill regulatory reporting requirements.

Unauthorized releases or discharges within industrial facility boundaries are entered into the MSGP CAR database in accordance with EPC-CP-QP-2109, *MSGP Corrective Actions*. In addition, the completion of an Unplanned Release Report is required in the event of a spill. The report is submitted to EPC-CP personnel and handled according to internal spill record keeping procedures. Spills may be “reportable” (requiring external agency notification) depending on the nature of the spilled material and the location of the release. External agency notification may consist of verbal and/or written notification to the National Response Center, Environmental Protection Agency Region VI, or the New Mexico Environment Department (NMED). EM-RESP, the FOD and EPC-CP, in accordance with Laboratory and DOE policies and federal and state regulatory reporting requirements, will make the determination for the type of reporting required. EPC-CP-QP-903, *Environmental Reporting Requirements for Releases or Events* is used for this purpose (see Attachment 21).

Copies of internal spill reports are maintained by the responsible organization and in the EPC-CP database. The EPC-CP procedure for spill reporting and response, EPC-CP-QP-1007*, Unplanned Releases,* can be found in Attachment 22 of this SWPPP.

### 3.1.5 Erosion and Sediment Control

Erosion at the site will be controlled through the preservation of existing native vegetation and the installation and maintenance of base course stabilization along access areas and material storage areas where stockpiles are staged. Sediment control perimeter berms and pothole washout and culvert cleanout catchments function to retain sediments and prevent offsite sediment migration.

### 3.1.6 Management of Runoff

Runoff from the site is minimized through preservation of existing vegetation and stabilization measures involving impervious material such as base course. Run-on is minimal at the site as all flows generated

from K-Site Road are captured by the vegetated swale located along the western perimeter of the industrial activity boundary. Runoff is managed by perimeter berms located on the southern and northwestern perimeters of the site.

#### 3.1.7 Salt Storage Piles or Piles Containing Salt

No salt storage or piles containing salt are present at the facility.

#### 3.1.8 Dust Generation and Vehicle Tracking of industrial Materials

Dust generation and vehicle tracking are controlled with pavement/base course stabilization, street sweeping and or dust suppression with potable water.

### 3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines

This facility does not meet the industrial category requirements for effluent monitoring as listed in Part 1.2.1.4 (*Table 1-1 Applicable Effluent Limitation Guidelines*) of the 2021 MSGP.

Part 8 of the 2021 MSGP identifies sector-specific requirements for Sector P – Land Transportation and Warehousing, in addition to the numeric limits outlined in this section. The facility must comply with requirements associated with the primary industrial activities described in Section 1.3 and any co-located industrial activities as defined in Appendix D of the 2021 MSGP. Sector-specific requirements apply only to areas where sector-specific activities occur.

### 3.3 Water Quality-Based Effluent Limitations and Water Quality Standards

**Impaired Receiving Waters/No TMDLs**

Impaired waters monitoring is performed annually at the facility as listed in Section 4.7 of this SWPPP. The pollutants monitored can change yearly based on the requirements of the MSGP. The table in Section 4.7 lists the current year monitoring requirements and standards.

Stormwater from the TA-16 Stockpile Area discharges to Assessment Unit NM-128.A_01, Canon de Valle (within LANL) Below LANL Gage E256. This reach of Canon de Valle has been identified as an impaired water for Adjusted Gross Alpha by the NMED Surface Water Quality Bureau (SWQB) per the 2022-2024 State of NM Clean Water Act 303b/305b Integrated Report and Final List. EPA has not yet approved or established TMDLs for Canon de Valle. Sections 3.1.1 through 3.1.8 describe controls measures used to ensure discharges from industrial activities meet the water quality standards. Refer to Section 4.7 for specific actions that will be taken when a water quality standard is exceeded.

## 4.0 SCHEDULES AND PROCEDURES

Preventative maintenance of control measures used to comply with non-numeric effluent limits can avoid situations that result in discharges to the environment. Part 6.2.5 of the 2021 MSGP specifies control measures will have a schedule or frequency for maintenance and procedures specifying how maintenance is conducted. Part 6.5 requires documentation of maintenance and repairs including the date(s) of regular maintenance. See Attachment 10 for the Scheduled Maintenance Log.

## 4.1 Good Housekeeping

See Section 3.1.2 of this SWPPP.

## 4.2 Maintenance

See Section 3.1.3 of this SWPPP.

## 4.3 Spill Prevention and Response

See Section 3.1.4 of this SWPPP.

## 4.4 Erosion and Sediment Control

See Section 3.1.5 of this SWPPP.

## 4.5 Employee Training

Employee training is essential for effective implementation of the SWPPP and MSGP requirements. The goals for the training program are to ensure that employees: (1) are aware of what happens when pollutants come in contact with stormwater; (2) are familiar with and will implement the requirements of this SWPPP; (3) are capable of preventing spills; (4) respond safely and effectively to an accident when one occurs; (5) recognize when there is an issue with a control measure; (6) recognize when additional control measures are necessary; and (7) identify situations that could lead to stormwater contamination.

Per Part 2.1.2.8 of the 2021 MSGP, training relevant to the SWPPP and MSGP is required for all workers at the facility that work in areas where industrial materials or activities are exposed to stormwater (MSGP sites); workers, managers, and supervisors who are responsible for implementing activities necessary to meet the conditions of this permit (e.g., inspectors, maintenance personnel); and all members of the PPT. Training is designed to ensure these personnel understand the MSGP and SWPPP requirements, as well as their specific responsibilities regarding these requirements.

Training provided and assigned to these personnel cover both the specific control measures used at the facility; along with monitoring, inspection, planning, reporting, and documentation requirements described in this SWPPP. Training will be conducted at least annually. The EPC-CP Deployed Environmental Professionals Team Leader and PPT members are responsible for ensuring all appropriate personnel receive this training.

Training activities are documented in accordance with LANL's Training Standards. In cases where training is formalized enough to require specific curricula and recurrence, the training activity will be recorded in LANL's official U-TRAIN database. Informal briefings, such as those included in-group safety meetings are not typically recorded in U-TRAIN. Sign-in sheets are used to document attendance and are considered controlled unclassified information (CUI). All training records are managed in accordance with P204-1, *Sensitive Unclassified Information*. Information on employees receiving training is available upon request.

The topics in this SWPPP that are covered in the latest version of the facility specific annual MSGP training (see Attachment 11) include the following:

- Overview of the SWPPP contents.
- Spill response and cleanup procedures, good housekeeping, maintenance requirements, and material management practices to prevent stormwater pollution.
- The location of all controls on the site required by this permit and how they are maintained.
- The proper procedures to follow with respect to the permit's pollution prevention requirements; and
- When and how to conduct inspections, record applicable findings, and take corrective actions.

## 4.6 Routine Facility Inspections and Quarterly Visual Assessments

Routine inspections at this facility are conducted and documented quarterly in accordance with EPC-CP-QP-2108*, MSGP Routine Facility Inspections* (Attachment 16).

Visual assessments are conducted in accordance with EPC-CP-QP-2105*, MSGP Stormwater Visual Assessments* (Attachment 18).

### 4.6.1 Routine Facility Inspections

At least once each calendar year, the routine facility inspection is conducted during a period when a stormwater discharge is occurring. A qualified member of the PPT (typically the DEP, a representative from the EPC-CP Storm Water Permitting/Compliance Team or EPC-CP Program Lead) performs the inspection.

Routine inspections will evaluate the following areas, at a minimum:

- Areas where industrial materials or activities are exposed to stormwater.
- Areas identified in the SWPPP and those that are potential pollutant sources.
- Areas where spills and leaks have occurred in the last four years.
- Discharge points (outfalls/SIDPs); and
- Control measures used to comply with the effluent limits contained in this permit.

*Specific areas of the facility to be inspected are described in Section 2.1.*

During routine inspections, the following are examined:

- Industrial materials, residue or trash that may have or could encounter stormwater.
- Leaks or spills from industrial equipment, drums, tanks, and other containers.
- Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site.
- Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas; and
- Control measures needing maintenance, repairs, or replacement.

Inspections performed by the PPT member are documented by completing the routine facility inspection form, which identifies all conditions requiring corrective action and other potential stormwater pollution issues that were encountered. All conditions requiring corrective actions identified during the inspection are addressed in accordance with Section 6.0 *Corrective Actions and Deadlines* of this plan. Facility personnel or the DEP may also perform daily, weekly, or other periodic facility surveys (walk downs) between quarterly routine facility inspections to ensure compliance with the SWPPP and MSGP. Completed routine facility inspection forms are provided in Attachment 7 of this SWPPP and meet the requirements listed in the 2021 MSGP (Part 3.1.2.).

#### 4.6.2 Quarterly Visual Assessments

Once each quarter (January-March, April-June, July-September, October-December), a stormwater sample is obtained and visual assessment performed at each outfall, if a measurable storm event occurred. A qualified member of the PPT (DEP, EPC-CP Storm Water Permitting/Compliance team member or MSGP Program Lead) conducts the visual assessment. The visual assessment will be:

- Of a sample in a clean, clear colorless glass or plastic container and examined in a well-lit area.
- On samples collected within the first 30 minutes of an actual discharge from a storm event or as soon as practicable thereafter. Alternatively, document why it was not possible to collect the sample within the first 30 minutes (i.e. adverse conditions, not enough flow, etc.); and
- Conducted at least 72 hours since the last storm event; or document that the 72-hour period is representative of local storm events during the sampling period.

**NOTE:** Snowmelt samples need only be collected during a period of measurable discharge.

The visual assessment will inspect for the following water quality characteristics: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution.

If a visual assessment is not conducted during a quarter:

- Document rationale (no precipitation event or adverse conditions, etc.); and
- Perform an additional assessment during the next qualifying storm event if unable to perform in a particular quarter.

Perform one quarterly assessment during snowmelt discharge (taken during a measurable discharge from the site).

For facilities with SIDPs, quarterly visual assessments may be performed at only one of the outfalls, provided that you perform visual inspections on a rotating basis at each substantially identical outfall (SIDP).

The PPT member performing the visual assessment documents potential stormwater pollution problems that were observed during the assessment on the quarterly visual assessment form. Any conditions requiring corrective action identified during the assessment is addressed in accordance with Section 6.0 *Corrective Actions and Deadlines* of this plan. Completed quarterly visual assessments are provided in Attachment 8 of this SWPPP and meet the requirements listed in the 2021 MSGP (Part 3.2.2).

## 4.7 Monitoring

Analytical monitoring for this site is comprised of Impaired Waters monitoring and is performed

annually on stormwater discharges from the site. Indicator parameters are monitored quarterly. No benchmark monitoring is required for this site. Monitoring occurs when storm events result in an actual discharge from the site and follow the preceding measurable storm event by at least 72 hours (3 days), unless documented that the storm event is representative of local storm events during the sampling period. For runoff from snowmelt, the monitoring is performed at a time when a measurable discharge from the site occurs.

Monitoring is conducted according to test procedures approved under 40 CFR Part 136. Runoff samples are collected by taking a minimum of one grab sample from a discharge, collected within the first 30 minutes of a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of a measurable storm event, the sample is collected as soon as practicable after the first 30 minutes and documentation is kept with the SWPPP explaining why it was not possible.

LANL is in a high elevation, semi-arid climate where the majority of rainfall occurs during a period between July and September. Freezing conditions that would prevent runoff from occurring for extended periods may also occur during the winter months. If adverse weather conditions prevent the collection of a sample according to the relevant monitoring schedule, a sample will be collected during the next qualifying storm event or as soon as practicable.

Monitoring occurs at automated sampling station **MSGP07801** as identified in Section 1.4. Discharge from the facility is east to Canon de Valle (impaired waters), which is a tributary of the Rio Grande located approximately two miles east of the facility.

For impaired waters pollutants, monitoring is required annually in the first and fourth year of permit coverage. If any pollutant associated with the impairment is detected, annual monitoring will continue.

If the impaired water constituent value exceeds the New Mexico Water Quality criterion, the Pollution Prevention Team will:

- Review the selection, design, installation, and implementation of control measures to determine if modifications are necessary to meet the effluent limits.
- Implement the necessary modifications within the timeframe specified for corrective action; and
- Continue annual monitoring of the constituent (as required by Part 4.2 of the 2021 MSGP).

For each monitoring event, except snowmelt monitoring, the following information is recorded and maintained through work orders, LANL database systems, and Discharge Monitoring Records:

- The date, exact place, and time of sampling or measurements.
- The date and duration (in hours) of the rainfall event.
- Rainfall total (in inches) for that rainfall event.
- The individual(s) who performed the sampling or measurements.
- The date(s) analyses were performed.
- The individual(s) who performed the analyses.
- The analytical techniques or methods used; and
- The results of such analyses

All records of monitoring information, including all calibration and maintenance records are maintained for a minimum period of at least three years from the date the permit expires.

LANL's applicable stormwater monitoring procedures can be found in the following Attachments:

- EPC-CP-TP-2103, *Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples* (Attachment 19)
- EPC-CP-QP-2106, *Processing MSGP Stormwater Samples* (Attachment 20).

The table on the following page lists the current monitoring requirements. The monitoring values have been modified to reflect New Mexico water quality standards and are based on the most protective water quality standards from the Standards for Interstate and Intrastate Surface Waters (effective on February 28, 2018), 20.6.4.900 NMAC; and as set forth in Part 9.6.2.2 of the 2021 MSGP.

## Section 4.7 Required Monitoring for Calendar Year 2026

| Outfall | Monitoring Requirement | Industrial Sector | Assessment Unit | Analyte | Filtered/ Unfiltered | Regulatory Standard | Units | Regulatory Standard Type | Regulatory Standard Reference |
|---|---|---|---|---|---|---|---|---|---|
| 078 | Indicator Parameter | P | — | COD | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | TSS | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | pH | UF | N/A | SU | Report Only | Part 4.2.1.1 |
| | Quarterly Benchmark | P | No Benchmark Monitoring Required | | | | | | |

UF = Unfiltered
N/A = Not applicable
COD = Chemical Oxygen Demand
TSS = Total Suspended Solids
pH = Potential Hydrogen (Acidity or Alkalinity)
mg/L = Milligrams per Liter
SU = Standard Units
NM = New Mexico

# 5.0 DOCUMENTATION FOR ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

## 5.1 Endangered Species

The Final Site-Wide Environmental Impact Statement (EIS) for the Operation of Los Alamos National Laboratory (DOE/EIS-0380) was issued in May 2008, and a Record of Decision in September 2008. Stormwater issues and associated pollution prevention requirements and activities at LANL are analyzed in Chapters 4 and 5 of the 2008 Site-Wide EIS. These activities are integrated into environmental reviews on a project-specific level through LANL's Integrated Review Tool (IRT), which incorporates both the Excavation Permit (EX-ID) and Permit Requirements Identification (PR-ID) process. Stormwater issues are identified, and pollution prevention activities are implemented during the design and construction phases of all LANL projects, and as part of facility operations, including routine maintenance. LANL staff monitors stormwater pollution prevention compliance at MSGP sites in accordance with Section 4.7 *Monitoring* of this plan. Corrective actions are taken as necessary as described in Section 6.0 *Corrective Actions and Deadlines* of this plan.

Part 2.3 of the 2021 MSGP requires areas of designated critical habitat for endangered or threatened species, as applicable, be included in the SWPPP. The *Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory* (LA-UR-22-20556) (see Attachment 13). This document provides a management strategy for the protection of threatened and endangered species and their habitats on LANL property. The MSGP NM IPaC Trust Resource Report (see Attachment 14) is also attached for informational purposes.

## 5.2 Historic Properties

In April 2021, August 2015, and December 2008, the Cultural Resources Team (using Global Positioning System spatial data as well as conducting visual inspections), reviewed the Laboratory industrial sites (see list below) and their associated outfalls and monitoring stations subject to the 2021 Multi-Sector General Permit (NMR050013 MSGP 2021) for effects on historic properties. All sites were found to be undertakings of no effect and in compliance with Section 106 of the National Historic Preservation Act (i.e., Criterion B).

- TA-09-0214 Metals Fabrication Shop
- TA-03-0038 Metal Fabrication Shop
- TA-16 Stockpile Area
- TA-60 Asphalt Batch Plant
- TA-60-0001 Heavy Equipment Yard
- TA-60 Material Recycle Facility
- TA-60 Roads and Grounds
- TA-60-0002 Warehouse

# 6.0 CORRECTIVE ACTIONS AND DEADLINES

When any of the following conditions occur or are detected during an inspection, Level 1, 2, or 3 additional implementation measures (AIM) monitoring or any other means, this SWPPP (e.g., sources of pollution; spill and leak procedures; non-stormwater discharges; the selection, design, installation, and

implementation of control measures) is reviewed and revised (as appropriate).

- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the U.S.) occurs at the facility.
- A discharge violates a numeric effluent limit.
- Stormwater control measures are not stringent enough for stormwater discharge to be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards or to meet the non-numeric effluent limits in the permit.
- An inspection identifies that a required control measure was never installed, was installed incorrectly or is not being properly operated or maintained; or
- Whenever a visual assessment shows evidence of stormwater pollution.

The purpose is to ensure effluent limits of the 2021 MSGP permit are met, and pollutant discharges are minimized.

When any of the following conditions occur, a review of the selection, design, installation, and implementation of control measures is performed to determine if modifications are necessary to meet the effluent limits in this permit:

- Construction or a change in design, operation, or maintenance at the facility significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged; or
- If an impaired water constituent exceeds the NM Water Quality criterion (see Section 4.7).

If any of the AIM triggering events (i.e., an annual average exceeds an applicable benchmark threshold) in Parts 5.2.3, 5.2.4, or 5.2.5 occur, PPT members must follow the response procedures described in those parts. An annual average exceedance for a benchmark parameter can occur if:

1) The four-quarter annual average for a parameter exceeds the benchmark threshold, or

2) Fewer than four quarterly samples are collected, but a single sample or the sum of any sample results within the sampling year exceeds the benchmark threshold by more than four times for a parameter.

There are three AIM levels: AIM Level 1, Level 2, and Level 3. PPT members must respond, as required, to different AIM levels which prescribe sequential and increasingly robust responses when a benchmark exceedance occurs. The corresponding AIM level responses and deadlines described in Parts 5.2.3.1, 5.2.3.2, 5.2.4.1, 5.2.4.2, 5.2.5.1 and 5.2.5.2 must be followed unless the facility qualifies for an exception under Part 5.2.6."

When the review identifies the need to modify the SWPPP, it will be revised within 14 calendar days of completion of the associated condition requiring corrective action.

## 6.1 Immediate Actions

When a condition requiring corrective action is identified, all reasonable steps necessary to minimize or prevent the discharge of pollutants are immediately taken (i.e., spill clean-up, scheduling repairs) until a permanent solution (if needed) can be implemented. Immediate action means all reasonable steps are

taken the same workday or no later than the following workday (when it is too late in the day to take corrective action).

## 6.2 Subsequent Actions

When additional corrective actions are required (e.g., installing or making operational a new or modified control, completing repairs, ordering BMPs) they will be completed by the next storm event, if possible, or within 14 calendar days (from initial discovery). When it is determined that it is infeasible to complete corrective actions within 14 days, documentation of infeasibility and a schedule for completion of the work is documented in the CAR database, which will be completed no later than 45 days (from initial discovery). When it is determined that corrective actions will exceed 45 days, EPA is notified and provided justification of why actions will exceed the timeframe; and a minimal amount of additional time to complete the work may be approved.

## 6.3 AIM Baseline Status and Triggering Events

Once the facility is authorized to discharge under the MSGP, it is considered to be in a baseline status for all applicable benchmark parameters required by that facility to be monitored. If an AIM triggering event occurs, the facility may return directly to baseline status once the corresponding AIM-level response and conditions are met.

### 6.3.1 AIM Level 1

When an annual average exceeds an applicable benchmark threshold, the PPT must immediately review the MSGP SWPPP and the selection, design, installation, and implementation of stormwater control measures to ensure the effectiveness of existing measures and determine if modifications are necessary to meet the benchmark threshold for the parameter that exceeded.

**NOTE:** An AIM triggering event is outfall and parameter specific.

After reviewing the SWPPP, additional measures, considering good engineering practices, will be implemented, that will reasonably be expected to bring the exceedance below the parameter's benchmark threshold.

**NOTE:** If it is determined that nothing further is required to bring the exceedance below the parameter's benchmark threshold for the next 12-month period, document this in the MSGP CAR database.

All modifications and additional control measures required in response to AIM Level 1 will be implemented within 14 days of identification of an AIM Level 1 exceedance. If doing so within 14 days is infeasible, documentation is entered into the MSGP CAR database as to why it is infeasible. Completion of the response must occur within 45 days.

**NOTE:** There is no provision in the 2021 MSGP for exceeding the 45-day time frame for response to AIM Level 1.

An additional four quarters of Benchmark monitoring will occur at the outfall where the parameter exceeded the benchmark threshold for AIM Level 1. This monitoring will begin no later than the next full quarter after all responses and deadlines required by AIM Level 1 have

been completed. After four quarters of monitoring, the parameter will either return to baseline (see Section 6.3) if it does not exceed the same benchmark threshold or, another annual average exceeds the benchmark threshold causing the facility to move to AIM Level 2

### 6.3.2 AIM Level 2

When a second benchmark threshold exceedance occurs at an outfall, the PPT will review the SWPPP and implement additional pollution prevention/good housekeeping SCMs, (considering good engineering practices), beyond those implemented in response to AIM Level 1.

Additional control measures required in response to AIM Level 2 will be implemented within 14 days of identification of the AIM Level 2 exceedance. If it is feasible to implement a measure, but not within 14 days, facility personnel may take up to 45 days to implement the measure. In this case, documentation will be entered into the MSGP CAR database identifying why it was infeasible to implement the control measure within 14 days. EPA may grant an extension beyond 45 days, based on an appropriate demonstration by the operator.

An additional four quarters of benchmark monitoring will occur at the outfall where the parameter exceeded the benchmark threshold for AIM Level 2. This monitoring will begin no later than the next full quarter after all responses and deadlines required by AIM Level 2 have been completed. After four quarters of monitoring, the parameter will either return to baseline (see Section 6.3) if it does not exceed the same benchmark threshold or, the parameter continues to exceed the benchmark threshold causing the facility to move to AIM Level 3.

### 6.3.3 AIM Level 3

When a third benchmark threshold exceedance occurs at an outfall, facility personnel will install structural source controls (e.g., permanent controls such as permanent cover, berms, and secondary containment), and/or treatment controls (e.g., sand filters, hydrodynamic separators, oil-water separators, retention ponds, and infiltration structures). The controls, treatment technologies, or treatment train installed will be appropriate for the pollutant that triggered AIM Level 3, will be sufficient to bring the exceedance below the benchmark threshold and, will be more rigorous that the SCMs implemented under AIM Level 2. These controls will be installed for the outfall that exceeded the benchmark threshold and SIDPs, unless monitoring of the SIDPs demonstrates AIM Level 3 requirements are not triggered at those discharge points.

A schedule for installing the structural source and/or treatment stormwater control measures will be identified and documented in the MSGP CAR database within 14 days. Control measures in response to AIM Level 3 will be installed within 60 days unless it is not feasible to install them within 60 days. In this case, up to 90 days can be taken provided justification identifying why it is infeasible to install the measure within 60 days is documented in the MSGP CAR database. EPA may grant an extension beyond 90 days, based on an appropriate demonstration by the operator.

An additional four quarters of benchmark monitoring will occur at the outfall where the parameter exceeded the benchmark threshold for AIM Level 3. This monitoring will begin no later than the next full quarter after all responses and deadlines required by AIM Level 3 have been completed. After four quarters of monitoring, the parameter will either return to baseline (see Section 6.3) if it does not exceed the same benchmark threshold or, the facility will remain in AIM Level 3 and EPA may require the facility to apply for an individual permit.

#### 6.3.4 AIM Exceptions

Any AIM Level exceedance may qualify for an exception from specific AIM requirements and continued benchmark monitoring after four quarters of monitoring, provided the requirements to demonstrate qualification of the exception are followed (see Parts 5.2.6.1 through 5.2.6.5 of the permit). These exceptions include the following for benchmark exceedances:

1) Solely attributable to natural background pollutant levels.

2) Due to run-on.

3) Due to an abnormal event.

4) Demonstrated to not result in an exceedance of facility-specific value using the national recommended water quality criteria in-lieu of the applicable MSGP benchmark threshold (for aluminum and copper benchmark parameters only); or

5) Demonstrated to not result in any exceedance of water quality standards.

**NOTE:** There are very specific and complicated documentation requirements and time frames that must be met to qualify for any of these exceptions. Therefore, any demonstration to qualify for an exception will be coordinated through a representative of the EPC-CP Storm Water Permitting/Compliance Team.

### 6.4 Corrective Action and AIM Documentation

Upon discovery, conditions requiring corrective action are documented by the DEP or EPC-CP on a Routine Facility Inspection Form and/or entered into the CAR database. The action will be kept open in the database until the issue has been resolved. Documentation of maintenance and repairs of SCMs are kept in Attachment 10 of this SWPPP. Where corrective actions result in changes to procedures or controls documented in this SWPPP, modifications to the SWPPP are made accordingly within 14 calendar days of completing the corrective action(s). LANL procedure EPC-CP-QP-2109, *MSGP Corrective Actions* can be found in Attachment 17.

Any AIM Level triggering event will conform to the requirements and time frames provided in Sections 6.3 and 6.3.1 through 6.3.4.

## 7.0 ACRONYMS

| | |
|---|---|
| AIM | Additional Implementation Measures |
| BMP | Best Management Practice |
| CAR | Corrective Action Report |
| CUI | Controlled Unclassified Information |
| CY | Calendar Year |
| DEP | Deployed Environmental Professional |
| DESH | Deployed Environmental Safety and Health |
| DOE | Department of Energy |
| EIS | Environmental Impact Statement |
| ELG | Effluent Limitation Guidelines |
| EM-RESP | Emergency Management Response |
| EOSC | Emergency Operations Support Center |
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs |
| EXID | Excavation Permit |
| FOD | Facility Operations Division |
| HE | High Explosive |
| IPaC | Information for Planning and Consultation |
| MRF | Material Recycling Facility |
| LANL or the Laboratory | Los Alamos National Laboratory |
| MSGP or Permit | Multi-Sector General Permit |
| NOI | Notice of Intent |
| NPDES | National Pollutant Discharge Elimination System |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PPT | Pollution Prevention Team |
| SCM | Stormwater Control Measure |
| SIDP | Substantially Identical Discharge Points |
| SSL | Soil Screening Level |
| SWPPP | Stormwater Pollution Prevention Plan |
| URL | Uniform Resource Locator |
| WFO | Weapons Facilities Operations |

# 8.0 SWPPP CERTIFICATION

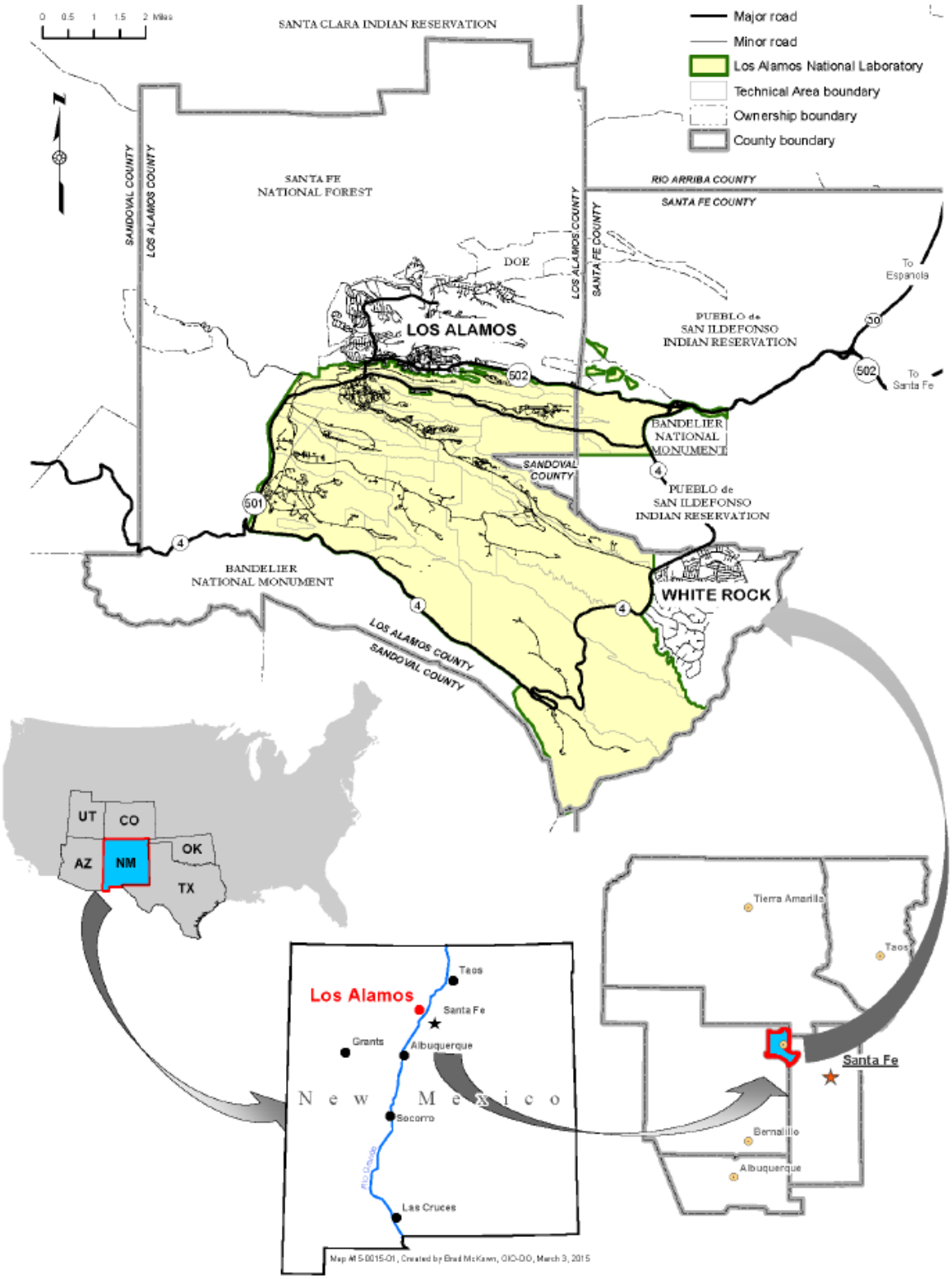
**STORMWATER POLLUTION PREVENTION PLAN**
**TA-16 Stockpile Area**
Los Alamos National Laboratory

**CERTIFICATION STATEMENT**

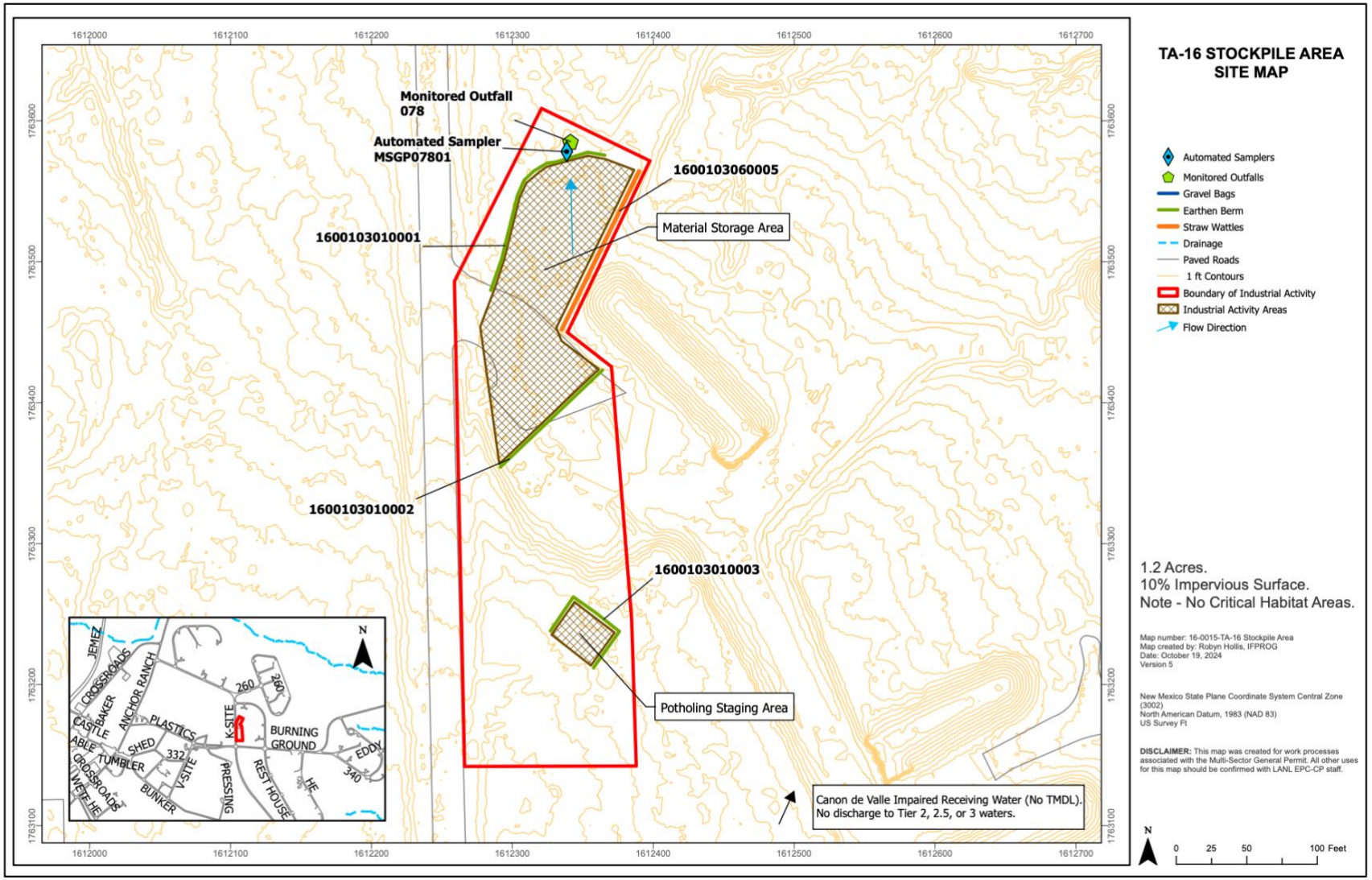
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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.

Signature 332752 Date 1/28/2026
Derek Clark
Operations Manager 6, WFO FOD
Weapons Facilities Operations

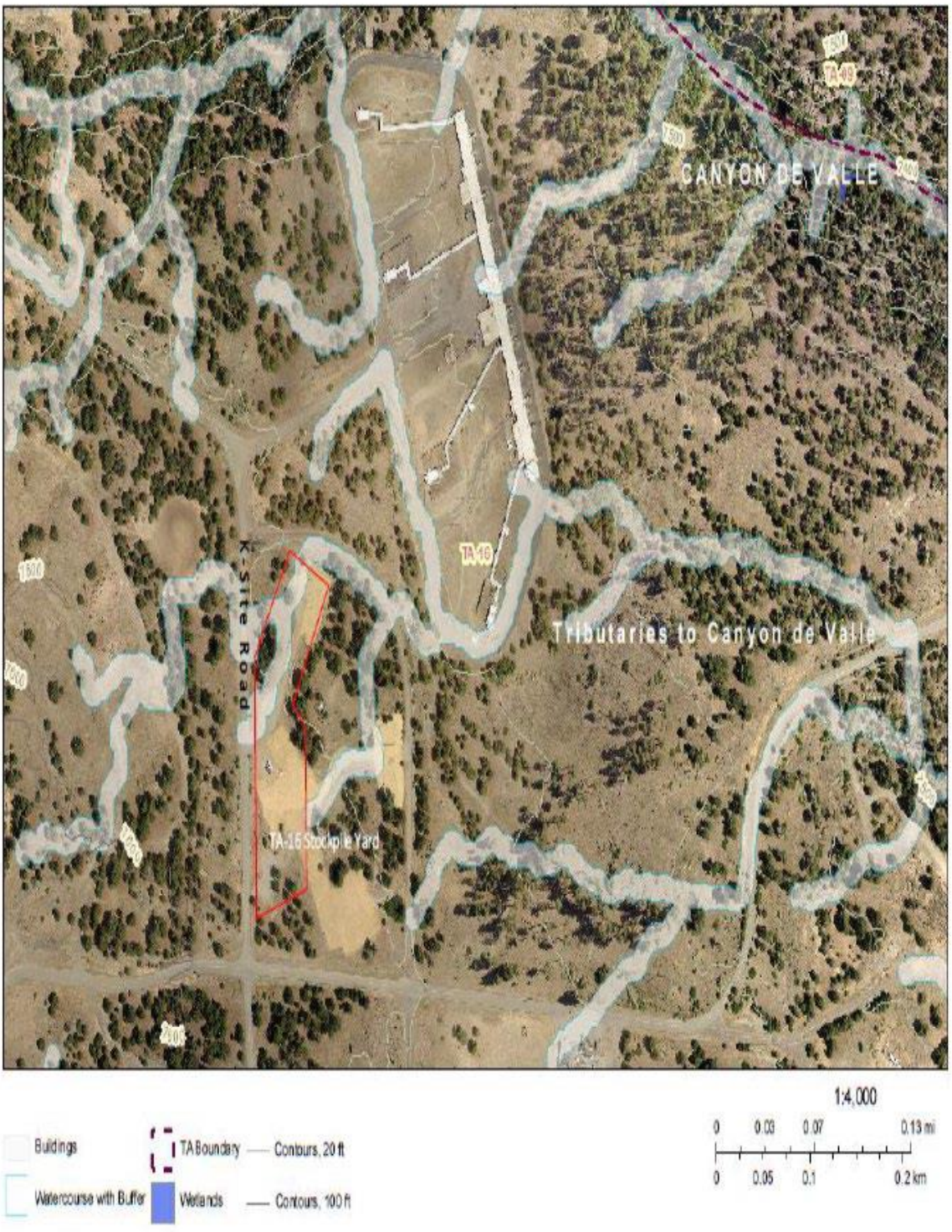
## Figure A: GENERAL LOCATION MAP



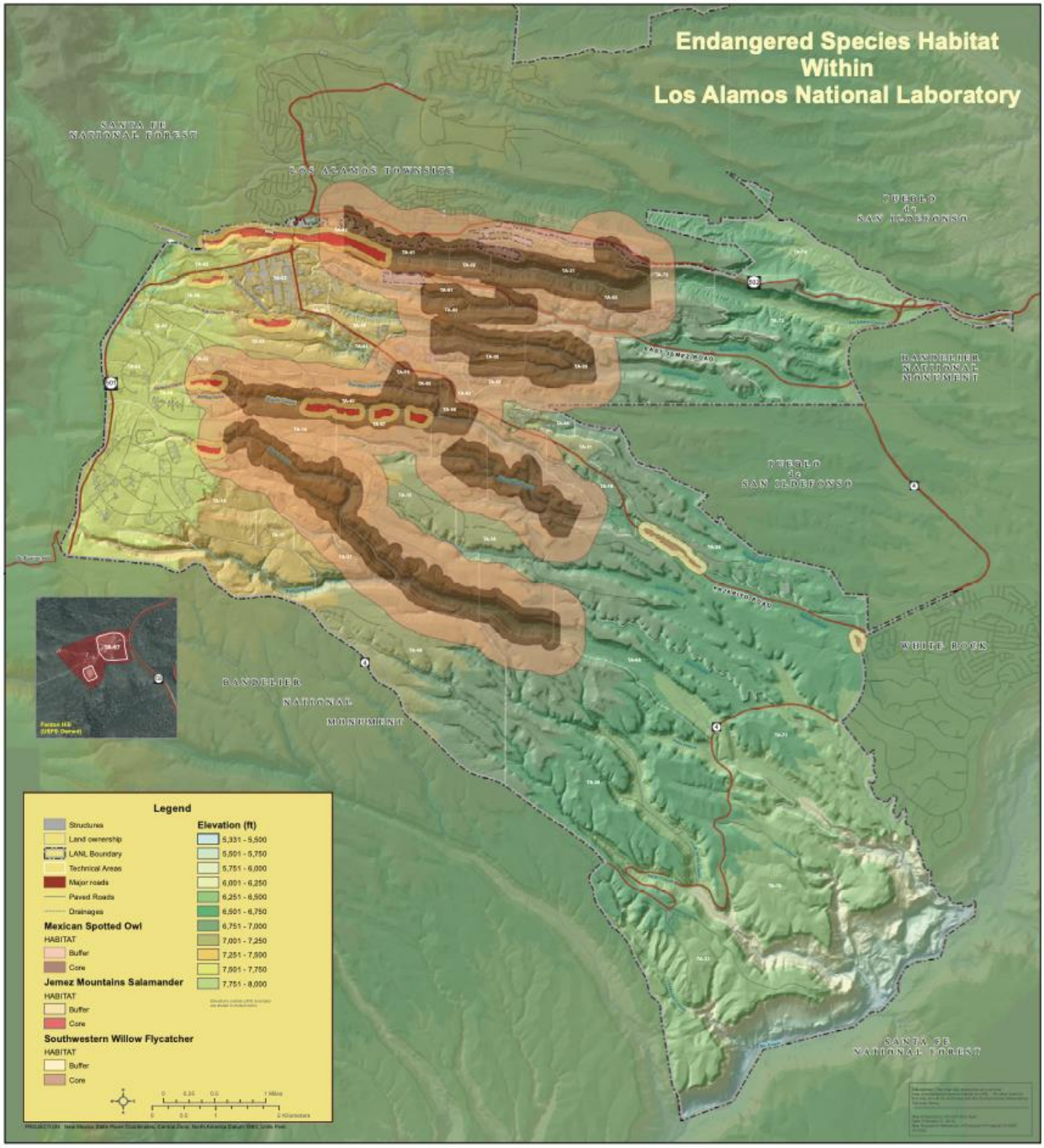
## FIGURE B-1: FACILITY SITE MAP



## FIGURE B-2: NEARBY RECEIVING WATERS



## FIGURE B-3: LANL ENDANGERED SPECIES MAP



# ATTACHMENT 1: NOTICE OF INTENT, SUPPORTING DOCUMENTAION, AND UPDATES

| NPDES FORM 3510-6 | | UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT | FORM Approved OMB No. 2040-0004 Expires on 07/31/2026 |
|---|---|---|---|

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations (40 CFR 122.28(b)(2)). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 3.7 to 4.1 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

## Permit Information

**Master Permit Number:** NMR050000

**NPDES ID:** NMR050013

Eligibility Information

**State/territory where your facility is discharging:** NM

**Does your facility discharge to federally recognized Indian Country lands?** No

**Are you a *"Federal Operator"* as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?**

Yes

**Which type of form would you like to submit?** Notice of Intent (NOI)

**By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.2.2. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.2.1. and 1.2.2. will be discharged, they must be covered under another NPDES permit.**

Yes

**Are you a new discharger or a new source as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?**

No

- **Have stormwater discharges from your facility been covered previously under an NPDES permit?** Yes
  - **If yes, provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP or the NPDES permit number if you had coverage under an EPA individual permit:**

    NMR050013
- **Are you discharging to any waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resource water)? (See Appendix L (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_l_-_list_of_tier_3_tier_2_and_tier_2.5_waters.pdf))**

  No

**Do you anticipate the discharge of groundwater or spring water from your facility?** No

**What is the legal name of the Operator as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?**

Triad National Security LLC

**What is the name of your facility or activity as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?**

LOS ALAMOS NATIONAL LABORATORY

## Operator Information

Operator Information

**Operator Name:** Triad National Security LLC

Operator Mailing Address

**Address Line 1:** PO Box 1663

**Address Line 2:** MS K490 **City:** Los Alamos

**ZIP/Postal Code:** 87545 **State:** NM

**County or Similar Division:** Los Alamos

Operator Point of Contact Information

**First Name** **Middle Initial** **Last Name:** TERRILL LEMKE

**Title:** Environmental Manager

**Phone:** 5056652397 **Ext.:**

**Email:** tlemke@lanl.gov

NOI Preparer Information

☑ **This NOI is being prepared by someone other than the certifier.**

**First Name** **Middle Initial** **Last Name:** Jacob Knight

**Organization:** Triad National Security LLC

**Phone:** 505-665-5880 **Ext.:**

**Email:** jknight@lanl.gov

## Facility Information

Facility Information

**Facility Name:** LOS ALAMOS NATIONAL LABORATORY

Facility Address

**Address Line 1:** PO BOX 1663

**Address Line 2:** MS K490 **City:** LOS ALAMOS

**ZIP/Postal Code:** 87545 **State:** NM

**County or Similar Division:** Los Alamos

Latitude/Longitude for the Facility

**Latitude/Longitude:** 35.872777°N, 106.321127°W

**Latitude/Longitude Data Source:** GIS **Horizontal Reference Datum:** WGS 84

General Facility Information

**What is the ownership type of the facility?** Federal Facility (U.S. Government)

**Estimated area of industrial activity at your facility exposed to stormwater (rounded to the nearest quarter acre):** 41

**Is your facility presently inactive and unstaffed?** No

Exception for Inactive and Unstaffed Facilities: The requirement for indicator monitoring, impaired waters monitoring, and/or benchmark monitoring does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater.

If circumstances change during the permit term that affect your qualifications for this exception to monitoring requirements (i.e. industrial materials or activities exposure to stormwater or your facility's active/inactive and staffed/unstaffed status) you must submit a NOI notifying EPA of the change in circumstances.

Sector-Specific Information

**Primary Sector:** P **Primary Subsector:** P1

**Primary SIC Code:** 4212

**Co-Located Sectors:**

**Co-Located Sector:** D **Co-Located Subsector:** D1 **Co-Located SIC Code:** 2951

**Co-Located Sector:** N **Co-Located Subsector:** N2 **Co-Located SIC Code:** 5093

**Co-Located Sector:** AA **Co-Located Subsector:** AA1 **Co-Located SIC Code:** 3499

**Co-Located Sector:** A **Co-Located Subsector:** A3 **Co-Located SIC Code:** 2411

**If you are a Sector A facility, do you manufacture, use, or store creosote or creosote-treated wood in areas that are exposed to precipitation?**

No

Discharge Information

**By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the stormwater discharges in Part 1.2.1 and the allowable non-stormwater discharges listed in Part 1.2.2. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the authorized stormwater and non-stormwater discharges listed in Parts 1.2.1 and 1.2.2 will be discharged, they must be covered under another NPDES permit.**

Yes

Other Discharge Information

**Do you anticipate the discharge of groundwater or spring water from your facility?** No

**Does your facility discharge into a Municipal Separate Sewer System (MS4)?** No

Receiving Waters Information

List all of the stormwater discharge points from your facility.

**Discharge Point 023: TA-60-1 Heavy Equipment Yard SIO to 022**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☑ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.873193°N, 106.313116°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➔ **Substantially Identical to Discharge Point ID:** 022

Receiving Water

| **GNIS Name:** | **Waterbody Name:** | **Listed Water ID:** |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** Yes

➔ **What is the hardness of your receiving water(s)?** 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| **Cause of Impairment Group** | **Pollutant** | **Units** | **Monitoring Required?** | **TMDL Completed?** |
|---|---|---|---|---|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 024: TA-60-1 Heavy Equipment Yard SIO to 022**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | **Sector** | **Subsector** | **SIC/Activity Code** |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☑ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.873046°N, 106.315069°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➔ **Substantially Identical to Discharge Point ID:** 022

Receiving Water

| GNIS Name: | Waterbody Name: | Listed Water ID: |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** Yes

➔ **What is the hardness of your receiving water(s)?** 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 032: TA-60 Roads and Grounds**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.870741°N, 106.306812°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

| GNIS Name: | Waterbody Name: | Listed Water ID: |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 034: TA-60 Roads and Grounds SIO to 032**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.870603°N, 106.306055°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➔ **Substantially Identical to Discharge Point ID:** 032

Receiving Water

| GNIS Name: | Waterbody Name: | Listed Water ID: |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 028: TA-60-2 Warehouse SIO to 026**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.872505°N, 106.313542°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➔ **Substantially Identical to Discharge Point ID:** 026

Receiving Water

| GNIS Name: | Waterbody Name: | Listed Water ID: |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 035: TA-60 Roads and Grounds SIO to 032**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.870474°N, 106.305432°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➔ **Substantially Identical to Discharge Point ID:** 032

Receiving Water

| **GNIS Name:** | **Waterbody Name:** | **Listed Water ID:** |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| **Cause of Impairment Group** | **Pollutant** | **Units** | **Monitoring Required?** | **TMDL Completed?** |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 043: TA-60 Asphalt Batch Plant**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | **Sector** | **Subsector** | **SIC/Activity Code** |
|---|---|---|---|
| ☑ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☐ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

| 40 CFR Part/Subpart | Eligible Discharges | Affected MSGP Sector | New Source Date | Applicability |
|---|---|---|---|---|
| Part 443, Subpart A | Runoff from asphalt emulsion facilities | D | 07/28/1975 | **Does your discharge point have any discharges subject to this effluent limitation guideline?** Yes |

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** Yes

**Latitude/Longitude:** 35.866084°N, 106.290165°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

| GNIS Name: | Waterbody Name: | Listed Water ID: |
|---|---|---|
| | MORTANDAD CANYON (WITHIN LANL) | NM-9000.A_042 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| MERCURY | Mercury, total [as Hg] | Milligrams per Liter | No | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | Yes | No |
| RADIATION | Alpha, gross adjusted | Picocuries per Liter | Yes | No |

**Discharge Point 031: TA-60 Roads and Grounds**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.869227°N, 106.305685°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

| **GNIS Name:** | **Waterbody Name:** | **Listed Water ID:** |
|---|---|---|
| | MORTANDAD CANYON (WITHIN LANL) | NM-9000.A_042 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| MERCURY | Mercury, total [as Hg] | Milligrams per Liter | No | No |

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | Yes | No |
| RADIATION | Alpha, gross adjusted | Picocuries per Liter | Yes | No |

**Discharge Point 033: TA-60 Roads and Grounds SIO to 032**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.870712°N, 106.306443°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➔ **Substantially Identical to Discharge Point ID:** 032

Receiving Water

| GNIS Name: | Waterbody Name: | Listed Water ID: |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 027: TA-60-2 Warehouse SIO to 026**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.872401°N, 106.313391°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➔ **Substantially Identical to Discharge Point ID:** 026

Receiving Water

**GNIS Name:**

**Waterbody Name:** SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

**Listed Water ID:** NM-9000.A_047

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 030: TA-60 Roads and Grounds SIO to 031**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.869325°N, 106.306926°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➔ **Substantially Identical to Discharge Point ID:** 031

Receiving Water

| GNIS Name: | Waterbody Name: | Listed Water ID: |
|---|---|---|
| | MORTANDAD CANYON (WITHIN LANL) | NM-9000.A_042 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| MERCURY | Mercury, total [as Hg] | Milligrams per Liter | No | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | Yes | No |
| RADIATION | Alpha, gross adjusted | Picocuries per Liter | Yes | No |

#### Discharge Point 029: TA-60 Metals Recycling Facility

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☑ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☐ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.873969°N, 106.313281°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

| **GNIS Name:** | **Waterbody Name:** | **Listed Water ID:** |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| **Cause of Impairment Group** | **Pollutant** | **Units** | **Monitoring Required?** | **TMDL Completed?** |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 075: TA-60-2 Warehouse**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | **Sector** | **Subsector** | **SIC/Activity Code** |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.871154°N, 106.31294°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

| **GNIS Name:** | **Waterbody Name:** | **Listed Water ID:** |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 021: TA-60-1 Heavy Equipment Yard SIO to 022**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☑ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.872514°N, 106.313562°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➔ **Substantially Identical to Discharge Point ID:** 022

Receiving Water

| GNIS Name: | Waterbody Name: | Listed Water ID: |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** Yes

➔ **What is the hardness of your receiving water(s)?** 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 042: TA-60 Roads and Grounds**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.867047°N, 106.289163°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

**GNIS Name:**

**Waterbody Name:** SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

**Listed Water ID:** NM-9000.A_047

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |

**Discharge Point 022: TA-60-1 Heavy Equipment Yard**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☑ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.872661°N, 106.313691°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

**GNIS Name:**

**Waterbody Name:** SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

**Listed Water ID:** NM-9000.A_047

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** Yes

➔ **What is the hardness of your receiving water(s)?** 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 025: TA-60-1 Heavy Equipment Yard SIO to 022**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☑ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.872928°N, 106.3154°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➜**Substantially Identical to Discharge Point ID:** 022

Receiving Water

| **GNIS Name:** | **Waterbody Name:** | **Listed Water ID:** |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** Yes

➜**What is the hardness of your receiving water(s)?** 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| **Cause of Impairment Group** | **Pollutant** | **Units** | **Monitoring Required?** | **TMDL Completed?** |
|---|---|---|---|---|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 026: TA-60-2 Warehouse**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | **Sector** | **Subsector** | **SIC/Activity Code** |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.872114°N, 106.313105°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

| GNIS Name: | Waterbody Name: | Listed Water ID: |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 037: TA-60 Roads and Grounds**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.867859°N, 106.292992°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

**GNIS Name:**

**Waterbody Name:** SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

**Listed Water ID:** NM-9000.A_047

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 076: TA-3-38 Metals Fab Shop**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.875851°N, 106.327924°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

**GNIS Name:**

**Waterbody Name:** SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

**Listed Water ID:** NM-9000.A_047

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** Yes

➔ **What is the hardness of your receiving water(s)?** 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 077: TA-3-38 Metals Fab Shop**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.869722°N, 106.300833°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

**GNIS Name:**

**Waterbody Name:** SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

**Listed Water ID:** NM-9000.A_047

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** Yes

➔ **What is the hardness of your receiving water(s)?** 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |

**Discharge Point 078: TA-16 Stockpile Yard**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.846944°N, 106.344722°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

**GNIS Name:**

**Waterbody Name:** CA&#65533;ON DE VALLE (BELOW LANL GAGE E256)

**Listed Water ID:** NM-128.A_01

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| RADIATION | Alpha, gross adjusted | Picocuries per Liter | Yes | No |

**Discharge Point 079: TA-9-214 Metals Fabrication Shop**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☑ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☐ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.85678°N, 106.345631°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

| **GNIS Name:** | **Waterbody Name:** | **Listed Water ID:** |
|---|---|---|
| | ARROYO DE LA DELFE (ABOVE KIELING SPRING TO HEADW) | NM-128.A_16 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** Yes

➔**What is the hardness of your receiving water(s)?** 28

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| **Cause of Impairment Group** | **Pollutant** | **Units** | **Monitoring Required?** | **TMDL Completed?** |
|---|---|---|---|---|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | Yes | No |
| RADIATION | Alpha, gross adjusted | Picocuries per Liter | Yes | No |

**Discharge Point 084: TA-60 Roads and Grounds**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | **Sector** | **Subsector** | **SIC/Activity Code** |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☑ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| ☐ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

There are no guidelines associated with the sector(s) selected in this discharge point.

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.867771°N, 106.291467°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

| GNIS Name: | Waterbody Name: | Listed Water ID: |
|---|---|---|
| | SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) | NM-9000.A_047 |

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | No | No |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |

**Discharge Point 085: TA-69 Wood Yard**

Applicable Sectors

**Select the Sectors/Subsector(s) that apply to this discharge point.**

| | Sector | Subsector | SIC/Activity Code |
|---|---|---|---|
| ☐ | **D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | **D1** - Asphalt Paving and Roofing Materials | 2951 |
| ☐ | **N** - SCRAP RECYCLING FACILITIES | **N2** - Source-separated Recycling Facility | 5093 |
| ☐ | **AA** - FABRICATED METAL PRODUCTS | **AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| ☑ | **A** - TIMBER PRODUCTS | **A3** - Log Storage and Handling | 2411 |
| ☐ | **P** - LAND TRANSPORTATION AND WAREHOUSING | **P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

Federal Effluent Limitation Guidelines:

**Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.**

| 40 CFR Part/Subpart | Eligible Discharges | Affected MSGP Sector | New Source Date | Applicability |
|---|---|---|---|---|
| Part 429, Subpart I | Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas | A | 01/26/1981 | **Does your discharge point have any discharges subject to this effluent limitation guideline?** No |

**Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?** No

**Latitude/Longitude:** 35.867612°N, 106.338173°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

**GNIS Name:** n/a

**Waterbody Name:** NM-128.A_15

**Listed Water ID:** n/a

**Is this receiving water saltwater or freshwater?** Freshwater

**Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?**

No

**Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?**

No

Benchmark Monitoring

**Are you subject to benchmark monitoring requirements for a hardness-dependent metal?** No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

**Is the receiving water listed as impaired on the 303(d) list?** Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---|---|---|---|---|
| RADIATION | Alpha, gross adjusted | Picocuries per Liter | Yes | No |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | Yes | No |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | Yes | No |

SWPPP Information

**Has the SWPPP been prepared in advance of filing this NOI, as required?** Yes

**SWPPP Contact Information:**

**First Name Middle Initial Last Name:** Jacob L Knight

**Phone:** 505-665-5880 **Ext.:**

**Email:** jknight@lanl.gov

**SWPPP Availability:**

Your current SWPPP or certain information from your SWPPP must be made available through one of the following three options. Select one of the options and provide the required information.

**Note: you are not required to post any confidential business information (CBI) or restricted information (as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.**

☐ **Option 1: Attach a current copy of your SWPPP to this NOI.**

☑ **Option 2: Maintain a Current Copy of your SWPPP on an Internet page (Universal Resource Locator or URL).**

**Provide the web address URL (e.g. http://www.example.com):** https://eprr.lanl.gov

☐ **Option 3: Provide the following information from your SWPPP:**

Endangered Species Protection Worksheet: Criterion D

**The following questions will help you determine your eligibility under Part 1.1.4 of the permit with respect to protection of Endangered Species Act (ESA) species and critical habitat(s). Please refer to Appendix E (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_e_-_procedures_relating_to_endangered_species_protection.pdf) of the 2021 MSGP for important information regarding your obligations under this permit concerning ESA-protected species and critical habitat(s).**

## Determine ESA Eligibility Criterion

**Are your industrial activities already addressed in another operator's valid certification of eligibility for your "action area" under eligibility criteria A, C, D, or E of the 2021 MSGP?**

No

**Has consultation between you, a Federal Agency, and the USFWS and/or the NMFS under section 7 of the Endangered Species Act (ESA) concluded?**

Consultations can be either formal or informal, and would have occurred only as a result of a separate federal action (e.g., during application for an individual wastewater discharge permit or the issuance of a wetlands dredge and fill permit), and the consultation must have addressed the effects of your industrial activity's discharges and discharge-related activities on ESA-listed species and/or critical habitat under the jurisdiction of USFWS and/or NMFS in your action area.

Yes

**The result of the consultation was either:**

i. A biological opinion and/or conference opinion that concludes that the action in question (taking into account the effects of your facility's discharges and discharge-related activities) is not likely to jeopardize the continued existence of ESA-listed species or result in the destruction or adverse modification of critical habitat. The biological opinion and/or conference opinion must have included the effects of your facility's discharges and discharge-related activities on all the listed species and critical habitat in your action area. To be eligible under (i), any reasonable and prudent measures specified in the incidental take statement must be implemented;

ii. Written concurrence (e.g., letter of concurrence) from the applicable Service(s) with a finding that your facility's discharges and discharge-related activities are not likely to adversely affect ESA-listed species or critical habitat. The concurrence letter must have included the effects of your facility's discharges and discharge-related activities on all the ESA-listed species and/or critical habitat on your species list(s) acquired from the USFWS and/or the NMFS as part of this worksheet.

True

➔ **The consultation does not warrant reinitiation under 50 CFR §402.16; or, if reinitiation of consultation is required (e.g., due to a new species listing or critical habitat designation; new information), you have reinitiated the consultation and the result of the consultation is consistent with the statements above.**

True

You are eligible under **Criterion D**

**Identify the federal action agency(ies) involved:**

☑ U.S. Fish and Wildlife Services

☐ National Marine Fisheries Service

**Provide the field office/regional office(s) providing that consultation and any tracking numbers of identifiers associated with that consultation (e.g., IPaC number, ECO number):**

```
New Mexico Ecological Services Field Office, Cons. # 2-22-98-I-336, Cons. # 2-22-95-I-108, Cons. # 02ENNM00-2014-I-0014, Cons. # 02ENNM00-2015-I-0
538, Cons. # 02ENNM00-2019-I-0985, Cons. #2-22-05-I-392, Cons. # 02ENNM00-2012-0089
```

**Provide the date the consultation was completed:** 08/06/2015

**You must attach copies of any letters or other communications with the USFWS or NMFS:**

| Name | Uploaded Date | Size |
|---|---|---|
| USFWS concurrence for Clean Fill BA.pdf (attachment/877170) | 05/02/2024 | 463.41 KB |
| Asphalt Batch Plant and Rock Crusher at Sigma Mesa USFWS Letter.pdf (attachment/877169) | 05/02/2024 | 841.95 KB |
| 20190418_concurrence_LANL asphalt plant replacement.pdf (attachment/877168) | 05/02/2024 | 176.27 KB |
| 1999 HMP Concurrence Letter USFWS to DOE.pdf (attachment/877164) | 05/19/2021 | 276.65 KB |
| 2015-0538_USFWS Concurrence Letter_8-2015.pdf (attachment/877163) | 05/19/2021 | 94.97 KB |
| Concurrence_8DEC2013_Biological Assessment of Jemez Mtn Salamander site Plan (2).pdf (attachment/877162) | 05/19/2021 | 239.87 KB |

Historic Preservation: Criterion B

**The following questions will help you determine your eligibility under Part 1.1.5 of the permit with respect to preservation of historic properties. You may still use the paper instructions in Appendix F (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_f_-_procedures_relating_to_historic_properties_preservation.pdf) of the MSGP in advance or in conjunction with answering the questions in this section of the form. For more information about your State Historic Preservation Office (SHPO) or Tribal Historic Preservation Office (THPO), please visit the National Park Service (NPS) websites at:**

- **State Historic Preservation Office (SHPO) (https://www.nps.gov/subjects/nationalregister/state-historic-preservation-offices.htm)**
- **Tribal Historic Preservation Office (THPO) (https://www.nps.gov/subjects/historicpreservationfund/tribal-historic-preservation-office-program.htm)**

**Are you an existing facility that is resubmitting for certification under the 2021 MSGP?** Yes

**If you are an existing facility you should have already addressed National Historic Preservation Act (NHPA) issues. To gain coverage under the 2015 MSGP, you were required to certify that you were either not affecting historic properties or had obtained written agreement from the relevant SHPO or THPO regarding methods of mitigating potential impacts.**

**Will you be constructing or installing any new stormwater control measures?** Yes

**Will the stormwater control measures you are constructing or installing disturb subsurface less than one (1) acre?**

Yes

**Have prior earth disturbances determined that historic properties do not exist, or have prior disturbances precluded the existence of historic properties?**

Yes

You are eligible under **Criterion B**.

## Additional Supporting Information

**Use this section to provide additional information you feel is pertinent to your coverage or to provide information in a Change NOI for a numeric effluent limitation exceedence as required in part 4.2.3.3. of the permit.**

**Do you have supporting information you would like to add?** Yes

### Enter Supporting Information

| Date | Additional Information Details |
|---|---|
| 05/05/2024 | In the Operator Information section of this Change NOI, the NOI Preparer is revised to Jacob Knight. |
| 05/05/2024 | In the Facility Information section of this Change NOI, the total estimated area of industrial activity is revised from 38.75 to 41 acres, and Co-located Sector A, Co-located Subsector A3 was added. |
| 05/05/2024 | In the Discharge Information section of this Change NOI, Discharge Point 085 was added. |
| 05/05/2024 | In the SWPPP Information section of this Change NOI, the SWPPP Contact is revised to Jacob Knight. |
| 05/02/2024 | The 2024-2026 State of New Mexico CWA 303(d)/305(b) Integrated Report was approved by the NM WQCC on March 14, 2024. In that report, Copper (dissolved) was delisted from NM-9000.A_047, Sandia Canyon (Sigma Canyon to NPDES Outfall 001). In the Discharge Information section of this Change NOI, Copper (dissolved) was changed to “Monitoring Not Required” for discharge points 022, 026, 029, 032, 037, 042, 075, 076, 077, and 084 and SIDPs 021, 023, 024, 025, 027, 028, 033, 034, 035. https://www.env.nm.gov/surface-water-quality/303d-305b/ |
| 09/20/2022 | In the Facility Information section of this Change NOI, the total estimated area of industrial activity is revised from 39.75 acres to 38.75 acres. |
| 09/20/2022 | The 2022-2024 State of New Mexico CWA 303(d)/305(b) Integrated Report was approved by EPA on April 26, 2022. In that report, the Assessment Unit description for NM-128.A_16 was changed from Arroyo de la Delfe (Pajarito Canyon to headwaters) to Arroyo de la Delfe (Above Kieling Spring to headwaters). In the Discharge Information section of this Change NOI, the Assessment Unit description was updated to reflect this change for discharge point 079. https://cloud.env.nm.gov/water/pages/view.php?ref=8234&k=c19431341b |
| 09/20/2022 | The 2022-2024 State of New Mexico CWA 303(d)/305(b) Integrated Report was approved by EPA on April 26, 2022. In that report, Mercury (total) was delisted from NM- 9000.A_042 - Mortandad Canyon (within LANL). In the Discharge Information section of this Change NOI, Mercury (total) was changed to "Monitoring Not Required" for discharge points 031 and 043, and SIDP 030. https://cloud.env.nm.gov/water/pages/view.php?ref=8234&k=c19431341b |
| 09/19/2022 | At Outfall 043, a single TSS result of 70.3 mg/L exceeded the ELG Daily Max limit of 23.0 mg/L and Monthly Avg limit of 15 mg/L. This exceedance is being reported on this Change NOI as required by Part 4.2.3.3. |

## Certification Information

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 gathered and evaluated 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 have no personal knowledge that

the information submitted is other than 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. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

**Certified By:** Jennifer payne

**Certifier Title:** Division Leader

**Certifier Email:** jpayne@lanl.gov

**Certified On:** 05/10/2024 12:40 PM ET

## ATTACHMENT 2: SWPPP AMENDMENTS

**SWPPP AMENDMENTS**

| Date | Plan Section | Reason for Amendment | Amendment |
|---|---|---|---|
| June 2019 | All | MSGP Plan for new industrial facility at TA-16 | New MSGP Plan for Triad, LLC regarding the TA-16 Stockile Area |
| May 2021 | All | The 2021 MSGP was published on January, 2021, and became effective on March 1, 2021. The new permit requires a SWPPP update. | Plan was revised to reflect new permit requirements. |
| December 2021 | 2.2, 2.5 and 4.5 | Annual Review | Updated the spill table and history, in addition to employee training. |
| January 2023 | All | Annual Review | All |
| December 2023 | All | Annual Review | Updated site boundary map, acreage, and pollution prevention team members. |
| January 2024 | All | Annual Review | Updated area map, pollution prevention team members, spills table, and attachments. |
| January 2025 | All | Annual Review | Updated area map, pollution prevention team members, spills table, and attachments. |
| January 2026 | All | Annual Review | Updated pollution prevention team members, spills table, figures, and attachments. |

## ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES

## Unauthorized Non-Storm Water Discharge Assessment and Certification

| Facility: | TA-09-0214 Metal Fabrication Shop | | |
|---|---|---|---|
| **Outfalls (including SIOs*) or Other Onsite Drainage Points Observed During the Assessment** | **Identified Potential Sources of Unauthorized Non-Storm Water Discharge (if applicable)** | **Description of Assessment Criterion Used** | **Describe any Required Actions to Control or Eliminate the Discharge** |
| 079 | None | Visual evaluation | None |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Assessor:**

| Print Name: | Signature: | Title: | Date Assessed: |
|---|---|---|---|
| Kellkenny Bilcen | | WFO-DEP | 01/23/25 |

**Authorized Signatory:** 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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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.

| Print Name: | Signature: | Title: | Date Certified: |
|---|---|---|---|
| Derek Clark | | WFO-FOD | 01/23/25 |

*SIO = Substantially Identical Outfall

## ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM

Los Alamos NATIONAL LABORATORY

**Environmental Protection & Compliance Division**
**Compliance Programs Group**

Los Alamos National Laboratory
PO Box 1663, M969
Los Alamos, NM 87545
505-667-5466

**Symbol:** EPC-DO: 22-139
**LAUR:** 22-24721
**Locates:** N/A
**Date:** 08/11/2022

Dr. Earthea Nance, Regional Administrator
U.S. Environmental Protection Agency, Region 6
1201 Elm Street, Suite 500
Dallas, Texas, 75270

**Subject: Notification of Triad National Security, LLC (Triad), Signatory Officials and Authorized Representatives for National Pollutant Discharge Elimination System (NPDES) Permits**

Dear Dr. Nance:

The purpose of this letter is to provide an update to the U.S. Environmental Protection Agency (EPA) Region 6 for the Triad National Security, LLC (Triad) delegation of authority for signature on documents associated with the various Los Alamos National Laboratory (LANL) National Pollutant Discharge Elimination System (NPDES) Permits, pursuant to Title 40 of the Code of Federal Regulations (40 CFR) §122.22(c). This letter supersedes and replaces the signatory authority letter dated December 11, 2018 (EPC-DO: 18-453).

The positions of Associate Laboratory Director of Environment, Safety, Health, Quality, Safeguards, and Security (ESHQSS), and Division Leader of the Environmental Protection and Compliance Division (EPC-DO) are identified as Triad's primary signatory officials under 40 CFR §122.22(a) for certifying and signing permit applications [including Notices of Intent (NOIs)] required under the LANL NPDES Industrial Point Source Outfall Permit (Permit No. NM0028355), the NPDES Construction General Permit (CGP) for Stormwater Discharges from Construction Activities, the NPDES Multi-Sector General Permit (MSGP) (Permit No. NMR050013) for Stormwater Discharges Associated with Industrial Activity and the NPDES Pesticide General Permit (Permit No. NMG870002) for Discharges from the Application of Pesticides.

The following positions are hereby designated as authorized representatives under 40 CFR §122.22(b) to sign reports, Stormwater Pollution Prevention Plans, Discharge Monitoring Reports, Pesticide Discharge Management Plans, and any other compliance documentation required by the permits:

**NPDES Industrial Point Source Outfall Permit (No. NM0028355)**

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Compliance Programs Group.
- Responsible Facility Operations Director (FOD).

**NPDES CGP:**

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Compliance Programs Group.
- Cognizant Project Manager, Construction Manager, or Subcontractor Technical Representative for the regulated construction activity.

**NPDES MSGP (No. NMR050013)**

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Compliance Programs Group.
- Division Leader, Deputy Division Leader, or Group Leader of the Triad division responsible for the overall operation of the regulated facility or activity.
- Responsible FOD, Deputy FOD, or Operations Manager responsible for the overall operation of the regulated facility or activity.

**NPDES Pesticide General Permit (No. NMG870002)**

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Compliance Programs Group.

If you have questions, please contact me at (505) 667-7912, (505) 500-2273 or at jpayne@lanl.gov.

Sincerely,

JENNIFER PAYNE (Affiliate)
Digitally signed by JENNIFER PAYNE (Affiliate)
Date: 2022.08.11 13:10:40 -06'00'

Jennifer E. Payne
Division Leader
Environmental Protection and Compliance

Attachment(s): None

Copy: Nasim Jahan, USEPA, Region 6, jahan.nasim@epa.gov
Suzanna Perea, USEPA, Region 6, perea.suzanna@epa.gov
Susan Lucas Kamat, NMED, susan.lucaskamat@state.nm.us
Karen E. Armijo, NA-LA, karen.armijo@nnsa.doe.gov
Marcus Pinzel, NA-LA, marcus.pinzel@nnsa.doe.gov
William R. Mairson, Triad, ALDESHQSS, wrmairson@lanl.gov
Jeannette T. Hyatt, Triad, EWP, jhyatt@lanl.gov
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emla.docs@em.doe.gov
epc-correspondence@lanl.gov
eshqss-dcrm@lanl.gov
gc-esh@lanl.gov

## ATTACHMENT 5: DISCHARGE MONITORING REPORTS

# DMR Copy of Record

***Permit***

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-IW**<br>Impaired Water | | |

***Report Dates & Status***

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 07/01/21 to 06/30/22** | **DMR Due Date:** | **08/31/22** | **Status:** | **NetDMR Validated** |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Title:** | **Telephone:** |
| **Last Name:** | | | |

***No Data Indicator (NODI)***

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| | | | | | Sample | | | | | | | | | | | | | | | |
| 51931 | **Alpha, gross adjusted** | 1 - Effluent Gross | 0 | -- | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 17 - pCi/L | | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-22-28978

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2022-08-30 06:00 (Time Zone: -05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-08-31 13:42 (Time Zone: -05:00) |

# DMR Copy of Record

***Permit***

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

***Report Dates & Status***

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 07/01/21 to 09/30/21** | **DMR Due Date:** | **11/30/21** | **Status:** | **NetDMR Validated** |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | **Title:** | **Telephone:** | |
| **Last Name:** | | | |

***No Data Indicator (NODI)***

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | C - No Discharge | | | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-21-30667

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2021-10-27 08:50 (Time Zone: -05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2021-10-27 10:04 (Time Zone: -05:00) |

## DMR Copy of Record

***Permit***

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

***Report Dates & Status***

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 10/01/21 to 12/31/21** | **DMR Due Date:** | **02/28/22** | **Status:** | **NetDMR Validated** |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Title:** | **Telephone:** |
| **Last Name:** | | | |

***No Data Indicator (NODI)***

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | C - No Discharge | | | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-22-20563

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2022-01-24 16:40 (Time Zone: -06:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-01-26 13:16 (Time Zone: -06:00) |

# DMR Copy of Record

***Permit***

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

***Report Dates & Status***

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 01/01/22 to 03/31/22** | **DMR Due Date:** | **05/31/22** | **Status:** | **NetDMR Validated** |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Title:** | **Telephone:** |
| **Last Name:** | | | |

***No Data Indicator (NODI)***

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | C - No Discharge | | | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-22-23400

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2022-04-21 12:20 (Time Zone: -05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-04-21 13:41 (Time Zone: -05:00) |

# DMR Copy of Record

***Permit***

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

***Report Dates & Status***

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 04/01/22 to 06/30/22** | **DMR Due Date:** | **08/31/22** | **Status:** | **NetDMR Validated** |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Title:** | **Telephone:** |
| **Last Name:** | | | |

***No Data Indicator (NODI)***

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | C - No Discharge | | | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-22-28975

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2022-08-30 06:00 (Time Zone: -05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-08-31 13:42 (Time Zone: -05:00) |

# DMR Copy of Record

***Permit***

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-IW**<br>Impaired Water | | |

***Report Dates & Status***

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 07/01/22 to 06/30/23** | **DMR Due Date:** | **08/31/23** | **Status:** | **NetDMR Validated** |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | | | |
|---|---|---|---|---|---|
| **First Name:** | | **Title:** | | **Telephone:** | |
| **Last Name:** | | | | | |

***No Data Indicator (NODI)***

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 51931 | **Alpha, gross adjusted** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 430.0 | 17 - pCi/L | 0 | 01/YR - Annual | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 17 - pCi/L | | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-23-29225

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2023-08-10 16:50 (Time Zone: -05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2023-08-15 18:24 (Time Zone: -05:00) |

# DMR Copy of Record

***Permit***

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

***Report Dates & Status***

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 07/01/22 to 09/30/22** | **DMR Due Date:** | **11/30/22** | **Status:** | **NetDMR Validated** |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | **Title:** | **Telephone:** | |
| **Last Name:** | | | |

***No Data Indicator (NODI)***

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | 8.14 | | | | 8.14 | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 565.0 | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 111.0 | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-22-32029

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2022-11-15 16:10 (Time Zone: -06:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-11-17 15:36 (Time Zone: -06:00) |

# DMR Copy of Record

***Permit***

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

***Report Dates & Status***

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 10/01/22 to 12/31/22** | **DMR Due Date:** | **02/28/23** | **Status:** | **NetDMR Validated** |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Title:** | **Telephone:** |
| **Last Name:** | | | |

***No Data Indicator (NODI)***

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | C - No Discharge | | | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-23-21357

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2023-02-10 08:40 (Time Zone: -06:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2023-02-16 18:06 (Time Zone: -06:00) |

# DMR Copy of Record

***Permit***

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

***Report Dates & Status***

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 01/01/23 to 03/31/23** | **DMR Due Date:** | **05/31/23** | **Status:** | **NetDMR Validated** |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Title:** | **Telephone:** |
| **Last Name:** | | | |

***No Data Indicator (NODI)***

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | C - No Discharge | | | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-23-24654

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2023-05-02 11:00 (Time Zone: -05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2023-05-03 13:42 (Time Zone: -05:00) |

# DMR Copy of Record

***Permit***

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

***Report Dates & Status***

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 04/01/23 to 06/30/23** | **DMR Due Date:** | **08/31/23** | **Status:** | **NetDMR Validated** |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Title:** | **Telephone:** |
| **Last Name:** | | | |

***No Data Indicator (NODI)***

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | C - No Discharge | | | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-23-29228

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2023-08-10 17:10 (Time Zone: -05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2023-08-15 18:24 (Time Zone: -05:00) |

***Permit***

| | | | |
|---|---|---|---|
| **Permit ID:** | NMR050013 | **Major:** | ☐ |
| **Permittee:** | Triad National Security LLC | **Permittee Address:** | PO Box 1663<br>Los Alamos , NM07545 |
| **Facility:** | LOS ALAMOS NATIONAL LABORATORY | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS , NM87545 |
| **Permitted Feature:** | 078 - External Outfall | **Discharge:** | 078-P1 - Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) |

***Report Dates & Status***

| | | | |
|---|---|---|---|
| **Monitoring Period:** | From 07/01/23 to 09/30/23 | **DMR Due Date:** | 11/30/23 |
| **Status:** | **NetDMR Validated** | | |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Last Name:** | |
| **Title:** | | **Telephone:** | |

***No Data Indicator (NODI)***

**Form NODI:** -

| Parameter | | NODI | Quantity or Loading | | | Quality or Concentration | | | | # of Ex. | Freq. of Analysis | Smpl. Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | Value 1 | Value 2 | Units | Value 1 | Value 2 | Value 3 | Units | | | |
| 00400 | **pH** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | Req Mon MINIMUM | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | C - No Discharge | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-23-31714

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2023-10-16 11:50 (Time Zone:-05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2023-10-23 14:42 (Time Zone:-05:00) |

*Permit*

| | | | |
|---|---|---|---|
| **Permit ID:** | NMR050013 | **Major:** | ☐ |
| **Permittee:** | Triad National Security LLC | **Permittee Address:** | PO Box 1663<br>Los Alamos , NM87545 |
| **Facility:** | LOS ALAMOS NATIONAL LABORATORY | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS , NM87545 |
| **Permitted Feature:** | 078 - External Outfall | **Discharge:** | 078-P1 - Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) |

*Report Dates & Status*

| | | | |
|---|---|---|---|
| **Monitoring Period:** | From 10/01/23 to 12/31/23 | **DMR Due Date:** | 02/29/24 |
| **Status:** | **NetDMR Validated** | | |

*Considerations for Form Completion*

*Principal Executive Officer*

| | | | |
|---|---|---|---|
| **First Name:** | | **Last Name:** | |
| **Title:** | | **Telephone:** | |

*No Data Indicator (NODI)*

**Form NODI:** -

| Parameter | | NODI | Quantity or Loading | | | Quality or Concentration | | | | # of Ex. | Freq. of Analysis | Smpl. Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | Value 1 | Value 2 | Units | Value 1 | Value 2 | Value 3 | Units | | | |
| 00400 | **pH** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | Req Mon MINIMUM | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | C - No Discharge | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | | | C - No Discharge | | | | |

*Submission Note*

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

*Edit Check Errors*

*No errors.*

*Comments*

LA-UR-24-20679

*Attachments*

*No attachments.*

*Report Last Saved By*

*Triad National Security LLC*

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2024-01-25 11:20 (Time Zone:-06:00) |

*Report Last Signed By*

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2024-01-31 15:52 (Time Zone:-06:00) |

***Permit***

| | | | |
|---|---|---|---|
| **Permit ID:** | NMR050013 | **Major:** | ☐ |
| **Permittee:** | Triad National Security LLC | **Permittee Address:** | PO Box 1663<br>Los Alamos , NM87545 |
| **Facility:** | LOS ALAMOS NATIONAL LABORATORY | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS , NM87545 |
| **Permitted Feature:** | 078 - External Outfall | **Discharge:** | 078-IW - Impaired Water |

***Report Dates & Status***

| | | | |
|---|---|---|---|
| **Monitoring Period:** | From 07/01/23 to 06/30/24 | **DMR Due Date:** | 08/31/24 |
| **Status:** | **NetDMR Validated** | | |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Last Name:** | |
| **Title:** | | **Telephone:** | |

***No Data Indicator (NODI)***

**Form NODI:** -

| Parameter | | NODI | Quantity or Loading | | | Quality or Concentration | | | | # of Ex. | Freq. of Analysis | Smpl. Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | Value 1 | Value 2 | Units | Value 1 | Value 2 | Value 3 | Units | | | |
| 51931 | **Alpha, gross adjusted** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 17 - pCi/L | | 01/YR - Annual | GR - GRAB |
| NODI: - | | NODI | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-24-27945

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2024-07-28 12:20 (Time Zone:-05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2024-07-30 16:52 (Time Zone:-05:00) |

***Permit***

| | | | |
|---|---|---|---|
| **Permit ID:** | NMR050013 | **Major:** | ☐ |
| **Permittee:** | Triad National Security LLC | **Permittee Address:** | PO Box 1663<br>Los Alamos , NM87545 |
| **Facility:** | LOS ALAMOS NATIONAL LABORATORY | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS , NM87545 |
| **Permitted Feature:** | 078 - External Outfall | **Discharge:** | 078-P1 - Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) |

***Report Dates & Status***

| | | | |
|---|---|---|---|
| **Monitoring Period:** | From 01/01/24 to 03/31/24 | **DMR Due Date:** | 05/31/24 |
| **Status:** | **NetDMR Validated** | | |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Last Name:** | |
| **Title:** | | **Telephone:** | |

***No Data Indicator (NODI)***

**Form NODI:** -

| Parameter | | NODI | Quantity or Loading | | | Quality or Concentration | | | | # of Ex. | Freq. of Analysis | Smpl. Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | Value 1 | Value 2 | Units | Value 1 | Value 2 | Value 3 | Units | | | |
| 00400 | **pH** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | Req Mon MINIMUM | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | C - No Discharge | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-24-23828

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2024-04-23 15:40 (Time Zone:-05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2024-05-01 19:11 (Time Zone:-05:00) |

***Permit***

| | | | |
|---|---|---|---|
| **Permit ID:** | NMR050013 | **Major:** | ☐ |
| **Permittee:** | Triad National Security LLC | **Permittee Address:** | PO Box 1663<br>Los Alamos , NM87545 |
| **Facility:** | LOS ALAMOS NATIONAL LABORATORY | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS , NM87545 |
| **Permitted Feature:** | 078 - External Outfall | **Discharge:** | 078-P1 - Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) |

***Report Dates & Status***

| | | | |
|---|---|---|---|
| **Monitoring Period:** | From 04/01/24 to 06/30/24 | **DMR Due Date:** | 08/31/24 |
| **Status:** | **NetDMR Validated** | | |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Last Name:** | |
| **Title:** | | **Telephone:** | |

***No Data Indicator (NODI)***

**Form NODI:** -

| Parameter | | NODI | Quantity or Loading | | | Quality or Concentration | | | | # of Ex. | Freq. of Analysis | Smpl. Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | Value 1 | Value 2 | Units | Value 1 | Value 2 | Value 3 | Units | | | |
| 00400 | **pH** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | Req Mon MINIMUM | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | C - No Discharge | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-24-27945

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2024-07-28 12:20 (Time Zone:-05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2024-07-30 16:52 (Time Zone:-05:00) |

***Permit***

| | | | |
|---|---|---|---|
| **Permit ID:** | NMR050013 | **Major:** | ☐ |
| **Permittee:** | Triad National Security LLC | **Permittee Address:** | PO Box 1663<br>Los Alamos , NM87545 |
| **Facility:** | LOS ALAMOS NATIONAL LABORATORY | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS , NM87545 |
| **Permitted Feature:** | 078 - External Outfall | **Discharge:** | 078-P1 - Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) |

***Report Dates & Status***

| | | | |
|---|---|---|---|
| **Monitoring Period:** | From 07/01/24 to 09/30/24 | **DMR Due Date:** | 11/30/24 |
| **Status:** | **NetDMR Validated** | | |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Last Name:** | |
| **Title:** | | **Telephone:** | |

***No Data Indicator (NODI)***

**Form NODI:** -

| Parameter | | NODI | Quantity or Loading | | | Quality or Concentration | | | | # of Ex. | Freq. of Analysis | Smpl. Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | Value 1 | Value 2 | Units | Value 1 | Value 2 | Value 3 | Units | | | |
| 00400 | **pH** | Smpl. | | | | 8.27 | | 8.27 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | Req Mon MINIMUM | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | | | | | | | |
| 00530 | **Solids, total suspended** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | | | F - Insufficient Flow for Sampling | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | Smpl. | | | | | | 16.0 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| NODI: - | | NODI | | | | | | | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-24-31472

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2024-10-25 09:00 (Time Zone:-05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2024-10-30 13:40 (Time Zone:-05:00) |

***Permit***

| | | | |
|---|---|---|---|
| **Permit ID:** | NMR050013 | **Major:** | ☐ |
| **Permittee:** | Triad National Security LLC | **Permittee Address:** | PO Box 1663<br>Los Alamos , NM87545 |
| **Facility:** | LOS ALAMOS NATIONAL LABORATORY | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS , NM87545 |
| **Permitted Feature:** | 078 - External Outfall | **Discharge:** | 078-P1 - Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) |

***Report Dates & Status***

| | | | |
|---|---|---|---|
| **Monitoring Period:** | From 10/01/24 to 12/31/24 | **DMR Due Date:** | 02/28/25 |
| **Status:** | **NetDMR Validated** | | |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | | |
|---|---|---|---|
| **First Name:** | | **Last Name:** | |
| **Title:** | | **Telephone:** | |

***No Data Indicator (NODI)***

**Form NODI:** -

| Parameter | | NODI | Quantity or Loading | | | Quality or Concentration | | | | # of Ex. | Freq. of Analysis | Smpl. Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | Value 1 | Value 2 | Units | Value 1 | Value 2 | Value 3 | Units | | | |
| 00400 | **pH** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | Req Mon MINIMUM | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - Grab |
| NODI: - | | NODI | | | | C - No Discharge | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - Grab |
| NODI: - | | NODI | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | Smpl. | | | | | | | | | | |
| 1 - Effluent Gross | | | | | | | | | | | | |
| Season: 0 | | Req. | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - Grab |
| NODI: - | | NODI | | | | | | C - No Discharge | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-25-20016

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2025-01-27 14:00 (Time Zone:-06:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2025-01-27 14:43 (Time Zone:-06:00) |

## DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

***Permit***

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-IW**<br>Impaired Water | | |

***Report Dates & Status***

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 07/01/24 to 06/30/25** | **DMR Due Date:** | **08/31/25** | **Status:** | **NetDMR Validated** |

***Considerations for Form Completion***

***Principal Executive Officer***

| | | |
|---|---|---|
| **First Name:** | **Title:** | **Telephone:** |
| **Last Name:** | | |

***No Data Indicator (NODI)***

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 51931 | **Alpha, gross adjusted** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 16.0 | 17 - pCi/L | 0 | 01/YR - Annual | GR - Grab |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 17 - pCi/L | | 01/YR - Annual | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

***Submission Note***

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

***Edit Check Errors***

*No errors.*

***Comments***

LA-UR-25-27680

***Attachments***

*No attachments.*

***Report Last Saved By***

***Triad National Security LLC***

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2025-07-30 15:50 (Time Zone: -05:00) |

***Report Last Signed By***

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2025-07-31 15:06 (Time Zone: -05:00) |

## DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

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### *Permit*

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

### *Report Dates & Status*

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 01/01/25 to 03/31/25** | **DMR Due Date:** | **05/31/25** | **Status:** | **NetDMR Validated** |

### *Considerations for Form Completion*

### *Principal Executive Officer*

| | | | |
|---|---|---|---|
| **First Name:** | | **Title:** | **Telephone:** |
| **Last Name:** | | | |

### *No Data Indicator (NODI)*

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | C - No Discharge | | | | C - No Discharge | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | | |

### *Submission Note*

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

### *Edit Check Errors*

*No errors.*

### *Comments*

LA-UR-25-23784

### *Attachments*

*No attachments.*

### *Report Last Saved By*

### *Triad National Security LLC*

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2025-04-21 09:40 (Time Zone: -05:00) |

### *Report Last Signed By*

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |

## DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

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### *Permit*

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

### *Report Dates & Status*

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 04/01/25 to 06/30/25** | **DMR Due Date:** | **08/31/25** | **Status:** | **NetDMR Validated** |

### *Considerations for Form Completion*

### *Principal Executive Officer*

| | | | |
|---|---|---|---|
| **First Name:** | **Title:** | **Telephone:** | |
| **Last Name:** | | | |

### *No Data Indicator (NODI)*

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | = | 7.06 | | | = | 7.06 | 12 - SU | | 01/90 - Quarterly | GR - Grab |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | 0 | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | = | 14.6 | 19 - mg/L | | 01/90 - Quarterly | GR - Grab |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | 0 | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | B - Below Detection Limit/No Detection | | | | |

### *Submission Note*

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

### *Edit Check Errors*

*No errors.*

### *Comments*

LA-UR-25-27680

### *Attachments*

*No attachments.*

### *Report Last Saved By*

### *Triad National Security LLC*

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2025-07-30 16:03 (Time Zone: -05:00) |

### *Report Last Signed By*

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |

## DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

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### *Permit*

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

### *Report Dates & Status*

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 07/01/25 to 09/30/25** | **DMR Due Date:** | **11/30/25** | **Status:** | **NetDMR Validated** |

### *Considerations for Form Completion*

### *Principal Executive Officer*

| | | | |
|---|---|---|---|
| **First Name:** | | **Title:** | **Telephone:** |
| **Last Name:** | | | |

### *No Data Indicator (NODI)*

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | 6.95 | | | | 6.95 | 12 - SU | 0 | 01/90 - Quarterly | GR - Grab |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 17.0 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - Grab |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 12.9 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - Grab |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

### *Submission Note*

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

### *Edit Check Errors*

*No errors.*

### *Comments*

LA-UR-25-30302

### *Attachments*

*No attachments.*

### *Report Last Saved By*

### *Triad National Security LLC*

| | |
|---|---|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2025-10-21 10:50 (Time Zone: -05:00) |

### *Report Last Signed By*

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |

## DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

### *Permit*

| | | | | | |
|---|---|---|---|---|---|
| **Permit #:** | **NMR050013** | **Permittee:** | Triad National Security LLC | **Facility:** | LOS ALAMOS NATIONAL LABORATORY |
| **Major:** | No | **Permittee Address:** | PO Box 1663<br>Los Alamos, NM 87545 | **Facility Location:** | PO BOX 1663<br>LOS ALAMOS, NM 87545 |
| **Permitted Feature:** | 078<br>External Outfall | **Discharge:** | **078-P1**<br>Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

### *Report Dates & Status*

| | | | | | |
|---|---|---|---|---|---|
| **Monitoring Period:** | **From 10/01/25 to 12/31/25** | **DMR Due Date:** | **02/28/26** | **Status:** | **NetDMR Validated** |

### *Considerations for Form Completion*

### *Principal Executive Officer*

| | | | |
|---|---|---|---|
| **First Name:** | | **Title:** | **Telephone:** |
| **Last Name:** | | | |

### *No Data Indicator (NODI)*

**Form NODI:** --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | 7.9 | | | | 7.9 | 12 - SU | 0 | 01/90 - Quarterly | GR - Grab |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 18.4 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - Grab |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | **Chemical Oxygen Demand [COD]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 16.3 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - Grab |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - Grab |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

### *Submission Note*

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

### *Edit Check Errors*

*No errors.*

### *Comments*

LA-UR-26-20288

### *Attachments*

*No attachments.*

### *Report Last Saved By*

### *Triad National Security LLC*

| | |
|---|---|
| User: | KIRIDELATORRE |
| Name: | Kiri De La Torre |
| E-Mail: | kiri@lanl.gov |
| Date/Time: | 2026-01-20 16:40 (Time Zone: -06:00) |

### *Report Last Signed By*

| | |
|---|---|
| User: | TERRILLLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |

## ATTACHMENT 6: ANNUAL REPORTS

| NPDES FORM 6100-28 | EPA | UNITED STATES ENVIRONMENTAL PROTECTION AGENCY<br>WASHINGTON, DC 20460<br>ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT | FORM Approved OMB No. 2040-0300 |
|---|---|---|---|

## Permit Information

**Report Year:** 2021

**Reporting Period:** 1/1/2021 to 12/31/2021

**NPDES ID:** NMR050013

## Facility Information

**Facility Name:** LOS ALAMOS NATIONAL LABORATORY

### Facility Point of Contact

**First Name** **Middle Initial** **Last Name:** Terrill Lemke

**Phone:** 505-665-2397 **Ext.:**

**Email:** tlemke@lanl.gov

### Facility Mailing Address

**Address Line 1:** PO BOX 1663

**Address Line 2:** MS K490

**City:** LOS ALAMOS

**ZIP/Postal Code:** 87545

**State:** NM

**County or Similar Division:** Los Alamos

## General Findings

**Provide a summary of your past year's routine facility inspection documentation, including dates (see Part 3.1.6 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.9 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2021." (Note: Operators of airport facilities that are complying with Part 8.S.9 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)**

Los Alamos National Laboratory (LANL), operated by Triad National Security, LLC (Triad), consists of 8 active industrial sites that operate under 4 different Sectors (D, N, P, and AA). Permit coverage became effective on June 25, 2021. All 8 active sites were inspected according the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPP s). The 40 sites that qualify for a conditional exclusion for no exposure were inspected between November 1 through 22, 2021. A summary of inspections and associated corrective actions are included in Table 1 (attached).

**Provide a summary of your past year's quarterly visual assessment documentation, including dates (see Part 3.2.3 of the permit).**

Please see Table 2 (attached) for a summary of visual assessment documentation.

**Provide a summary of your past year's corrective action and/or additional implementation measures (AIM) documentation (See Part 5.3 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Note that you must modify your SWPPP based on the corrective actions and deadlines required under Part 5. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.**

Please see Table 1 (attached) for a summary of corrective action documentation, which specifies the frequency of each of the following by site: (1) unauthorized release or discharge, (2) control measures needing maintenance, repair or replacement, (3) control measures that were inadequate to meet the non-numeric effluent limitations, (4) effluent limitation guidelines e xceedances, and (5) benchmark exceedances (AIM triggering events). One AIM Level 1 triggering event occurred, which was identified on January 18, 2022. Triad is investigating possible sources and appropriate corrective action for the parameter exceedance (Nitrate plus Nitrite Nitrogen) at outfall 022. All other corrective actions were completed per the schedule provided in Part 5.1.3. LANL is in compliance with the permit.

**Attached files:**

| Name | Uploaded Date | Size |
|---|---|---|
| 2021 Annual Report Tables 1 and 2.docx (arptAttachment/762698) | 01/24/2022 | 31.86 KB |

## Certification Information

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 gathered and evaluated 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 have no personal knowledge that the information submitted is other than 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.

**Certified By:** Jennifer payne

**Certifier Title:** Division Leader

**Certifier Email:** jpayne@lanl.gov

**Certified On:** 01/24/2022 5:43 PM ET

**Table 1. Summary of Routine Facility Inspections and Associated Corrective Actions**

| Facility | Status | Inspection Frequency | Inspections Conducted Between 6/25/2021 and 12/31/2021 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-3-29 Indoor TSD | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |
| TA-3-29 Machine Shop | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |
| TA-3-30 Warehouse | No Exposure | Annually | 1 | 11/17/2021 | 1 | — | — | — | — | — |
| TA-3-32 Metal Shop | No Exposure | Annually | 1 | 11/17/2021 | — | — | 2 | — | — | — |
| TA-3-34 Metal Shop | No Exposure | Annually | 1 | 11/17/2021 | 1 | — | 1 | — | — | — |
| TA-3-38 Metals Fabrication Shop | Active | Monthly | 6 | 7/27/2021, 8/30/2021, 9/21/2021, 10/20/2021, 11/28/2021, 12/20/2021 | — | — | 4 | — | — | Baseline |
| TA-3-39 and 102 Metal Shop | No Exposure | Annually | 1 | 11/15/2021 | 3 | 1 | 4 | — | — | — |
| TA-3-40, Room 131S Machine | No Exposure | Annually | 1 | 11/17/2021 | — | — | — | — | — | — |
| TA-3-66 Sigma Facility | No Exposure | Annually | 1 | 11/17/2021 | 1 | 6 | 2 | — | — | — |

| Facility | Status | Inspection Frequency | Inspections Conducted Between 6/25/2021 and 12/31/2021 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-3-2206 Warehouse | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |
| TA-9-28 Heavy Equipment | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-9-0214 Metal Fabrication Shop | Active | Monthly | 6 | 7/29/2021, 8/27/2021, 9/30/2021, 10/28/2021, 11/8/2021, 12/22/2021 | 2 | — | 1 | — | — | Baseline |
| TA-14-23 Burn Cage | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-15-185 Phermex | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-15-313 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-16 Stockpile Area | Active | Quarterly | 2 | 9/23/2021, 11/8/2021 | — | — | — | — | — | N/A |
| TA-22-52 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-33-39 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | 1 | — | — | — |
| TA-33-113 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-35-2 Machine Shop | No Exposure | Annually | 1 | 11/17/2021 | — | — | — | — | — | — |
| TA-35-125 Machine Shop | No Exposure | Annually | 1 | 11/17/2021 | — | — | 1 | — | — | — |
| TA-35-213 Target Fabrication | No Exposure | Annually | 1 | 11/17/2021 | — | 1 | 1 | — | — | — |
| TA-46-31 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-46-77 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | 1 | — | — | — |
| TA-46-0624 Warehouse | No Exposure | Annually | 1 | 11/8/2021 | — | — | 1 | — | — | — |
| TA-48-8 Machine Shop | No Exposure | Annually | 1 | 11/17/2021 | — | — | 1 | — | — | — |
| TA-50-54 Machine Shop | No Exposure | Annually | 1 | 11/17/2021 | 1 | — | — | — | — | — |
| TA-50-69 WCRRF | No Exposure | Annually | 1 | 11/8/2021 | — | 1 | — | — | — | — |
| TA-53-2 Machine Shop | No Exposure | Annually | 1 | 11/11/2021 | — | — | — | — | — | — |
| TA-53-16/0726 Machine Shop | No Exposure | Annually | 1 | 11/11/2021 | — | — | 1 | — | — | — |
| TA-53-26 Machine Shop | No Exposure | Annually | 1 | 11/11/2021 | — | — | — | — | — | — |
| TA-54-38 Indoor TSD | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |
| TA-54-38 Outdoor TSD | No Exposure | Annually | 1 | 11/8/2021 | — | 1 | — | — | — | — |
| TA-55-3 Metal Shop | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-PF-4 Indoor TSD | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-0005 Warehouse | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-0268 Warehouse | No Exposure | Annually | 1 | 11/8/2021 | — | — | 1 | — | — | — |
| TA-55-314 Warehouse | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-355 TSD | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-0430 Metal Shop | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-432 Warehouse | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |

| Facility | Status | Inspection Frequency | Inspections Conducted Between 6/25/2021 and 12/31/2021 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-55 Outdoor TSD | No Exposure | Annually | 1 | 11/22/2022 | — | — | — | — | — | — |
| TA-60 Asphalt Batch Plant | Active | Monthly | 6 | 7/12/2021, 8/2/2021, 9/1/2021, 10/3/2021, 11/9/2021, 12/20/2021 | — | — | — | — | — | Baseline |
| TA-60 MRF | Active | Monthly | 6 | 7/21/2021, 8/9/2021, 9/8/2021, 10/14/2021, 11/18/2021, 12/16/2021 | — | — | — | — | — | N/A |
| TA-60 Roads and Grounds | Active | Monthly | 6 | 7/22/2021, 8/18/2021, 9/27/2021, 10/19/2021, 11/29/2021, 12/20/2021 | 7 | 2 | 9 | — | — | N/A |
| TA-60-1 Heavy Equipment Yard | Active | Monthly | 6 | 7/23/2021, 8/23/2021, 9/17/2021, 10/15/2021, 11/15/2021, 12/9/2021 | 6 | 1 | 4 | — | 1 | Level 1 – NO3+NO2-N |
| TA-60-2 Warehouse | Active | Monthly | 6 | 7/21/2021, 8/24/2021, 9/22/2021, 10/28/2021, 11/16/2021, 12/14/2021 | 1 | — | 2 | — | — | N/A |
| TA-63 Transuranic Waste Facility | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |

TA = Technical Area
TSD = Treatment, storage and disposal
WCRRF = Waste Characterization, Reduction, and Repackaging Facility
PF = Plutonium Facility
MRF = Material Recycling Facility
AIM = Additional Implementation Measures
N/A = Not applicable. Sector-specific requirements do not include benchmark monitoring.

**Table 2. Summary of Quarterly Visual Assessments**

| Facility | Outfall | Outfall Type | Visual Assessments Performed between 7/1/2021 and 12/31/2021 (Q1 and Q2) | Visual Assessment Dates | Evidence of Pollutants Observed |
|---|---|---|---|---|---|
| TA-3-38 Metals Fabrication Shop | 076 | Monitored | 1 | 7/19/2021 | None |
| | 077 | Monitored | 1 | 7/29/2021 | None |
| TA-9-214 Metals Fabrication Shop | 078 | Monitored | 0 | - | - |
| TA-16 Stockpile Area | 079 | Monitored | 0 | - | - |
| TA-60 Asphalt Batch Plant | 043 | Monitored | 0 | - | - |
| TA-60 MRF | 029 | Monitored | 1 | 7/6/2021 | None |
| TA-60 Roads and Grounds | 031 | Monitored | 1 | 8/3/2021 | None |
| | 030 | SIDP to 031 | 1 | 7/21/2021 | None |
| | 032 | Monitored | 1 | 7/29/2021 | None |
| | 033 | SIDP to 032 | 1 | 7/21/2021 | None |
| | 034 | SIDP to 032 | 1 | 7/21/2021 | None |
| | 035 | SIDP to 032 | 1 | 7/21/2021 | None |
| | 037 | Monitored | 0 | - | - |
| | 039 | Monitored | 0 | - | - |
| | 042 | Monitored | 1 | 8/5/2021 | None |
| TA-60-1 Heavy Equipment Yard | 022 | Monitored | 1 | 7/14/2021 | None |
| | 021 | SIDP to 022 | 2 | 7/7/2021, 10/1/2021 | None |
| | 023 | SIDP to 022 | 2 | 7/21/2021, 10/1/2021 | None |
| | 024 | SIDP to 022 | 2 | 7/7/2021, 10/1/2021 | None |
| | 025 | SIDP to 022 | 2 | 7/7/2021, 10/1/2021 | None |
| TA-60-2 Warehouse | 026 | Monitored | 1 | 7/6/2021 | None |
| | 027 | SIDP to 026 | 1 | 10/1/2021 | None |
| | 028 | SIDP to 026 | 2 | 7/7/2021, 10/1/2021 | None |
| | 075 | Monitored | 1 | 7/29/2021 | None |

TA = Technical Area
MRF = Material Recycling Facility
SIDP = Substantially Identical Discharge Point
Q = Monitoring Quarter

| NPDES FORM 6100-28 | EPA | UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT | FORM Approved OMB No. 2040-0300 |
|---|---|---|---|

## Permit Information

**Report Year:** 2022

**Reporting Period:** 01/01/2022 to 12/31/2022

**NPDES ID:** NMR050013

## Facility Information

**Facility Name:** LOS ALAMOS NATIONAL LABORATORY

### Facility Point of Contact

**First Name Middle Initial Last Name:** Terrill Lemke

**Phone:** 505-665-2397 **Ext.:**

**Email:** tlemke@lanl.gov

### Facility Mailing Address

**Address Line 1:** PO BOX 1663

**Address Line 2:** MS K490 **City:** LOS ALAMOS

**ZIP/Postal Code:** 87545 **State:** NM

**County or Similar Division:** Los Alamos

## General Findings

**Provide a summary of your past year's routine facility inspection documentation, including dates (see Part 3.1.6 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.9 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2021." (Note: Operators of airport facilities that are complying with Part 8.S.9 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)**

Los Alamos National Laboratory (LANL), operated by Triad National Security, LLC (Triad), consists of 8 active industrial sites that operate under 4 different Sectors (D, N, P, and AA). Permit coverage became effective on June 25, 2021. All 8 active sites were inspected according to the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPPs). The 39 sites that qualify for a conditional exclusion for no exposure were inspected between November 17 and December 13, 2022. A summary of routine facility inspections, other walkdowns, and associated corrective actions are included in Table 1 (attached).

**Provide a summary of your past year's quarterly visual assessment documentation, including dates (see Part 3.2.3 of the permit).**

Please see Table 2 (attached) for a summary of visual assessment documentation. Outfalls reporting fewer than four visual assessments means no discharge occurred during one or more quarters.

**Provide a summary of your past year's corrective action and/or additional implementation measures (AIM) documentation (See Part 5.3 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Note that you must modify your SWPPP based on the corrective actions and deadlines required under Part 5. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.**

Please see Table 1 (attached) for a summary of corrective action documentation, which specifies the frequency of each of the following by site: (1) unauthorized release or discharge, (2) control measures needing maintenance, repair or replacement, (3) control measures that were inadequate to meet the non-numeric effluent limitations, (4) effluent limitation guidelines exceedances, and (5) benchmark exceedances (AIM triggering events). All corrective actions were completed per the schedule provided in Part 5.1.3. LANL is in compliance with the permit.

**Attached files:**

| Name | Uploaded Date | Size |
|---|---|---|
| 2022 Annual Report Tables 1 and 2.pdf (arptAttachment/826643) | 01/25/2023 | 138.04 KB |

## Certification Information

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 gathered and evaluated 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 have no personal knowledge that the information submitted is other than 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.

**Certified By:** Jennifer payne

**Certifier Title:** Division Leader

**Certifier Email:** jpayne@lanl.gov

**Certified On:** 01/25/2023 6:21 PM ET

**Table 1. Summary of Routine Facility, Other Walkdowns and Associated Corrective Actions**

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-03-0029 Indoor TSD | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-03-0029 Machine Shop | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-03-0030 Warehouse | No Exposure | Annually | 6 | 4/20/22, 6/7/22, 7/12/22, 9/21/22, 12/1/22, 12/6/22 | 5 | — | — | — | — | — |
| TA-03-0032 Metal Shop | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-03-0034 Metal Shop | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-03-0038 Metal Fabrication Shops | Active | Monthly | 13 | 1/31/22, 2/14/22, 3/29/22, 4/21/22, 5/19/22, 6/13/22, 7/14/22, 8/25/22, 9/20/22, 10/19/22, 11/17/22, 12/13/22, 12/14/22 | — | 1 | 8 | — | 3 | Zn - Baseline until Year 4, NO3+NO2-N - AIM Level 1, Al - AIM Level 2 |
| TA-03-0039 & 0102 Metal Shop | No Exposure | Annually | 5 | 4/18/22, 6/27/22, 7/19/22, 11/22/22, 11/28/22 | 2 | — | 5 | — | — | — |
| TA-03-0040, Room 131S Machine Shop | No Exposure | Annually | 2 | 3/28/22, 11/28/22 | — | — | 1 | — | — | — |
| TA-03-0066 Sigma Complex | No Exposure | Annually | 4 | 6/21/22, 9/30/22, 11/28/22, 12/5/22 | 1 | 2 | 9 | — | — | — |
| TA-03-2206 Warehouse | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-09-0028 Heavy Equipment Maintenance | No Exposure | Annually | 2 | 4/20/22, 11/17/22 | 1 | — | 1 | — | — | — |
| TA-09-0214 Metal Fabrication Shop | Active | Monthly | 12 | 1/4/22, 2/28/22, 3/24/22, 4/21/22, 5/9/22, 6/7/22, 7/28/22, 8/25/22, 9/28/22, 10/25/22, 11/30/22, 12/20/22 | 1 | — | 1 | — | — | Baseline |
| TA-14-0023 OBOD TSD (Burn Cage) | No Exposure | Annually | 1 | 11/17/22 | — | — | — | — | — | — |
| TA-15-0185 (PHERMEX) | No Exposure | Annually | 1 | 11/17/22 | — | — | — | — | — | — |

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-15-0313 Machine Shop | No Exposure | Annually | 1 | 11/17/22 | 1 | — | 1 | — | — | — |
| TA-16 Stockpile Area | Active | Quarterly | 4 | 2/28/22, 4/21/22, 9/6/22, 12/20/22 | — | — | 1 | — | — | N/A |
| TA-22-0052 Machine Shop | No Exposure | Annually | 1 | 11/17/22 | — | 1 | — | — | — | — |
| TA-33-0039 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | — | — | — | — |
| TA-33-0113 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | 1 | — | — | — |
| TA-35-0002 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | — | — | — | — |
| TA-35-0125 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | — | — | — | — |
| TA-35-0213 Target Fabrication Facility | No Exposure | Annually | 1 | 11/29/22 | — | — | 4 | — | — | — |
| TA-46-0031 Machine Shop | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-46-0077 Machine Shop | No Exposure | Annually | 4 | 6/28/22, 8/9/22, 9/12/22, 11/28/22 | — | — | 3 | — | — | — |
| TA-46-0624 Warehouse | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-48-0008 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | 1 | — | — | — |
| TA-50-0054 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | — | — | — | — |
| TA-50-0069 WCRRF | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-53-0002 Machine Shop | No Exposure | Annually | 2 | 12/8/22, 12/14/22 | — | 1 | — | — | — | — |
| TA-53-0016/0726 Machine Shop | No Exposure | Annually | 1 | 12/13/22 | — | — | — | — | — | — |
| TA-53-0026 Machine Shop | No Exposure | Annually | 1 | 12/13/22 | — | — | 1 | — | — | — |
| TA-54-0038 Indoor TSD | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-54-0038 Outdoor TSD | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-55 PF-0004 Indoor TSD | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |
| TA-55-0005 Warehouse | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |
| TA-55-0268 Warehouse | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-55-0314 Warehouse | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |
| TA-55-0355 TSD | No Exposure | Annually | 1 | 11/30/22 | — | — | 1 | — | — | — |
| TA-55-0430 Metal Shop | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |
| TA-55-0432 Warehouse | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |
| TA-55 Outdoor TSD | No Exposure | Annually | 1 | 11/30/22 | — | 1 | — | — | — | — |
| TA-60 Asphalt Batch Plant | Active | Monthly | 14 | 1/4/22, 1/25/22, 2/8/22, 3/1/22, 4/6/22, 5/3/22, 6/1/22, 6/27/22, 7/5/22, 8/1/22, 9/6/22, 10/3/22, 11/2/22, 12/20/22 | 1 | 1 | 4 | 2 | — | Baseline |
| TA-60 Material Recycling Facility | Active | Monthly | 13 | 1/25/22, 2/14/22, 3/2/22, 4/21/22, 5/18/22, 6/14/22, 7/18/22, 8/15/22, 9/13/22, 10/13/22, 11/8/22, 12/19/22, 12/20/22 | 2 | 2 | 3 | — | — | N/A |
| TA-60 Roads and Grounds and TA-61 Asphalt Staging Area | Active | Monthly | 21 | 1/31/22, 2/15/22, 3/16/22, 4/26/22, 5/31/22, 6/27/22, 6/28/22, 7/5/22, 7/25/22, 8/11/22, 8/29/22, 9/13/22, 9/22/22, 9/28/22, 10/20/22, 11/2/22, 11/22/22, 11/29/22, 12/10/22, 12/16/22, 12/19/22 | 9 | 6 | 23 | — | — | N/A |
| TA-60-0001 Heavy Equipment Yard | Active | Monthly | 22 | 1/20/22, 2/22/22, 3/22/22, 3/24/22, 4/22/22, 4/26/22, 5/24/22, 6/9/22, 6/16/22, 6/24/22, 7/18/22, 7/20/22, 8/2/22, 8/9/22, 8/19/22, 9/6/22, 9/29/22, 10/28/22 11/08/22, 11/21/22, 12/14/22, 12/21/22 | 17 | 3 | 8 | — | 2 | Zn and NO3+NO2-N – Baseline until Year 4, Al – AIM Level 1 |

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-60-0002 Warehouse | Active | Monthly | 12 | 1/20/22, 2/24/22, 3/22/22, 4/19/22, 5/17/22, 6/15/22, 7/12/22, 8/18/22, 9/20/22, 10/18/22, 11/16/22, 12/19/22 | — | — | 4 | — | — | N/A |
| TA-63 Transuranic Waste Facility TSDs | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |

TA = Technical Area
TSD = Treatment, storage and disposal
WCRRF = Waste Characterization, Reduction, and Repackaging Facility
PF = Plutonium Facility
AIM = Additional Implementation Measures
N/A = Not applicable. Sector-specific requirements do not include benchmark monitoring.

**Table 2. Summary of Quarterly Visual Assessments**

| Facility | Outfall | Outfall Type | Visual Assessments Performed between 1/1/2022 and 12/31/2022 | Visual Assessment Dates | Evidence of Pollutants Observed |
|---|---|---|---|---|---|
| TA-03-0038 Metal Fabrication Shops | 076 | Monitored | 2 | 6/23/22, 7/21/22 | None |
| | 077 | Monitored | 3 | 6/27/22, 8/1/22, 10/3/22 | None |
| TA-09-0214 Metal Fabrication Shop | 079 | Monitored | 1 | 7/5/22 | None |
| TA-16 Stockpile Area | 078 | Monitored | 1 | 8/2/22 | None |
| TA-60 Asphalt Batch Plant | 043 | Monitored | 3 | 6/27/22, 7/5/22, 8/1/22 | None |
| TA-60 Material Recycling Facility | 029 | Monitored | 4 | 3/18/22, 6/23/22, 7/21/22, 10/3/22 | None |
| TA-60 Roads and Grounds and TA-61 Asphalt Staging Area | 031 | Monitored | 3 | 6/27/22, 7/5/22, 10/17/22 | None |
| | 030 | SIDP to 031 | 4 | 1/6/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 032 | Monitored | 3 | 6/23/22, 7/5/22, 10/6/22 | None |
| | 033 | SIDP to 032 | 4 | 3/1/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 034 | SIDP to 032 | 4 | 3/1/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 035 | SIDP to 032 | 4 | 3/1/22, 6/23/22, 7/5/22, 10/3/22 | None |
| | 037 | Monitored | 2 | 6/28/22, 8/1/22 | None |
| | 039 | Monitored | 1 | 6/27/22 | None |
| | 042 | Monitored | 3 | 6/23/22, 7/5/22, 10/17/22 | None |
| | 084 | Monitored | 0 | - | None |
| TA-60-0001 Heavy Equipment Yard | 022 | Monitored | 5 | 1/3/22, 3/18/22, 6/27/22, 7/5/22, 10/6/22 | None |
| | 021 | SIDP to 022 | 4 | 1/6/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 023 | SIDP to 022 | 4 | 1/10/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 024 | SIDP to 022 | 4 | 1/3/22, 6/20/22, 7/18/22, 10/3/22 | None |
| | 025 | SIDP to 022 | 4 | 1/10/22, 6/20/22, 7/5/22, 10/3/22 | None |
| TA-60-0002 Warehouse | 026 | Monitored | 4 | 1/6/22, 6/23/22, 7/5/22, 10/3/22 | None |
| | 027 | SIDP to 026 | 4 | 2/10/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 028 | SIDP to 026 | 4 | 1/6/22, 6/20/22, 7/18/22, 10/3/22 | None |
| | 075 | Monitored | 3 | 6/23/22, 7/5/22, 10/3/22 | None |

TA = Technical Area
SIDP = Substantially Identical Discharge Point

| NPDES FORM 6100-28 | | UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT | FORM Approved OMB No. 2040-0004 Expires on 07/31/2026 |
|---|---|---|---|

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations (40 CFR 122.41(h)). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information is estimated to average 1 hour per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

## Permit Information

**Report Year:** 2023

**Reporting Period:** 01/01/2023 to 12/31/2023

**NPDES ID:** NMR050013

## Facility Information

**Facility Name:** LOS ALAMOS NATIONAL LABORATORY

Facility Point of Contact

**First Name** **Middle Initial** **Last Name:** Terrill Lemke

**Phone:** 505-665-2397 **Ext.:**

**Email:** tlemke@lanl.gov

Facility Mailing Address

**Address Line 1:** PO BOX 1663

**Address Line 2:** MS K490 **City:** LOS ALAMOS

**ZIP/Postal Code:** 87545 **State:** NM

**County or Similar Division:** Los Alamos

## General Findings

**Provide a summary of your past year's routine facility inspection documentation, including dates (see Part 3.1.6 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.9 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2021." (Note: Operators of airport facilities that are complying with Part 8.S.9 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)**

Los Alamos National Laboratory (LANL), operated by Triad National Security, LLC (Triad), consists of 8 active industrial sites that operate under 4 different Sectors (D, N, P, and AA). Permit coverage became effective on June 25, 2021. All 8 active sites were inspected according to the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPPs). The 38 sites that qualify for a conditional exclusion for no exposure were inspected between November 01 and December 13, 2023. A summary of routine facility inspections, other walkdowns, and associated corrective actions are included in Table 1 (attached).

**Provide a summary of your past year's quarterly visual assessment documentation, including dates (see Part 3.2.3 of the permit).**

Please see Table 2 (attached) for a summary of visual assessment documentation. Outfalls reporting fewer than four visual assessments means no discharge occurred during one or more quarters.

**Provide a summary of your past year's corrective action and/or additional implementation measures (AIM) documentation (See Part 5.3 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Note that you must modify your SWPPP based on the corrective actions and deadlines required under Part 5. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.**

Please see Table 1 (attached) for a summary of corrective action documentation, which specifies the frequency of each of the following by site: (1) unauthorized release or discharge, (2) control measures needing maintenance, repair or replacement, (3) control measures that were inadequate to meet the non-numeric effluent limitations, (4) effluent limitation guidelines exceedances, (5) benchmark exceedances (AIM triggering events), and AIM Level at the end of the reporting period. All corrective actions were completed per the schedule provided in Part 5.1.3. LANL is in compliance with the permit.

**Attached files:**

| Name | Uploaded Date | Size |
|---|---|---|
| 2023 Annual Report Tables 1 and 2 FINAL 1-22-2024.docx (arptAttachment/864431) | 01/22/2024 | 35.53 KB |

Certification Information

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 gathered and evaluated 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 have no personal knowledge that the information submitted is other than 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.

**Certified By:** Jennifer payne

**Certifier Title:** Division Leader

**Certifier Email:** jpayne@lanl.gov

**Certified On:** 01/30/2024 10:58 AM ET

**Table 1. Summary of Routine Facility Inspections, Other Walkdowns and Associated Corrective Actions**

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2023 and 12/31/2023 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-03-0029 Indoor TSD | No Exposure | Annually | 1 | 11/16/23 | — | — | — | — | — | — |
| TA-03-0029 Machine Shop | No Exposure | Annually | 1 | 11/16/23 | — | 1 | — | — | — | — |
| TA-03-0030 Warehouse | No Exposure | Annually | 6 | 1/23/23, 3/27/23, 8/14/23, 8/15/23, 9/8/23, 11/7/23 | 5 | — | — | — | — | — |
| TA-03-0032 Metal Shop | No Exposure | Annually | 1 | 11/22/23 | 1 | — | 1 | — | — | — |
| TA-03-0034 Metal Shop | No Exposure | Annually | 1 | 11/22/23 | — | — | 1 | — | — | — |
| TA-03-0038 Metal Fabrication Shops | Active | Monthly | 13 | 1/24/23, 2/22/23, 3/21/23, 4/10/23, 4/11/23, 5/18/23, 6/14/23, 7/18/23, 8/24/23, 9/20/23, 10/25/23, 11/16/23, 12/11/23 | 1 | 1 | 2 | — | 0 | Zn - Baseline until Year 4, NO3+NO2-N - AIM Level 1, Al - AIM Level 2 |
| TA-03-0039 & 0102 Metal Shop | No Exposure | Annually | 3 | 4/13/23, 5/15/23, 11/22/23 | 3 | 1 | 2 | — | — | — |
| TA-03-0040, Room 131S Machine Shop | No Exposure | Annually | 2 | 8/1/23, 11/22/23 | — | — | 1 | — | — | — |
| TA-03-0066 Sigma Complex | No Exposure | Annually | 7 | 6/1/23, 6/29/23, 8/7/23, 9/19/23, 11/6/23, 11/8/23, 11/22/23 | 3 | — | 8 | — | — | — |
| TA-03-2206 Warehouse | No Exposure | Annually | 1 | 11/16/23 | — | — | 1 | — | — | — |
| TA-09-0028 Heavy Equipment Maintenance | No Exposure | Annually | 1 | 11/8/23 | — | — | — | — | — | — |
| TA-09-0214 Metal Fabrication Shop | Active | Monthly | 14 | 1/31/23, 2/27/23, 3/30/23, 4/20/23, 5/22/23, 7/3/23, 7/25/23, 8/15/23, 8/17/23, 9/20/23, 9/26/23, 10/30/23, 11/22/23, 12/6/23 | 1 | 1 | 3 | — | 0 | Baseline |
| TA-14-0023 OBOD TSD (Burn Cage) | No Exposure | Annually | 1 | 11/8/23 | — | — | — | — | — | — |
| TA-15-0185 (PHERMEX) | No Exposure | Annually | 1 | 11/8/23 | — | — | — | — | — | — |

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2023 and 12/31/2023 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-15-0313 Machine Shop | No Exposure | Annually | 1 | 11/8/23 | — | — | 2 | — | — | — |
| TA-16 Stockpile Area | Active | Quarterly | 4 | 3/30/23, 7/18/23, 9/19/23, 12/5/23 | — | — | 1 | — | — | N/A |
| TA-22-0052 Machine Shop | No Exposure | Annually | 1 | 11/8/23 | — | 1 | — | — | — | — |
| TA-33-0039 Machine Shop | No Exposure | Annually | 1 | 03/27/23 | — | — | 1 | — | — | — |
| TA-33-0113 Machine Shop | No Exposure | Annually | 1 | 12/13/23 | — | — | — | — | — | — |
| TA-35-0002 Machine Shop | No Exposure | Annually | 1 | 11/21/23 | — | — | — | — | — | — |
| TA-35-0125 Machine Shop | No Exposure | Annually | 3 | 3/28/23, 6/12/23, 11/21/23 | — | — | 2 | — | — | — |
| TA-35-0213 Target Fabrication Facility | No Exposure | Annually | 2 | 11/16/23, 11/21/23 | — | — | 1 | — | — | — |
| TA-46-0031 Machine Shop | No Exposure | Annually | 2 | 8/1/23, 11/21/23 | — | — | 3 | — | — | — |
| TA-46-0077 Machine Shop | No Exposure | Annually | 1 | 11/21/23 | — | — | — | — | — | — |
| TA-46-0624 Warehouse | No Exposure | Annually | 1 | 11/16/23 | — | — | 5 | — | — | — |
| TA-48-0008 Machine Shop | No Exposure | Annually | 1 | 11/21/23 | — | — | — | — | — | — |
| TA-50-0054 Machine Shop | No Exposure | Annually | 2 | 11/15/23, 11/21/23 | — | — | 1 | — | — | — |
| TA-50-0069 WCRRF | No Exposure | Annually | 1 | 11/16/23 | — | — | 1 | — | — | — |
| TA-53-0002 Machine Shop | No Exposure | Annually | 1 | 11/1/23 | — | — | — | — | — | — |
| TA-53-0016/0726 Machine Shop | No Exposure | Annually | 1 | 11/1/23 | — | — | 1 | — | — | — |
| TA-53-0026 Machine Shop | No Exposure | Annually | 1 | 11/1/23 | — | 1 | 1 | — | — | — |
| TA-54-0038 Indoor TSD | No Exposure | Annually | 1 | 11/16/23 | — | — | — | — | — | — |
| TA-54-0038 Outdoor TSD | No Exposure | Annually | 1 | 11/16/23 | — | 1 | 2 | — | — | — |
| TA-55 PF-0004 Indoor TSD | No Exposure | Annually | 1 | 11/29/23 | — | — | 4 | — | — | — |
| TA-55-0005 Warehouse | No Exposure | Annually | 1 | 11/29/23 | — | — | — | — | — | — |
| TA-55-0268 Warehouse | No Exposure | Annually | 1 | 11/29/23 | — | — | — | — | — | — |
| TA-55-0314 Warehouse | No Exposure | Annually | 1 | 11/29/23 | — | — | — | — | — | — |

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2023 and 12/31/2023 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-55-0355 TSD | No Exposure | Annually | 1 | 11/29/23 | — | — | 1 | — | — | — |
| TA-55-0430 Metal Shop | No Exposure | Annually | 1 | 11/29/23 | — | — | — | — | — | — |
| TA-55-0432 Warehouse | No Exposure | Annually | 1 | 11/29/23 | — | — | — | — | — | — |
| TA-55 Outdoor TSD | No Exposure | Annually | 1 | 11/29/23 | — | — | — | — | — | — |
| TA-60 Asphalt Batch Plant | Active | Monthly | 12 | 1/9/23, 2/2/23, 3/1/23, 4/5/23, 5/8/23, 6/12/23, 7/10/23, 8/8/23, 9/8/23, 10/5/23, 11/6/23, 12/19/23 | 1 | — | — | — | 0 | Baseline |
| TA-60 Material Recycling Facility | Active | Monthly | 15 | 1/10/23, 2/6/23, 3/7/23, 4/10/23, 5/16/23, 6/13/23, 7/13/23, 8/14/23, 8/25/23, 9/19/23, 10/16/23, 10/18/23, 11/6/23, 12/20/23, 12/22/23 | 5 | 1 | 1 | — | — | N/A |
| TA-60 Roads and Grounds and TA-61 Asphalt Staging Area | Active | Monthly | 15 | 1/13/23, 2/9/23, 3/27/23, 4/25/23, 5/10/23, 5/30/23, 6/28/23, 7/28/23, 8/9/23, 8/28/23, 9/20/23, 10/20/23, 11/7/23, 11/17/23, 12/21/23 | 5 | 3 | 19 | — | — | N/A |
| TA-60-0001 Heavy Equipment Yard | Active | Monthly | 18 | 1/25/23, 2/21/23, 2/23/23, 3/27/23, 4/5/23, 4/24/23, 4/28/23, 5/18/23, 6/9/23, 6/27/23, 7/20/23, 8/29/23, 9/14/23, 10/27/23, 11/9/23, 12/11/23, 12/12/23, 12/18/23 | 11 | 4 | 14 | — | 1 | Zn and NO3+NO2-N – Baseline until Year 4, Al – AIM Level 2 |
| TA-60-0002 Warehouse | Active | Monthly | 15 | 1/19/23, 2/14/23, 3/23/23, 4/12/23, 5/4/23, 5/16/23, 5/24/23, 6/21/23, 7/18/23, 8/21/23, 9/19/23, 10/11/23, 11/15/23, 12/19/23 | 3 | 2 | 2 | — | — | N/A |
| TA-63 Transuranic Waste Facility TSDs | No Exposure | Annually | 2 | 9/21/23, 11/16/23 | 1 | — | 1 | — | — | — |

TA = Technical Area
TSD = Treatment, storage and disposal
WCRRF = Waste Characterization, Reduction, and Repackaging Facility
PF = Plutonium Facility
AIM = Additional Implementation Measures
N/A = Not applicable. Sector-specific requirements do not include benchmark monitoring.

**Table 2. Summary of Quarterly Visual Assessments**

| Facility | Outfall | Outfall Type | Visual Assessments Performed between 1/1/2023 and 12/31/2023 | Visual Assessment Dates | Evidence of Pollutants Observed |
|---|---|---|---|---|---|
| TA-03-0038 Metal Fabrication Shops | 076 | Monitored | 2 | 5/31/23, 7/27/2023 | None |
| | 077 | Monitored | 0 | - | None |
| TA-09-0214 Metal Fabrication Shop | 079 | Monitored | 0 | - | None |
| TA-16 Stockpile Area | 078 | Monitored | 0 | - | None |
| TA-60 Asphalt Batch Plant | 043 | Monitored | 0 | - | None |
| TA-60 Material Recycling Facility | 029 | Monitored | 3 | 1/4/23, 5/16/23, 7/27/23 | None |
| TA-60 Roads and Grounds and TA-61 Asphalt Staging Area | 031 | Monitored | 1 | 8/29/23 | None |
| | 030 | SIDP to 031 | 4 | 2/23/23, 5/17/23, 8/9/23, 10/3/23 | None |
| | 032 | Monitored | 3 | 3/3/23, 5/31/23, 8/8/23 | None |
| | 033 | SIDP to 032 | 4 | 2/8/23, 5/20/23, 8/9/23, 10/3/23 | None |
| | 034 | SIDP to 032 | 4 | 2/8/23, 5/17/23, 8/9/23, 10/3/23 | None |
| | 035 | SIDP to 032 | 4 | 2/8/23, 5/20/23, 8/9/23, 10/3/23 | None |
| | 037 | Monitored | 0 | - | None |
| | 039 | Monitored | 0 | - | None |
| | 042 | Monitored | 3 | 3/9/23, 9/12/23, 12/22/23 | None |
| | 084 | Monitored | 0 | - | None |
| TA-60-0001 Heavy Equipment Yard | 022 | Monitored | 3 | 3/3/23, 5/16/23, 8/8/23 | None |
| | 021 | SIDP to 022 | 4 | 1/5/23, 5/16/23, 7/24/23, 10/3/23 | None |
| | 023 | SIDP to 022 | 4 | 1/5/23, 5/16/23, 7/28/23, 10/3/23 | None |
| | 024 | SIDP to 022 | 4 | 1/5/23, 5/16/23, 7/24/23, 10/3/23 | None |
| | 025 | SIDP to 022 | 4 | 1/5/23, 5/16/23, 7/24/23, 10/3/23 | None |
| TA-60-0002 Warehouse | 026 | Monitored | 4 | 1/4/23, 5/15/23, 7/25/23, 10/3/23 | None |
| | 027 | SIDP to 026 | 4 | 1/5/23, 5/16/23, 7/28/23, 10/3/23 | None |
| | 028 | SIDP to 026 | 4 | 1/5/23, 5/16/23, 7/24/23, 10/3/23 | None |
| | 075 | Monitored | 3 | 2/9/23, 5/22/23, 8/8/23 | None |

TA = Technical Area
SIDP = Substantially Identical Discharge Point

# 2024 MSGP Annual Report

**1. Provide a summary of your past year's routine facility inspection documentation, including dates (see Part 3.1.6 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.9 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2021." (Note: Operators of airport facilities that are complying with Part 8.S.9 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)**

Los Alamos National Laboratory (LANL), operated by Triad National Security, LLC (Triad), consists of 9 active industrial sites that operate under 5 different Sectors (A, D, N, P, and AA). Permit coverage became effective on June 25, 2021. All 9 active sites were inspected according to the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPPs). The 38 sites that qualify for a conditional exclusion for no exposure were inspected between September 09 and November 21, 2024. A summary of routine facility inspections, other walkdowns, and associated corrective actions are included in Table 1 (attached).

**3. Provide a summary of your past year's corrective action and/or additional implementation measures (AIM) documentation (See Part 5.3 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Note that you must modify your SWPPP based on the corrective actions and deadlines required under Part 5. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.**

Please see Table 1 (attached) for a summary of corrective action documentation, which specifies the frequency of each of the following by site: (1) unauthorized release or discharge, (2) control measures needing maintenance, repair or replacement, (3) control measures that were inadequate to meet the non-numeric effluent limitations, (4) effluent limitation guidelines exceedances, (5) benchmark exceedances (AIM triggering events), and AIM Level at the end of the reporting period. All corrective actions were completed per the schedule provided in Part 5.1.3. LANL is in compliance with the permit.

**Table 1. Summary of Routine Facility Inspections, Other Walkdowns and Associated Corrective Actions**

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2024 and 12/31/2024 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-03-0029 Indoor TSD | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-03-0029 Machine Shop | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-03-0030 Warehouse | No Exposure | Annually | 4 | 1/2/24, 4/10/24, 10/1/24, 10/30/24 | 3 | — | — | — | — | — |
| TA-03-0032 Metal Shop | No Exposure | Annually | 3 | 2/22/24, 9/4/24, 9/9/24 | — | — | 2 | — | — | — |
| TA-03-0034 Metal Shop | No Exposure | Annually | 3 | 4/11/24, 9/4/24, 9/9/24 | 1 | — | 1 | — | — | — |
| TA-03-0038 Metal Fabrication Shops | Active | Monthly | 12 | 1/30/24, 2/20/24, 3/14/24, 4/11/24, 5/16/24, 6/25/24, 7/23/24, 8/26/24, 9/25/24, 10/29/24, 11/25/24, 12/17/24 | — | 2 | — | — | — | Zn - Baseline, NO3+NO2-N - AIM Level 1, Al - AIM Level 2 |

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2024 and 12/31/2024 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-03-0039 & 0102 Metal Shop | No Exposure | Annually | 4 | 1/24/24, 3/11/24, 6/19/24, 9/24/24 | 1 | — | 3 | — | — | — |
| TA-03-0040, Room 131S Machine Shop | No Exposure | Annually | 2 | 2/22/24, 9/9/24 | — | — | 1 | — | — | — |
| TA-03-0066 Sigma Complex | No Exposure | Annually | 10 | 1/8/24, 1/10/24, 2/21/24, 3/7/24, 3/19/24, 4/25/24, 5/20/24, 7/12/24, 9/3/24, 9/19/24 | 5 | — | 9 | — | — | — |
| TA-03-2206 Warehouse | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-09-0028 Heavy Equipment Maintenance | No Exposure | Annually | 1 | 9/24/24 | — | — | — | — | — | — |
| TA-09-0214 Metal Fabrication Shop | Active | Monthly | 13 | 1/30/24, 2/28/24, 3/26/24, 4/30/24, 5/28/24, 6/13/24 6/28/24, 7/31/24, 8/29/24, 9/30/24, 10/31/24, 11/21/24, 12/16/24 | 2 | — | — | — | — | Baseline |
| TA-14-0023 OBOD TSD (Burn Cage) | No Exposure | Annually | 1 | 9/24/24 | — | — | — | — | — | — |
| TA-15-0185 (PHERMEX) | No Exposure | Annually | 1 | 9/24/24 | — | — | — | — | — | — |
| TA-15-0313 Machine Shop | No Exposure | Annually | 1 | 9/24/24 | — | — | — | — | — | — |
| TA-16 Stockpile Area | Active | Quarterly | 4 | 3/26/24, 6/28/24, 9/30/24, 12/16/24 | — | — | — | — | — | N/A |
| TA-22-0052 Machine Shop | No Exposure | Annually | 1 | 9/24/24 | — | — | — | — | — | — |
| TA-33-0113 Machine Shop | No Exposure | Annually | 1 | 9/18/24 | — | — | — | — | — | — |
| TA-35-0002 Machine Shop | No Exposure | Annually | 2 | 5/1/24, 9/10/24 | — | — | 1 | — | — | — |
| TA-35-0125 Machine Shop | No Exposure | Annually | 1 | 9/10/24 | — | — | — | — | — | — |
| TA-35-0213 Target Fabrication Facility | No Exposure | Annually | 2 | 9/3/24, 9/10/24 | — | — | 2 | — | — | — |
| TA-46-0031 Machine Shop | No Exposure | Annually | 2 | 4/25/24, 9/10/24 | — | — | 3 | — | — | — |
| TA-46-0077 Machine Shop | No Exposure | Annually | 1 | 9/10/24 | — | — | — | — | — | — |

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2024 and 12/31/2024 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-46-0624 Warehouse | No Exposure | Annually | 1 | 10/30/24 | — | — | — | — | — | — |
| TA-48-0008 Machine Shop | No Exposure | Annually | 3 | 1/2/24, 1/17/24, 9/10/24 | 2 | — | — | — | — | — |
| TA-50-0054 Machine Shop | No Exposure | Annually | 1 | 9/10/24 | — | — | — | — | — | — |
| TA-50-0069 WCRRF | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-53-0002 Machine Shop | No Exposure | Annually | 1 | 10/28/24 | — | — | — | — | — | — |
| TA-53-0016/0726 Machine Shop | No Exposure | Annually | 1 | 10/28/24 | — | — | 1 | — | — | — |
| TA-53-0026 Machine Shop | No Exposure | Annually | 1 | 10/28/24 | — | — | — | — | — | — |
| TA-54-0038 Indoor TSD | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-54-0038 Outdoor TSD | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-55 Outdoor TSD | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-55-0004 Indoor TSD | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-55-0005 Warehouse | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-55-0268 Warehouse | No Exposure | Annually | 1 | 11/21/24 | — | — | 1 | — | — | — |
| TA-55-0314 Warehouse | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-55-0355 TSD | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-55-0430 Metal Shop | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-55-0432 Warehouse | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-60 Asphalt Batch Plant | Active | Monthly | 14 | 1/9/24, 2/8/24, 3/4/24, 3/11/24, 4/1/24, 4/30/24, 5/7/24, 6/10/24, 7/15/24, 8/12/24, 9/4/24, 10/14/24, 11/04/24, 12/11/24 | 2 | — | 1 | — | — | Baseline |
| TA-60 Material Recycling Facility | Active | Monthly | 13 | 1/8/24, 2/12/24, 3/19/24, 4/11/24, 4/16/24, 5/20/24, 6/18/24, 7/16/24, 8/19/24, 9/9/24, 10/22/24, 11/12/24, 12/17/24 | 1 | 1 | — | — | — | N/A |

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2024 and 12/31/2024 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-60 Roads and Grounds and TA-61 Asphalt Staging Area | Active | Monthly | 17 | 1/10/24, 2/23/24, 3/17/24, 3/22/24, 4/16/24, 4/19/24, 5/9/24, 5/28/24, 6/27/24, 7/29/24, 8/12/24, 8/26/24, 9/24/24, 10/28/24, 11/13/24, 11/21/24, 12/19/24 | 6 | 2 | 19 | — | — | N/A |
| TA-60-0001 Heavy Equipment Yard | Active | Monthly | 18 | 1/24/24, 2/21/24, 2/22/24, 3/18/24, 4/1/24, 4/16/24, 5/21/24, 5/28/24, 6/17/24, 6/25/24, 7/24/24, 8/21/24, 9/26/24, 10/9/24, 10/22/24, 11/21/24, 12/17/24, 12/19/24 | 9 | 5 | 12 | — | 1 | Zn and NO3+NO2-N – Baseline, Al – AIM Level 3 |
| TA-60-0002 Warehouse | Active | Monthly | 14 | 1/22/24, 1/29/24, 2/26/24, 3/20/24, 4/15/24, 5/21/24, 6/20/24, 7/24/24, 8/21/24, 8/26/24, 9/18/24, 10/29/24, 11/21/24, 12/18/24 | 2 | 2 | — | — | — | N/A |
| TA-63 Transuranic Waste Facility TSDs | No Exposure | Annually | 1 | 11/21/24 | — | — | — | — | — | — |
| TA-69 Wood Yard[1] | Active | Quarterly | 2 | 8/1/24, 11/12/24 | — | — | — | — | — | Baseline |

[1]New facility opened in July 2024.

TA = Technical Area
TSD = Treatment, storage and disposal
WCRRF = Waste Characterization, Reduction, and Repackaging Facility
AIM = Additional Implementation Measures
N/A = Not applicable. Sector-specific requirements do not include benchmark monitoring.

**2. Provide a summary of your past year's quarterly visual assessment documentation, including dates (see Part 3.2.3 of the permit).**

Please see Table 2 (attached) for a summary of visual assessment documentation. Outfalls reporting fewer than four visual assessments means no discharge occurred during one or more quarters.

**Table 2. Summary of Quarterly Visual Assessments**

| Facility | Outfall | Outfall Type | Visual Assessments Performed between 1/1/2024 and 12/31/2024 | Visual Assessment Dates | Evidence of Pollutants Observed |
|---|---|---|---|---|---|
| TA-03-0038 Metal Fabrication Shops | 076 | Monitored | 2 | 6/11/24, 7/18/24 | None |
| | 077 | Monitored | 0 | — | None |
| TA-09-0214 Metal Fabrication Shop | 079 | Monitored | 0 | — | None |
| TA-16 Stockpile Area | 078 | Monitored | 1 | 9/13/24 | None |
| TA-60 Asphalt Batch Plant | 043 | Monitored | 0 | — | None |
| TA-60 Material Recycling Facility | 029 | Monitored | 4 | 1/26/24, 4/2/24, 7/16/24, 11/6/24 | None |
| TA-60 Roads and Grounds and TA-61 Asphalt Staging Area | 031 | Monitored | 3 | 7/1/24, 7/2/24, 10/23/24 | None |
| | 030 | SIDP to 031 | 4 | 3/11/24, 4/2/24, 7/16/24, 10/23/24 | None |
| | 032 | Monitored | 4 | 2/2/24, 5/16/24, 7/16/24, 10/23/24 | None |
| | 033 | SIDP to 032 | 4 | 3/11/24, 4/2/24, 7/16/24, 10/23/24 | None |
| | 034 | SIDP to 032 | 4 | 3/11/24, 4/2/24, 7/16/24, 10/23/24 | None |
| | 035 | SIDP to 032 | 4 | 3/11/24, 4/2/24, 7/16/24, 10/23/24 | None |
| | 037 | Monitored | 2 | 7/18/24, 10/23/24 | None |
| | 039 | Monitored | 0 | - | None |
| | 042 | Monitored | 4 | 2/2/24, 5/16/24, 7/2/24, 10/23/24 | None |
| | 084 | Monitored | 2 | 3/18/24, 7/2/24 | None |
| TA-60-0001 Heavy Equipment Yard | 022 | Monitored | 4 | 2/2/24, 5/14/24, 7/18/24, 11/6/24 | None |
| | 021 | SIDP to 022 | 4 | 1/8/24, 4/1/24, 7/2/24, 10/21/24 | None |
| | 023 | SIDP to 022 | 4 | 1/16/24, 4/1/24, 7/2/24, 10/21/24 | None |
| | 024 | SIDP to 022 | 4 | 1/8/24, 4/1/24, 7/2/24, 10/21/24 | Oil Sheen 4/1/24 |
| | 025 | SIDP to 022 | 4 | 1/8/24, 4/1/24, 7/2/24, 10/21/24 | None |
| TA-60-0002 Warehouse | 026 | Monitored | 4 | 1/26/24, 4/2/24, 7/2/24, 11/6/24 | None |
| | 027 | SIDP to 026 | 4 | 1/8/24, 5/13/24. 7/2/24, 10/21/24 | None |
| | 028 | SIDP to 026 | 4 | 1/8/24, 4/1/24, 7/2/24, 10/21/24 | None |
| | 075 | Monitored | 3 | 2/15/24, 6/11/24, 7/2/24 | None |
| TA-69 Wood Yard | 085 | Monitored | 2 | 7/19/24, 10/23/24 | None |

TA = Technical Area
SIDP = Substantially Identical Discharge Point

| NPDES FORM 6100-28 | | UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT | FORM Approved OMB No. 2040-0004 Expires on 07/31/2026 |
|---|---|---|---|

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations (40 CFR 122.41(h)). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information is estimated to average 1 hour per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

## Permit Information

**Report Year:** 2025

**Reporting Period:** 01/01/2025 to 12/31/2025

**NPDES ID:** NMR050013

## Facility Information

**Facility Name:** LOS ALAMOS NATIONAL LABORATORY

Facility Point of Contact

**First Name** **Middle Initial** **Last Name:** Terrill Lemke

**Phone:** 505-665-2397 **Ext.:**

**Email:** tlemke@lanl.gov

Facility Mailing Address

**Address Line 1:** PO BOX 1663

**Address Line 2:** MS K490

**City:** LOS ALAMOS

**ZIP/Postal Code:** 87545

**State:** NM

**County or Similar Division:** Los Alamos

## General Findings

**Provide a summary of your past year's routine facility inspection documentation, including dates (see Part 3.1.6 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.9 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2021." (Note: Operators of airport facilities that are complying with Part 8.S.9 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)**

Los Alamos National Laboratory (LANL), operated by Triad National Security, LLC (Triad), consists of 9 active industrial sites that operate under 5 different Sectors (A, D, N, P, and AA). Permit coverage became effective on June 25, 2021. All 9 active sites were inspected according to the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPPs). The 36 sites that qualify for a conditional exclusion for no exposure were inspected between September 10 and October 28, 2025. A summary of routine facility inspections, other walkdowns, and associated corrective actions are included in Table 1 (attached).

**Provide a summary of your past year's quarterly visual assessment documentation, including dates (see Part 3.2.3 of the permit).**

Please see Table 2 (attached) for a summary of visual assessment documentation. Outfalls reporting fewer than four visual assessments means no discharge occurred during one or more quarters.

**Provide a summary of your past year's corrective action and/or additional implementation measures (AIM) documentation (See Part 5.3 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Note that you must modify your SWPPP based on the corrective actions and deadlines required under Part 5. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.**

Please see Table 1 (attached) for a summary of corrective action documentation, which specifies the frequency of each of the following by site: (1) unauthorized release or discharge, (2) control measures needing maintenance, repair or replacement, (3) control measures that were inadequate to meet the non-numeric effluent limitations, (4) effluent limitation guidelines exceedances, (5) benchmark exceedances (AIM triggering events), and AIM Level at the end of the reporting period. All corrective actions were completed per the schedule provided in Part 5.1.3. LANL is in compliance with the permit.

**Attached files:**

| Name | Uploaded Date | Size |
|---|---|---|
| 2025 Annual Report Tables 1 and 2 FINAL 1.23.26.pdf (arptAttachment/970585) | 01/26/2026 | 81.76 KB |

Certification Information

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 gathered and evaluated 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 have no personal knowledge that the information submitted is other than 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.

**Certified By:** Terrill Lemke

**Certifier Title:** Team Leader

**Certifier Email:** tlemke@lanl.gov

**Certified On:** 01/27/2026 2:11 PM ET

**Table 1. Summary of Routine Facility Inspections, Other Walkdowns and Associated Corrective Actions**

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2025 and 12/31/2025 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-03-0029 Indoor TSD | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-03-0029 Machine Shop | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-03-0030 Warehouse | No Exposure | Annually | 1 | 10/06/25 | — | — | 2 | — | — | — |
| TA-03-0032 Metal Shop | No Exposure | Annually | 1 | 09/17/25 | — | — | — | — | — | — |
| TA-03-0034 Metal Shop | No Exposure | Annually | 1 | 09/17/25 | — | — | — | — | — | — |
| TA-03-0038 Metal Fabrication Shops | Active | Monthly | 12 | 1/14/25, 02/05/25, 03/20/25, 04/22/25, 05/30/25, 06/19/25, 07/30/25, 08/28/25, 09/29/25, 10/29/25, 11/20/25, 12/22/25 | — | — | 2 | — | — | Zn and Al- Baseline, NO3+NO2-N - AIM Level 1 |
| TA-03-0039 & 0102 Metal Shop | No Exposure | Annually | 3 | 02/25/25, 03/26/25, 09/17/25 | 2 | — | 1 | — | — | — |
| TA-03-0040, Room 130S Machine Shop | No Exposure | Annually | 1 | 09/17/25 | — | — | - | — | — | — |
| TA-03-0066 Sigma Complex | No Exposure | Annually | 2 | 08/26/25, 10/28/25 | 1 | — | 2 | — | — | — |
| TA-03-2206 Warehouse | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-09-0028 Heavy Equipment Maintenance | No Exposure | Annually | 2 | 05/21/25, 10/07/25 | 1 | — | — | — | — | — |
| TA-09-0214 Metal Fabrication Shop | Active | Monthly | 12 | 01/30/25, 02/03/25, 03/03/25, 04/02/25, 05/01/25, 06/02/25, 07/01/25, 08/21/25, 09/02/25, 10/09/25, 11/20/25, 12/18/25 | — | — | 1 | — | — | Baseline |
| TA-15-0313 Machine Shop | No Exposure | Annually | 1 | 10/7/25 | — | — | 1 | — | — | — |

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2025 and 12/31/2025 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-16 Stockpile Area | Active | Quarterly | 5 | 03/03/25, 06/02/25, 09/05/25, 11/12/25, 12/15/25 | 1 | — | — | — | — | N/A |
| TA-22-0052 Machine Shop | No Exposure | Annually | 1 | 10/7/25 | — | — | 1 | — | — | — |
| TA-33-0113 Machine Shop | No Exposure | Annually | 1 | 09/10/25 | — | — | — | — | — | — |
| TA-35-0002 Machine Shop | No Exposure | Annually | 1 | 09/30/25 | — | — | — | — | — | — |
| TA-35-0125 Machine Shop | No Exposure | Annually | 1 | 09/30/25 | — | — | — | — | — | — |
| TA-35-0213 Target Fabrication Facility | No Exposure | Annually | 2 | 08/26/25, 09/30/25 | — | — | 1 | — | — | — |
| TA-46-0031 Machine Shop | No Exposure | Annually | 1 | 09/30/25 | — | — | — | — | — | — |
| TA-46-0077 Machine Shop | No Exposure | Annually | 1 | 09/30/25 | — | — | — | — | — | — |
| TA-46-0624 Warehouse | No Exposure | Annually | 2 | 10/06/25, 11/19/25 | 1 | — | 1 | — | — | — |
| TA-48-0008 Machine Shop | No Exposure | Annually | 1 | 09/30/25 | — | — | — | — | — | — |
| TA-50-0054 Machine Shop | No Exposure | Annually | 1 | 09/30/25 | — | — | — | — | — | — |
| TA-50-0069 WCRRF | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-53-0002 Machine Shop | No Exposure | Annually | 1 | 10/22/25 | — | — | — | — | — | — |
| TA-53-0016/0726 Machine Shop | No Exposure | Annually | 1 | 10/22/25 | — | — | — | — | — | — |
| TA-53-0026 Machine Shop | No Exposure | Annually | 1 | 10/22/25 | — | — | — | — | — | — |
| TA-54-0038 Indoor TSD | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-54-0038 Outdoor TSD | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-55 Outdoor TSD | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-55-0004 Indoor TSD | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-55-0005 Warehouse | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-55-0268 Warehouse | No Exposure | Annually | 1 | 09/15/25 | 1 | — | — | — | — | — |
| TA-55-0314 Warehouse | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-55-0355 TSD | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2025 and 12/31/2025 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|---|---|---|---|---|---|---|---|---|---|
| TA-55-0430 Metal Shop | No Exposure | Annually | 1 | 09/15/25 | — | — | 1 | — | — | — |
| TA-55-0432 Warehouse | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-60 Asphalt Batch Plant | Active | Monthly | 13 | 01/06/25, 02/10/25, 03/17/25, 04/01/25, 05/12/25, 06/04/25, 06/10/25, 07/07/25, 08/06/25, 09/02/25, 10/01/25, 11/03/25, 12/19/25 | 1 | — | — | — | — | Baseline |
| TA-60 Material Recycling Facility | Active | Monthly | 12 | 01/06/25, 02/12/25, 03/19/25, 04/07/25, 05/13/25, 06/16/25, 07/14/25, 08/11/25, 09/08/25, 10/03/25, 11/12/25, 12/19/25 | — | — | 1 | — | — | N/A |
| TA-60 Roads and Grounds and TA-61 Asphalt Staging Area | Active | Monthly | 12 | 01/24/25, 02/24/25, 03/24/25, 04/23/25, 05/20/25, 06/23/25, 07/22/25, 08/25/25, 09/22/25, 10/16/25, 11/17/25, 12/22/25 | 2 | 1 | 14 | — | — | N/A |
| TA-60-0001 Heavy Equipment Yard | Active | Monthly | 15 | 1/14/25, 02/04/25, 03/10/25, 04/07/25, 05/21/25, 05/30/25, 06/11/25, 06/23/25, 07/30/25, 08/28/25, 09/30/25, 10/24/25, 10/29/25, 11/20/25, 12/22/25 | 4 | — | 3 | — | 1 | Zn and Al – Baseline, NO3+NO2-N – Level 1 |
| TA-60-0002 Warehouse | Active | Monthly | 12 | 01/14/25, 02/04/25, 03/11/25, 04/22/25, 05/30/25, 06/18/25, 07/30/25, 08/28/25, 09/30/25, 10/29/25, 11/20/25, 12/22/25 | 1 | — | — | — | — | N/A |
| TA-63 Transuranic Waste Facility TSDs | No Exposure | Annually | 1 | 09/15/25 | — | — | — | — | — | — |
| TA-69 Wood Yard | Active | Quarterly | 4 | 03/18/25, 06/23/25, 09/25/25, 12/15/25 | — | — | — | — | — | Baseline |

TA = Technical Area
TSD = Treatment, storage and disposal
WCRRF = Waste Characterization, Reduction, and Repackaging Facility
AIM = Additional Implementation Measures
N/A = Not applicable. Sector-specific requirements do not include benchmark monitoring.

**Table 2. Summary of Quarterly Visual Assessments**

| Facility | Outfall | Outfall Type | Visual Assessments Performed between 1/1/2025 and 12/31/2025 | Visual Assessment Dates | Evidence of Pollutants Observed |
|---|---|---|---|---|---|
| TA-03-0038 Metal Fabrication Shops | 076 | Monitored | 3 | 06/02/25, 07/22,25, 11/20/25 | None |
| | 077 | Monitored | 0 | — | None |
| TA-09-0214 Metal Fabrication Shop | 079 | Monitored | 0 | — | None |
| TA-16 Stockpile Area | 078 | Monitored | 3 | 05/06/25, 08/26/25, 10/14/25 | None |
| TA-60 Asphalt Batch Plant | 043 | Monitored | 0 | — | None |
| TA-60 Material Recycling Facility | 029 | Monitored | 3 | 05/05/25, 07/22/25, 10/13/25 | None |
| TA-60 Roads and Grounds and TA-61 Asphalt Staging Area | 031 | Monitored | 3 | 05/05/25, 08/20/25, 10/14/25 | None |
| | 030 | SIDP to 031 | 3 | 04/01/25, 07/22/25, 10/14/25 | None |
| | 032 | Monitored | 3 | 05/05/25, 07/08/25, 10/16/25 | None |
| | 033 | SIDP to 032 | 4 | 01/24/25, 04/01/25, 07/22/25, 10/14/25 | None |
| | 034 | SIDP to 032 | 3 | 04/01/25, 07/22/25, 10/14/25 | None |
| | 035 | SIDP to 032 | 4 | 01/24/25, 04/01/25, 07/22/25, 10/14/25 | None |
| | 037 | Monitored | 3 | 05/06/25, 08/25/25, 10/16/25 | None |
| | 039 | Monitored | 0 | — | None |
| | 042 | Monitored | 3 | 05/05/25, 08/20/25, 10/14/25 | None |
| | 084 | Monitored | 3 | 05/06/25, 08/26/25, 10/14/25 | None |
| TA-60-0001 Heavy Equipment Yard | 022 | Monitored | 3 | 05/05/25, 07/08/25, 10/14/25 | None |
| | 021 | SIDP to 022 | 4 | 01/24/25, 04/01/25, 07/08/25, 10/09/25 | None |
| | 023 | SIDP to 022 | 3 | 04/01/25, 08/20/25, 10/09/25 | None |
| | 024 | SIDP to 022 | 4 | 01/24/25, 04/01/25, 07/08/25, 10/09/25 | None |
| | 025 | SIDP to 022 | 4 | 01/24/25, 04/01/25, 07/08/25, 10/14/25 | None |
| TA-60-0002 Warehouse | 026 | Monitored | 3 | 05/05/25, 07/08/25, 10/13/25 | None |
| | 027 | SIDP to 026 | 3 | 04/01/25, 07/08/25, 10/09/25 | None |
| | 028 | SIDP to 026 | 4 | 01/24/25, 04/01/25, 08/20/25, 10/09/25 | None |
| | 075 | Monitored | 2 | 07/23/25, 10/16/25 | None |
| TA-69 Wood Yard | 085 | Monitored | 3 | 04/12/25, 07/08/25, 10/14/25 | None |

TA = Technical Area
SIDP = Substantially Identical Discharge Point

## ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

Los Alamos National Laboratory

# Work Order MSGP-RI-65268

MSGP Routine Inspection
Printed 10/4/2021 - 4:34 PM (Duplicate Copy)

## Maintenance Details

**Requested By:** Banar, Alethea on 9/1/2021 11:20:00 AM
**Taken By:** Banar, Alethea
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 3/23/2021
**Project:** Routine Facility Inspections July 2021 (P-MSGP-RI-5500)

**Target:** 9/30/2021
**Priority/Type:** / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
**TA-16 Stockpile Area**

**Contact:** Banar, Alethea
**Phone:** 699-5836

**Reason:** 2021 Quarterly Inspection (July-Aug-Sept)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | ☐ | ☐ | ☒ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |

| | | | | | |
|---|---|---|---|---|---|
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |

## Labor Report

**Completed:** 09/23/2021

**Report:** Kelkenny Bileen

| Signature / Name | Date | Signature / Name | Date |
|---|---|---|---|
| | 10/04/2021 | | |

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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".

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)**

Print name and title:_____

Signature:_____ Date:_____

# Los Alamos National Laboratory

## Work Order MSGP-RI-65269

MSGP Routine Inspection
Printed 11/16/2021 - 12:09 PM (Duplicate Copy)

### Maintenance Details

**Requested By:** Banar, Alethea on 10/4/2021 11:33:00 AM
**Taken By:** Banar, Alethea
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 6/18/2021
**Project:** Routine Facility Inspections October 2021 (P-MSGP-RI-5524)

**Target:** 12/31/2021
**Priority/Type:** / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
**TA-16 Stockpile Area**

**Contact:** Banar, Alethea
**Phone:** 699-5836

**Reason:** 2021 Quarterly Inspection (Oct-Nov-Dec)

### Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). **Comments: Partly cloudy 72 degrees** | | ☐ | ☐ | ☑ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☑ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☑ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☑ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☑ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☑ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☑ | ☐ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☑ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☑ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |

| | | | | | |
|---|---|---|---|---|---|
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☑ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☑ |

## Labor Report

**Completed:** 11/8/2021 3:30:00 PM

**Report:** Kelkenny Bileen
11/13/2021 - 178009: No deficiency found.

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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".

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)**

Print name and title: John Branch WFO-HE OM

Signature: John Branch Date: 11-16-2021

# Los Alamos National Laboratory

**Work Order MSGP-RI-65508**
MSGP Routine Inspection
Printed 12/17/2021 - 1:15 PM

## Maintenance Details

**Requested:** 12/17/2021 1:05:00 PM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 6/18/2021
**Project:** Routine Facility Inspections January 2022 (P-MSGP-RI-5544)

**Target:** 1/31/2022
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
**TA-16 Stockpile Area**

**Contact:**
**Phone:**

**Reason:** 2022 Quarterly Inspection (Jan-Feb-Mar)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | PARTLY SUNNY 9:44 am 32°F | ☐ | ☐ | ☒ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, | | ☐ | ☒ | ☐ |

| | | | | | |
|---|---|---|---|---|---|
| | and operating)? If "No" describe. | | | | |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |

## Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|---|---|---|---|---|---|
| Kelkenny Bileen | 1/1/2022 / 14 | | | | |

## Labor Report

**Completed:** 10:00 am

**Report:**

Signature / Name — 02/23/22 Date — Signature / Name — Date

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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".

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)**

Print name and title: John Branch WFO-HE OM

Signature: John Branch Date: 3-1-2022

# Los Alamos National Laboratory

**Work Order MSGP-RI-65769**
MSGP Routine Inspection
Printed 4/5/2022 - 4:58 PM

## Maintenance Details

**Requested:** 4/5/2022 4:47:00 PM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 2/28/2022
**Project:** Routine Facility Inspections April 2022 (P-MSGP-RI-5567)

**Target:** 4/28/2022
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
TA-16 Stockpile Area

**Contact:**
**Phone:**

**Reason:** 2022 Quarterly Inspection (Apr-May-June)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | SUNNY 64°F | ☐ | ☐ | ☒ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If | | ☐ | ☒ | ☐ |

| | | | | | |
|---|---|---|---|---|---|
| | "No" describe. | | | | |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |
| | | | | | |

## Labor

| Labor | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|---|---|---|---|---|
| | | | | |

## Labor Report

**Completed:** 12:16pm

**Report:**

| Signature / Name | Date | Signature / Name | Date |
|---|---|---|---|
| Kelleenny Bleem | 4/21/22 | | |

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)**

Print name and title: John Branch

Signature: _____ Date: 4-21-2022

# Los Alamos National Laboratory

**Work Order MSGP-RI-66027**

MSGP Routine Inspection
Printed 7/5/2022 - 11:25 AM

## Maintenance Details

**Requested:** 6/30/2022 1:57:00 PM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 4/21/2022
**Project:** Routine Facility Inspections July 2022 (P-MSGP-RI-5588)

**Target:** 09/30/2022
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
TA-16 Stockpile Area

**Contact:**
**Phone:**

**Reason:** 2022 Quarterly Inspection (July-Aug-Sept)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). Sunny 65° | | ☐ | ☐ | ☒ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, | | ☐ | ☐ | ☒ |

| | | | | | |
|---|---|---|---|---|---|
| | and operating)? If "No" describe. | | | | |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |
| | | | | | |

## Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|---|---|---|---|---|---|
| Kelkenny Bileen | 6/30/2022 / 1 | | | | |

## Labor Report

**Completed:** 1350

**Report:**

Kelkenny Bileen 09/06/22

Signature / Name — Date — Signature / Name — Date

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information contained herein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)**

Print name and title: ROBERT SWICKLEY, DFOD WFO

Signature: [signature] Date: 9/6/22

# Los Alamos National Laboratory

**Work Order MSGP-RI-66165**
MSGP Routine Inspection
Printed 12/22/2022 - 2:04 PM (Duplicate Copy)

## Maintenance Details

**Requested:** 9/29/2022 3:53:00 PM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 9/6/2022
**Project:** Routine Facility Inspections October 2022 (P-MSGP-RI-5602)

**Target:** 12/31/2022
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
TA-16 Stockpile Area

**Contact:**
**Phone:**

**Reason:** 2022 Quarterly Inspection (Oct-Nov-Dec)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°).<br>**Comments: 40 degrees Sunny** | | ☐ | ☐ | ☑ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☑ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☑ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☑ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☑ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☑ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☑ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☑ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☑ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.<br>**Comments: See Labor Report** | | ☒ | ☐ | ☐ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |

| | | | | | |
|---|---|---|---|---|---|
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☑ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☑ |

## Labor Report

**Completed:** 1000; 12/20/22

**Report:** CA# 2203; Stockpile spoils were partially staged outside of the bermed area and partially off the asphalt pad. 12/21/22 Stockpile relocated onto asphalt. Corrective Action Closed.

Kelkenny Bileen, DEP

| Signature / Name | Date | Signature / Name | Date |
|---|---|---|---|
| Kelkenny Bileen Digitally signed by Kelkenny Bileen Date: 2022.12.22 14:27:06 -07'00' | 12/22/22 | | |

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)**

Print name and title: Derek Clark WFO FOD

Signature: [signature] Date: 22DEC22

# Los Alamos National Laboratory

## Work Order MSGP-RI-66351

MSGP Routine Inspection
Printed 1/5/2023 - 12:05 PM

### Maintenance Details

**Requested:** 1/5/2023 11:48:00 AM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 9/6/2022
**Project:** Routine Facility Inspections January 2023 (P-MSGP-RI-5620)

**Target:** 3/31/2023
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
TA-16 Stockpile Area

**Contact:**
**Phone:**

**Reason:** 2023 Quarterly Inspection (Jan-Feb-March)

### Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | 58°F Sunny/Partly Cloudy | ☐ | ☐ | ☒ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |

| | | | | | |
|---|---|---|---|---|---|
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |

## Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|---|---|---|---|---|---|
| Kelkenny Bileen | 1/5/2023 / 1 | | | | |

## Labor Report

**Completed:** 1630

**Report:**

Bileen / Kelkenny Bileen — Signature / Name
3/30/23 — Date
Signature / Name
Date

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)**

Print name and title: Allison Ellerson WFO HE Operations Group Leader

Signature: Allison Ellerson Date: 3/30/23

# Los Alamos National Laboratory

**Work Order MSGP-RI-66551**
MSGP Routine Inspection
Printed 4/3/2023 - 10:52 AM

## Maintenance Details

**Requested:** 4/3/2023 10:42:00 AM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 3/30/2023
**Project:** Routine Facility Inspections April 2023 (P-MSGP-RI-5639)

**Target:** 6/30/2023
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
**TA-16 Stockpile Area**

**Contact:**
**Phone:**

**Reason:** 2023 Quarterly Inspection (April-May-June)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). Sunny, 82°F | | ☐ | ☐ | ☐ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |

| | | | | | |
|---|---|---|---|---|---|
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| **Non-Compliance** | | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| **Additional Control Measures** | | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |
| | | | | | |

## Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|---|---|---|---|---|---|
| Kelkenny Bileen | 4/3/2023 / 1 | 07/18/23 | | | |

## Labor Report

**Completed:** 10:15 AM

**Report:**

Ashley Torres / Ashley Torres 07/18/23
Signature / Name Date Signature / Name Date

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)**

Print name and title: Allison Ellerson WFO-HE Ops Manager

Signature: [signature] Date: 7/18/23

# MSGP Record Print - Non-Employee Related Questionnaire (Clone)

## Questionnaire

### Details

| | | | |
|---|---|---|---|
| **Date Of Response *** | 09/20/2023 | **Questionnaire *** | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environment Inspection/Survey Program | **QRHId** | 655 |
| **Location** | TA-16 Stockpile Area(MSGP-0053) | **Source Id** | MSGP 2023 TA16 SA |
| **Created By** | Torres, Ashley (361773) | | |
| **Created by, used for transfer to EDRMS** | Created By. Full Name | | |

### Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

Clear skies, sunny, 57 degrees Fahrenheit

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

· Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

· N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

· Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

- Yes

**7.**

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

- Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

- Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

- Earthen Berm 1600103010001
- Earthen Berm 1600103010002
- Earthen Berm 1600103010003

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

· N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

· Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

· Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

· N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

· Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

· Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

· Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

· N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No" describe.**

Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describeadditional control measures needed.**

Yes

**32. Additional information:**

East pond requires maintenance—the pond is full and needs to be emptied.

**33. Date inspection completed.**

09/19/2023

**34. Time inspection completed.**

10:05am

**35. Select inspector name.**

Torres, Ashley

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**




**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**
**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:**
ANDREW SALAZAR TA-16 OPS MANAGER

**39. Signature:**

205293

**40. Date:** 9/25/23

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Documents

View Documents for this Questionnaire

| Description | Document Type | Document Date |
|---|---|---|

# MSGP Record Print - Non-Employee Related Questionnaire (Clone)

## Questionnaire

### Details

| | | | |
|---|---|---|---|
| **Date Of Response *** | 12/05/2023 | **Questionnaire *** | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environment Inspection/Survey Program | **QRHId** | 937 |
| **Location** | TA-16 Stockpile Area(MSGP-0053) | **Source Id** | MSGP 2023 TA16 SA |
| **Created By** | Wheeler, Holly (118432) | | |
| **Created by, used for transfer to EDRMS** | Wheeler, Holly | | |

### Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

Sunny, 49 degrees F.

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

- Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

- N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

- Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

- Yes

**7.**

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

- Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

- Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

- Earthen Berm 1600103010001
- Earthen Berm 1600103010002
- Earthen Berm 1600103010003

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No" describe.**

- Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.**

- Yes

**32. Additional information:**

**33. Date inspection completed.**

12/05/2023

**34. Time inspection completed.**

1410

**35. Select inspector name.**

Torres, Ashley

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**

**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:**
Andrew Salazar Operations Manager

**39. Signature:**

**40. Date:** 12/6/23

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Documents

View Documents for this Questionnaire

| Description | Document Type | Document Date |
|---|---|---|

Los Alamos National Laboratory

# Work Order MSGP-RI-65268

MSGP Routine Inspection
Printed 10/4/2021 - 4:34 PM (Duplicate Copy)

## Maintenance Details

**Requested By:** Banar, Alethea on 9/1/2021 11:20:00 AM
**Taken By:** Banar, Alethea
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 3/23/2021
**Project:** Routine Facility Inspections July 2021 (P-MSGP-RI-5500)

**Target:** 9/30/2021
**Priority/Type:** / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
**TA-16 Stockpile Area**

**Contact:** Banar, Alethea
**Phone:** 699-5836

**Reason:** 2021 Quarterly Inspection (July-Aug-Sept)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | ☐ | ☐ | ☒ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |

| | | | | | |
|---|---|---|---|---|---|
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |

## Labor Report

**Completed:** 09/23/2021

**Report:** Kelkenny Bileen

Kelkenny Bileen Digitally signed by Kelkenny Bileen DN: cn=Kelkenny Bileen, o=Environmental Compliance Program, ou=EPC-CP, email=kbileen@lanl.gov, c=US Date: 2021.10.04 16:48:32 -06'00'

| Signature / Name | Date | Signature / Name | Date |
|---|---|---|---|
| | 10/04/2021 | | |

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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".

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)**

Print name and title:_____

Signature: JOHN BRANCH (Affiliate) Digitally signed by JOHN BRANCH (Affiliate) Date: 2021.10.05 07:15:48 -06'00' Date:_____

# Los Alamos National Laboratory

## Work Order MSGP-RI-65269

MSGP Routine Inspection
Printed 11/16/2021 - 12:09 PM (Duplicate Copy)

### Maintenance Details

**Requested By:** Banar, Alethea on 10/4/2021 11:33:00 AM
**Taken By:** Banar, Alethea
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 6/18/2021
**Project:** Routine Facility Inspections October 2021 (P-MSGP-RI-5524)

**Target:** 12/31/2021
**Priority/Type:** / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
**TA-16 Stockpile Area**

**Contact:** Banar, Alethea
**Phone:** 699-5836

**Reason:** 2021 Quarterly Inspection (Oct-Nov-Dec)

### Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). **Comments: Partly cloudy 72 degrees** | | ☐ | ☐ | ☑ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☑ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☑ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☑ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☑ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☑ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☑ | ☐ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☑ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☑ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |

| | | | | | |
|---|---|---|---|---|---|
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☑ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☑ |

## Labor Report

**Completed:** 11/8/2021 3:30:00 PM

**Report:** Kelkenny Bileen
11/13/2021 - 178009: No deficiency found.

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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".

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)**

Print name and title: John Branch WFO-HE OM

Signature: John Branch Date: 11-16-2021

# Los Alamos National Laboratory

**Work Order MSGP-RI-65508**
MSGP Routine Inspection
Printed 12/17/2021 - 1:15 PM

## Maintenance Details

**Requested:** 12/17/2021 1:05:00 PM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 6/18/2021
**Project:** Routine Facility Inspections January 2022 (P-MSGP-RI-5544)

**Target:** 1/31/2022
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
**TA-16 Stockpile Area**

**Contact:**
**Phone:**

**Reason:** 2022 Quarterly Inspection (Jan-Feb-Mar)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | PARTLY SUNNY 9:44 am 32°F | ☐ | ☐ | ☒ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, | | ☐ | ☒ | ☐ |

| | | | | | |
|---|---|---|---|---|---|
| | and operating)? If "No" describe. | | | | |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |

## Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|---|---|---|---|---|---|
| Kelkenny Bileen | 1/1/2022 / 14 | | | | |

## Labor Report

**Completed:** 10:00 am

**Report:**

Signature / Name — 02/23/22 Date — Signature / Name — Date

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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".

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)**

Print name and title: John Branch WFO-HE OM

Signature: John Branch Date: 3-1-2022

# Los Alamos National Laboratory

**Work Order MSGP-RI-65769**
MSGP Routine Inspection
Printed 4/5/2022 - 4:58 PM

## Maintenance Details

**Requested:** 4/5/2022 4:47:00 PM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 2/28/2022
**Project:** Routine Facility Inspections April 2022 (P-MSGP-RI-5567)

**Target:** 4/28/2022
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
TA-16 Stockpile Area

**Contact:**
**Phone:**

**Reason:** 2022 Quarterly Inspection (Apr-May-June)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | SUNNY 64°F | ☐ | ☐ | ☒ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If | | ☐ | ☒ | ☐ |

| | | | | | |
|---|---|---|---|---|---|
| | "No" describe. | | | | |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |
| | | | | | |

## Labor

| Labor | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|---|---|---|---|---|
| | | | | |

## Labor Report

**Completed:** 12:16pm

**Report:**

| Signature / Name | Date | Signature / Name | Date |
|---|---|---|---|
| Kelleenny Bleem | 4/21/22 | | |

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)**

Print name and title: John Branch

Signature: _____ Date: 4-21-2022

# Los Alamos National Laboratory

**Work Order MSGP-RI-66027**

MSGP Routine Inspection
Printed 7/5/2022 - 11:25 AM

## Maintenance Details

**Requested:** 6/30/2022 1:57:00 PM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 4/21/2022
**Project:** Routine Facility Inspections July 2022 (P-MSGP-RI-5588)

**Target:** 09/30/2022
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
TA-16 Stockpile Area

**Contact:**
**Phone:**

**Reason:** 2022 Quarterly Inspection (July-Aug-Sept)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). Sunny 65° | | ☐ | ☐ | ☒ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, | | ☐ | ☐ | ☒ |

| | | | | | |
|---|---|---|---|---|---|
| | and operating)? If "No" describe. | | | | |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |
| | | | | | |

## Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|---|---|---|---|---|---|
| Kelkenny Bileen | 6/30/2022 / 1 | | | | |

## Labor Report

**Completed:** 1350

**Report:**

Kelkenny Bileen 09/06/22

Signature / Name — Date — Signature / Name — Date

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information contained herein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)**

Print name and title: ROBERT SWICKLEY, DFOD WFO

Signature: [signature] Date: 9/6/22

# Los Alamos National Laboratory

**Work Order MSGP-RI-66165**
MSGP Routine Inspection
Printed 12/22/2022 - 2:04 PM (Duplicate Copy)

## Maintenance Details

**Requested:** 9/29/2022 3:53:00 PM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 9/6/2022
**Project:** Routine Facility Inspections October 2022 (P-MSGP-RI-5602)

**Target:** 12/31/2022
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
TA-16 Stockpile Area

**Contact:**
**Phone:**

**Reason:** 2022 Quarterly Inspection (Oct-Nov-Dec)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°).<br>**Comments: 40 degrees Sunny** | | ☐ | ☐ | ☑ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☑ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☑ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☑ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☑ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☑ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☑ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☑ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☑ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☑ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.<br>**Comments: See Labor Report** | | ☒ | ☐ | ☐ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |

| | | | | | |
|---|---|---|---|---|---|
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☑ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☑ | ☐ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☑ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☑ |

## Labor Report

**Completed:** 1000; 12/20/22

**Report:** CA# 2203; Stockpile spoils were partially staged outside of the bermed area and partially off the asphalt pad. 12/21/22 Stockpile relocated onto asphalt. Corrective Action Closed.

Kelkenny Bileen, DEP

| Signature / Name | Date | Signature / Name | Date |
|---|---|---|---|
| Kelkenny Bileen Digitally signed by Kelkenny Bileen Date: 2022.12.22 14:27:06 -07'00' | 12/22/22 | | |

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)**

Print name and title: Derek Clark WFO FOD

Signature: [signature] Date: 22DEC22

# Los Alamos National Laboratory

## Work Order MSGP-RI-66351

MSGP Routine Inspection
Printed 1/5/2023 - 12:05 PM

### Maintenance Details

**Requested:** 1/5/2023 11:48:00 AM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 9/6/2022
**Project:** Routine Facility Inspections January 2023 (P-MSGP-RI-5620)

**Target:** 3/31/2023
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
TA-16 Stockpile Area

**Contact:**
**Phone:**

**Reason:** 2023 Quarterly Inspection (Jan-Feb-March)

### Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | 58°F Sunny/Partly Cloudy | ☐ | ☐ | ☒ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |

| | | | | | |
|---|---|---|---|---|---|
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Non-Compliance** | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Additional Control Measures** | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |

## Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|---|---|---|---|---|---|
| Kelkenny Bileen | 1/5/2023 / 1 | | | | |

## Labor Report

**Completed:** 1630

**Report:**

Bileen / Kelkenny Bileen — Signature / Name
3/30/23 — Date
Signature / Name
Date

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)**

Print name and title: Allison Ellerson WFO HE Operations Group Leader

Signature: Allison Ellerson Date: 3/30/23

# Los Alamos National Laboratory

**Work Order MSGP-RI-66551**
MSGP Routine Inspection
Printed 4/3/2023 - 10:52 AM

## Maintenance Details

**Requested:** 4/3/2023 10:42:00 AM
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
**Last PM:** 3/30/2023
**Project:** Routine Facility Inspections April 2023 (P-MSGP-RI-5639)

**Target:** 6/30/2023
**Priority/Type:** Normal / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
**TA-16 Stockpile Area**

**Contact:**
**Phone:**

**Reason:** 2023 Quarterly Inspection (April-May-June)

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **Weather Information** | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). Sunny, 82°F | | ☐ | ☐ | ☐ |
| | **Within the Facility Boundary** | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | ☐ | ☐ | ☒ |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | ☐ | ☒ | ☐ |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | ☐ | ☐ | ☒ |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | ☐ | ☐ | ☒ |
| | **Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)** | | | | |
| 90 | **Monitored Outfall [078]** Free of Evidence of Erosion? If "No", describe. | | ☐ | ☐ | ☒ |
| 100 | **Monitored Outfall [078]** Flow Dissipation Devices Operating Effectively? If "No", describe. | | ☐ | ☐ | ☒ |
| 110 | **Monitored Outfall [078]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | ☐ | ☐ | ☒ |
| 120 | **Monitored Outfall [078]** Free of any unauthorized non-stormwater discharges? If "No" describe. | | ☐ | ☐ | ☒ |
| | **Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).** | | | | |
| 140 | **Earthen Berm [1600103010001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 150 | **Earthen Berm [1600103010002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| 160 | **Earthen Berm [1600103010003]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | ☐ | ☐ | ☒ |
| | **Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).** | | | | |
| 180 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 190 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 200 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 210 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 220 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 230 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 240 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |

| | | | | | |
|---|---|---|---|---|---|
| 250 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 260 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 270 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 280 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 290 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 300 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☒ | ☐ |
| 310 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 320 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 330 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| 340 | **Sector P [16001-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | ☐ | ☐ | ☒ |
| **Non-Compliance** | | | | | |
| 360 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | | ☐ | ☐ | ☒ |
| **Additional Control Measures** | | | | | |
| 380 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | | ☐ | ☐ | ☒ |
| | | | | | |

## Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|---|---|---|---|---|---|
| Kelkenny Bileen | 4/3/2023 / 1 | 07/18/23 | | | |

## Labor Report

**Completed:** 10:15 AM

**Report:**

Ashley Torres / Ashley Torres 07/18/23
Signature / Name Date Signature / Name Date

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)**

Print name and title: Allison Ellerson WFO-HE Ops Manager

Signature: [signature] Date: 7/18/23

# MSGP Record Print - Non-Employee Related Questionnaire (Clone)

## Questionnaire

### Details

| | | | |
|---|---|---|---|
| **Date Of Response *** | 09/20/2023 | **Questionnaire *** | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environment Inspection/Survey Program | **QRHId** | 655 |
| **Location** | TA-16 Stockpile Area(MSGP-0053) | **Source Id** | MSGP 2023 TA16 SA |
| **Created By** | Torres, Ashley (361773) | | |
| **Created by, used for transfer to EDRMS** | Created By. Full Name | | |

### Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

Clear skies, sunny, 57 degrees Fahrenheit

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

· Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

· N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

· Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

- Yes

**7.**

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

- Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

- Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

- Earthen Berm 1600103010001
- Earthen Berm 1600103010002
- Earthen Berm 1600103010003

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

· N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

· Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

· Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

· N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

· Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

· Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

· Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

· N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No" describe.**

Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describeadditional control measures needed.**

Yes

**32. Additional information:**

East pond requires maintenance—the pond is full and needs to be emptied.

**33. Date inspection completed.**

09/19/2023

**34. Time inspection completed.**

10:05am

**35. Select inspector name.**

Torres, Ashley

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**




**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**
**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:**
ANDREW SALAZAR TA-16 OPS MANAGER

**39. Signature:**

205293

**40. Date:** 9/25/23

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# MSGP Record Print - Non-Employee Related Questionnaire (Clone)

## Questionnaire

### Details

| | | | |
|---|---|---|---|
| **Date Of Response *** | 12/05/2023 | **Questionnaire *** | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environment Inspection/Survey Program | **QRHId** | 937 |
| **Location** | TA-16 Stockpile Area(MSGP-0053) | **Source Id** | MSGP 2023 TA16 SA |
| **Created By** | Wheeler, Holly (118432) | | |
| **Created by, used for transfer to EDRMS** | Wheeler, Holly | | |

### Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

Sunny, 49 degrees F.

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

- Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

- N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

- Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

- Yes

**7.**

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

- Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

- Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

- Earthen Berm 1600103010001
- Earthen Berm 1600103010002
- Earthen Berm 1600103010003

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No" describe.**

- Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.**

- Yes

**32. Additional information:**

**33. Date inspection completed.**

12/05/2023

**34. Time inspection completed.**

1410

**35. Select inspector name.**

Torres, Ashley

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**

**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:**
Andrew Salazar Operations Manager

**39. Signature:**

**40. Date:** 12/6/23

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# MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

## Details

| | | | |
|---|---|---|---|
| **Date Of Response *** | 03/26/2024 | **Questionnaire *** | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environment Inspection/Survey Program | **QRHId** | 1465 |
| **Location** | TA-16 Stockpile Area(MSGP-0053) | **Source Id** | MSGP 2024 TA16 SA |
| **Created By** | Torres, Ashley (361773) | | |
| **Created by, used for transfer to EDRMS** | Torres, Ashley | | |

## Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

Cloudy, 37 Degrees F

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

- Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

- N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

- Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

- Yes

**7.**

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

- Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

- Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

- Earthen Berm 1600103010001
- Earthen Berm 1600103010002
- Earthen Berm 1600103010003

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No" describe.**

- Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.**

- Yes

**32. Additional information:**

**33. Date inspection completed.**

03/26/2024

**34. Time inspection completed.**

2:30 PM

**35. Select inspector name.**

Torres, Ashley

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**

**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:**
Allison Ellerson Operations Manager

**39. Signature:**


**40. Date:**
3/26/24

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**Documents**

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# Non-Employee Related Questionnaire ⓘ

**Questionnaire**

Details

| | | | |
|---|---|---|---|
| **Date Of Response *** | 07/01/2024 | **Questionnaire *** | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environment Inspection/Survey Program | **Source Id** | MSGP 2024 TA16 SA |
| **In Progress** | | | |
| **Total Score** | | | |

Employee Work Demographic

Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

90 degree F

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

· Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

· N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

· Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

- Yes

**7.**

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

- Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

- Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

- Earthen Berm 1600103010001
- Earthen Berm 1600103010002
- Earthen Berm 1600103010003

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No" describe.**

Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.**

Yes

**32. Additional information:**

**33. Date inspection completed.**

06/28/2024

**34. Time inspection completed.**

1300

**35. Select inspector name.**

Bileen, Kelkenny

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**

**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:**

Derek Clark WFO FOD

**39. Signature:**




**40. Date:**

7/1/24

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# Non-Employee Related Questionnaire

Questionnaire

## Details

| | | | |
|---|---|---|---|
| **Date Of Response** * | 09/30/2024 | **Questionnaire** * | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environment Inspection/Survey Program | **Source Id** | MSGP 2024 TA16 SA |
| **In Progress** | ☐ | | |
| **Total Score** | | | |

## Employee Work Demographic

## Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

80 DEG F; Cloudy

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

- Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

- N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

- Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

- Yes

**7.**

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

- Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

- Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

- Earthen Berm 1600103010001
- Earthen Berm 1600103010002
- Earthen Berm 1600103010003

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No" describe.**

- Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.**

- Yes

**32. Additional information:**

**33. Date inspection completed.**

09/30/2024

**34. Time inspection completed.**

1330

**35. Select inspector name.**

Bileen, Kelkenny

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**

**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:** Donald Hyatt TA-16 Operations Manager

**39. Signature:** DONALD HYATT (Affiliate)

Digitally signed by DONALD HYATT (Affiliate)
Date: 2024.10.01 09:05:08 -06'00'

**40. Date:** 10/1/24

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# Non-Employee Related Questionnaire

Questionnaire

## Details

| | | | |
|---|---|---|---|
| **Date Of Response** * | 12/16/2024 | **Questionnaire** * | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environment Inspection/Survey Program | **Source Id** | MSGP 2024 TA16 SA |
| **In Progress** | ☐ | | |
| **Total Score** | | | |

## Employee Work Demographic

## Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

49 DEG & Sunny

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

- Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

- N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

- Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

- Yes

**7.**

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

- Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

- Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

- Earthen Berm 1600103010001
- Earthen Berm 1600103010002
- Earthen Berm 1600103010003
- Straw Wattles 1600103060005

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

Sandbags area was active.

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No" describe.**

- Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.**

- Yes

**32. Additional information:**

**33. Date inspection completed.**

12/16/2024

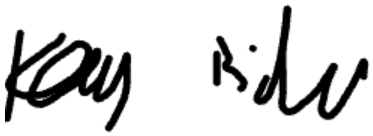
**34. Time inspection completed.**

1010

**35. Select inspector name.**

Bileen, Kelkenny

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**
**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:** Tim Tucker WFO-OPS Mgr

**39. Signature:** TIM TUCKER (Affiliate)

Digitally signed by TIM TUCKER (Affiliate)
Date: 2025.01.06 16:00:56 -07'00'

**40. Date:** 01/06/2025

Go To Top

# MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

**Questionnaire**

## Details

| | | | |
|---|---|---|---|
| **Date Of Response** * | 03/03/2025 | **Questionnaire** * | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environment Inspection/Survey Program | **QRHId** | 8890 |
| **Location** | TA-16 Stockpile Area(MSGP-0053) | **Source Id** | MSGP 2025 TA16 SA |
| **Created By** | Bileen, Kelkenny (178009) | | |

## Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

29 DEG F, CLOUDY & WINDY

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

· Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

· N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

· Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

· Yes

**7.**

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

- Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

- Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

- Earthen Berm 1600103010001
- Earthen Berm 1600103010002
- Earthen Berm 1600103010003
- Straw Wattles 1600103060005

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No" describe.**

- Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.**

- Yes

**32. Additional information:**

**33. Date inspection completed.**

03/03/2025

**34. Time inspection completed.**

12:30

**35. Select inspector name.**

Bileen, Kelkenny

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**
**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:**

**39. Signature:** DONALD HYATT (Affiliate)

Digitally signed by DONALD HYATT (Affiliate)
Date: 2025.04.23 18:04:53 -06'00'

**40. Date:**

Go To Top

## Documents

View Documents for this Questionnaire

| Description | Document Type | Document Date |
|---|---|---|

# Non-Employee Related Questionnaire ⓘ

Questionnaire

## Details

| | | | |
|---|---|---|---|
| **Date Of Response** * | 06/02/2025 | **Questionnaire** * | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environmental Questionnaire | **Source Id** | 13702 |
| **In Progress** | | | |
| **Total Score** | | | |

## Employee Work Demographic

## Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

72°F, Sunny, Clear

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

Yes

7.

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

Earthen Berm 1600103010001
Earthen Berm 1600103010002
Earthen Berm 1600103010003
Straw Wattles 1600103060005

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

N/A

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

Yes

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No" describe.**

Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.**

Yes

**32. Additional information:**

**33. Date inspection completed.**

06/02/2025

**34. Time inspection completed.**

1530

**35. Select inspector name.**

Bileen, Kelkenny

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**

**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:** Natalie Montoya

**39. Signature:** Natalie Montoya 3.13.2025

Digitally signed by Natalie Montoya 3.13.2025
Date: 2025.07.01 07:38:27 -06'00'

**40. Date:** 7/1/2025

Go To Top

# MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

Questionnaire

## Details

| | | | |
|---|---|---|---|
| **Date Of Response** * | 09/05/2025 | **Questionnaire** * | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environmental Questionnaire | **QRHId** | 15806 |
| **Location** | TA-16 Stockpile Area(MSGP-0053) | **Source Id** | 15806 |
| **Created By** | Bileen, Kelkenny (178009) | | |

## Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

75 DEG F and clear

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

Yes

7.

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

Earthen Berm 1600103010001
Earthen Berm 1600103010002
Earthen Berm 1600103010003
Straw Wattles 1600103060005

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

N/A

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

Yes

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and**

**operating)? If No, describe.**

N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No"**

**describe.**

Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.**

Yes

**32. Additional information:**

**33. Date inspection completed.**

09/05/2025

**34. Time inspection completed.**

1630

**35. Select inspector name.**

Bileen, Kelkenny

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**
**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:** Natalie Montoya Operations manager

**39. Signature:** Natalie Montoya 3.13.2025 Digitally signed by Natalie Montoya 3.13.2025 Date: 2025.09.24 15:19:31 -06'00'

**40. Date:** 9/24/2026

Go To Top

**Documents**

View Documents for this Questionnaire

| Description | Document Type | Document Date |
|---|---|---|

# MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

## Details

| | | | |
|---|---|---|---|
| **Date Of Response *** | 12/15/2025 | **Questionnaire *** | MSGP RFI TA-16 Stockpile Area (MSGP FAC TA-16 Stockpile Area) |
| **Source** | Environment Inspection/Survey Program | **QRHId** | 24989 |
| **Location** | TA-16 Stockpile Area(MSGP-0053) | **Source Id** | MSGP 2025 TA16 SA |
| **Created By** | Michaelis, Mona (376723) | | |

## Responses

**1. Describe the weather at time of inspection and document the temperature (F).**

44 degrees F, Partly Cloudy.

**2.**

**WITHIN THE FACILITY BOUNDARY**

**3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.**

- Yes

**4. Has a CAR been previously initiated for discharge identified in the previous question?**

- N/A

**5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.**

- Yes

**6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.**

- Yes

**7.**

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

**8. Monitored Outfall 078: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?**

- Yes

**9. Monitored Outfall 078: Are flow dissipation devices operating effectively?**

- Yes

**10.**

**CONTROL MEASURES**

**11. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)**

- Earthen Berm 1600103010001
- Earthen Berm 1600103010002
- Earthen Berm 1600103010003
- Straw Wattles 1600103060005

The straw wattles may need replacement/maintenance next year as they are nearing the 50%sediment cap due to the adjacent sediment pile.
Consider using some of the sediment to construct a more permanent control (berm)?

Earthen Berm 1600103010001 was recently repaired 11/17 request.

**12.**

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

**13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**16. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- N/A

**17. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

- Yes

**18. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**19. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**20. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**21. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**23. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**24. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**25. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**26. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**27. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.**

- Yes

**29. Sector P: Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.**

- N/A

**30. Free of incidents of observed non-compliance not already identified above? If "No" describe.**

- Yes

**31. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.**

- Yes

**32. Additional information:**

Participants: Jacob Knight, Kristan Long, and Mona Michaelis

**33. Date inspection completed.**

12/15/2025

**34. Time inspection completed.**

10:35

**35. Select inspector name.**

Michaelis, Mona

**36. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**37.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**
**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**38. Print name and title:** Natalie Montoya, Operations Manager

**39. Signature:** Natalie Montoya 3.13.2025

Digitally signed by Natalie Montoya 3.13.2025
Date: 2026.01.05 09:33:20 -07'00'

**40. Date:**

Go To Top

## Documents

View: Documents for this Questionnaire

| Description | Document Type | Document Date |
|---|---|---|

## ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS

# NMR050013 MSGP 2021
# TA-16 Stockpile Area

## Quarterly Visual Assessment Forms,
## First Quarter, July through September 2022

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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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.

Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader
Los Alamos National Laboratory

TERRILL LEMKE (Affiliate) Digitally signed by TERRILL LEMKE (Affiliate) Date: 2022.11.18 11:18:23 -07'00'

Manager Signature

| Facility Name | Sampling Station | Work Order # |
|---|---|---|
| TA-16 Stockpile Area | MSGP07801 | MSGP-66115 |

# Los Alamos National Laboratory

**Work Order MSGP-66115**
MSGP Monitoring Stations
Printed 10/4/2022 - 11:32 AM

## Maintenance Details

**Requested By:** Banar, Alethea on 8/3/2022 5:29:00 PM
**Taken By:** Banar, Alethea
**Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
**Last PM:** 8/2/2022
**Project:** Visual Assessments 7/1/22 (P-MSGP-5591)

**Target:** 9/30/2022
**Priority/Type:** / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
TA-16 Stockpile Area
Monitored Outfall (078)
**MSGP07801**

**Contact:** Banar, Alethea
**Phone:** 699-5836

**Reason:** MSGP Quarterly Visual Assessment

## Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|
| | **The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.** | | | | |
| | **Sample information** | | | | |
| 30 | Document the monitoring period. | July-Sept | ☐ | ☐ | ☑ |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 7/30/22 @ 17:54 | ☐ | ☐ | ☑ |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 7/30/22 @ 17:54 | ☐ | ☐ | ☑ |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 8/2/22 @ 10:31 | ☐ | ☐ | ☑ |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain .64 | ☐ | ☐ | ☑ |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | ☐ | ☐ | ☑ |
| | **Parameters** | | | | |
| 110 | Is sample colorless? If "Failed", describe. | Brown | ☒ | ☐ | ☐ |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | Musty | ☒ | ☐ | ☐ |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | Opaque | ☒ | ☐ | ☐ |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | Vegetation | ☒ | ☐ | ☐ |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | Fine | ☒ | ☐ | ☐ |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | Coarse | ☒ | ☐ | ☐ |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g.,'on the surface' or 'in the sample'). | | ☐ | ☐ | ☑ |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | ☐ | ☐ | ☑ |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | ☐ | ☐ | ☑ |

## Labor Report

**Completed:** 8/2/2022 10:31:00 AM

**Report:** Marwin Shendo

MSH — 8/8/2022

Signature / Name — Date — Signature / Name — Date

**I confirm the information as recorded is true, accurate and complete.**

## CERTIFICATION STATEMENT

"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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".

**(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)**

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date:

# NMR050013 MSGP 2021
# TA-16 Stockpile Area

## Quarterly Visual Assessment Form,
## First Quarter, July through September 2024

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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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.

Terrill W. Lemke, EPC-CP Stormwater Permitting/Compliance Team Leader
Los Alamos National Laboratory

TERRILL LEMKE (Affiliate)

Digitally signed by TERRILL LEMKE (Affiliate)
Date: 2024.12.12 17:19:57 -07'00'

Manager Signature

| Facility Name | Sampling Station | Inspection # |
|---|---|---|
| TA-16 Stockpile Area | MSGP07801 | MSGP-QRHId-3717 |

# MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

## Details

| | | | |
|---|---|---|---|
| **Date Of Response** * | 09/13/2024 | **Questionnaire** * | MSGP Visual Assessment (MSGP-VISUAL) |
| **Source** | Environment Inspection/Survey Program | **QRHId** | 3717 |
| **Location** | MSGP07801(MSGP-0085) | **Source Id** | MSGP 2024 VA JulSep |
| **Created By** | Shendo, Marwin (175810) | | |

## Responses

**1. Document the monitoring period (e.g., Jan-Feb-Mar).**

jul-sept

**2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).**

9/5/24 @15:59

**3. Document the Date/Time sample collected (mm/dd/yy hh:mm).**

9/5/24 @15:59

**4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).**

9/13/24 @15:10

**5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).**

rain, 1.23 inch

**6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.**

- Yes

**7. Color in sample? If Yes, describe.**

- Yes

Brown

**8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).**

- Yes

musty

**9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).**

- Yes

opaque

**10. Floating solids in sample? If Yes, describe if raw or waste material(s).**

- Yes

vegetation

**11. Settled solids in sample? If Yes, describe (e.g., fine, course).**

- Yes

fine

**12. Suspended solids in sample? If Yes, describe (e.g., fine, course).**

- Yes

coarse

**13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').**

- No

**14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).**

- No

**15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.**

- No

**16. Additional information:**

n/a

**17. Date inspection completed.**

09/13/2024

**18. Time inspection completed.**

15:10

**19. Select inspector name.**

Shendo, Marwin

**20. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**21.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**
**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader**

# NMR050013 MSGP 2021
# TA-16 Stockpile Area

## Quarterly Visual Assessment Forms,
## First Quarter, July through September 2025

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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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.

Terrill W. Lemke, EPC-CP Stormwater Permitting/Compliance Team Leader
Los Alamos National Laboratory

TERRILL LEMKE (Affiliate)
Digitally signed by TERRILL LEMKE (Affiliate)
Date: 2025.11.18 11:34:48 -07'00'

Manager Signature

| Facility Name | Sampling Station | Inspection # |
|---|---|---|
| TA-16 Stockpile Area | MSGP07801 | MSGP-QRHId-15311 |

# MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

## Details

| | | | |
|---|---|---|---|
| **Date Of Response** * | 08/26/2025 | **Questionnaire** * | MSGP Visual Assessment (MSGP-VISUAL) |
| **Source** | Environment Inspection/Survey Program | **QRHId** | 15311 |
| **Location** | MSGP07801(MSGP-0085) | **Source Id** | MSGP 2025 VA JulSep |
| **Created By** | Shendo, Marwin (175810) | | |

## Responses

**1. Document the monitoring period (e.g., Jan-Feb-Mar).**

jul-sept

**2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).**

8/24/25 @ 14:55

**3. Document the Date/Time sample collected (mm/dd/yy hh:mm).**

8/24/25 @ 14:55

**4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).**

8/26/25 @ 11:53

**5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).**

rain 1.07"

**6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.**

- Yes

**7. Color in sample? If Yes, describe.**

- Yes

brown

**8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).**

- Yes

musty

**9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).**

- Yes

cloudy

**10. Floating solids in sample? If Yes, describe if raw or waste material(s).**

- No

**11. Settled solids in sample? If Yes, describe (e.g., fine, course).**

- Yes

fine

**12. Suspended solids in sample? If Yes, describe (e.g., fine, course).**

- No

**13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').**

- No

**14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).**

- No

**15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.**

- No

**16. Additional information:**

n/a

**17. Date inspection completed.**

08/26/2025

**18. Time inspection completed.**

11:53

**19. Select inspector name.**

Shendo, Marwin

**20. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**21.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**
**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader**

**23. Signature and Date: (See signature on file)**

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## Documents

View Documents for this Questionnaire

| Description | Document Type | Document Date |
| --- | --- | --- |

# NMR050013 MSGP 2021
# TA-16 Stockpile Area

## Quarterly Visual Assessment Forms,
## Second Quarter, October through December 2025

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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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.

Terrill W. Lemke, EPC-CP Stormwater Permitting/Compliance Team Leader
Los Alamos National Laboratory

TERRILL LEMKE (Affiliate)
Digitally signed by TERRILL LEMKE (Affiliate)
Date: 2026.01.23 09:11:42 -07'00'

Manager Signature

| Facility Name | Sampling Station | Inspection # |
|---|---|---|
| TA-16 Stockpile Area | MSGP07801 | MSGP-QRHId-16515 |

# MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

## Details

| | | | |
|---|---|---|---|
| **Date Of Response** * | 10/14/2025 | **Questionnaire** * | MSGP Visual Assessment (MSGP-VISUAL) |
| **Source** | Environment Inspection/Survey Program | **QRHId** | 16515 |
| **Location** | MSGP07801(MSGP-0085) | **Source Id** | MSGP 2025 VA OctDec |
| **Created By** | Knight, Jacob (166552) | | |

## Responses

**1. Document the monitoring period (e.g., Jan-Feb-Mar).**

Oct-Dec

**2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).**

10/13/25 23:07

**3. Document the Date/Time sample collected (mm/dd/yy hh:mm).**

10/13/25 23:07

**4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).**

10/14/25 14:07

**5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).**

Rain 0.8 in.

**6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.**

- Yes

**7. Color in sample? If Yes, describe.**

- No

**8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).**

- No

**9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).**

- No

**10. Floating solids in sample? If Yes, describe if raw or waste material(s).**

- No

**11. Settled solids in sample? If Yes, describe (e.g., fine, course).**

- No

**12. Suspended solids in sample? If Yes, describe (e.g., fine, course).**

- No

**13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').**

- No

**14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).**

- No

**15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.**

- No

**16. Additional information:**

n/a

**17. Date inspection completed.**

10/14/2025

**18. Time inspection completed.**

14:07

**19. Select inspector name.**

Knight, Jacob

**20. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**21.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**
**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader**

**23. Signature and Date: (See signature on file)**

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## Documents

View Documents for this Questionnaire

| Description | Document Type | Document Date |
| --- | --- | --- |

# NMR050013 MSGP 2021
# TA-16 Stockpile Area

## Quarterly Visual Assessment Forms,
## Fourth Quarter, April through June 2025

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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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.

Terrill W. Lemke, EPC-CP Stormwater Permitting/Compliance Team Leader
Los Alamos National Laboratory

TERRILL LEMKE (Affiliate)

Digitally signed by TERRILL LEMKE (Affiliate)
Date: 2025.10.22 16:15:27 -06'00'

Manager Signature

| Facility Name | Sampling Station | Inspection # |
|---|---|---|
| MSGP Facility TA-16 Stockpile Area | MSGP07801 | MSGP-QRHId-11314 |

# MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

## Details

| | | | |
|---|---|---|---|
| **Date Of Response** * | 05/06/2025 | **Questionnaire** * | MSGP Visual Assessment (MSGP-VISUAL) |
| **Source** | Environment Inspection/Survey Program | **QRHId** | 11314 |
| **Location** | MSGP07801(MSGP-0085) | **Source Id** | MSGP 2025 VA AprJun |
| **Created By** | Shendo, Marwin (175810) | | |

## Responses

**1. Document the monitoring period (e.g., Jan-Feb-Mar).**

apr-jun

**2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).**

5/4/25 @ 14:42

**3. Document the Date/Time sample collected (mm/dd/yy hh:mm).**

5/4/25 @ 14:42

**4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).**

5/6/25 @ 14:59

**5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).**

rain 1.17"

**6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.**

- Yes

**7. Color in sample? If Yes, describe.**

- Yes

brown

**8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).**

- Yes

musty

**9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).**

- Yes

slightly cloudy

**10. Floating solids in sample? If Yes, describe if raw or waste material(s).**

- No

**11. Settled solids in sample? If Yes, describe (e.g., fine, course).**

- Yes

fine

**12. Suspended solids in sample? If Yes, describe (e.g., fine, course).**

- No

**13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').**

- No

**14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).**

- No

**15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.**

- No

**16. Additional information:**

n/a

**17. Date inspection completed.**

05/06/2025

**18. Time inspection completed.**

14:59

**19. Select inspector name.**

Shendo, Marwin

**20. Signature/Name**
**I confirm the information as recorded is true, accurate and complete.**



**21.**

**Certification Statement**

**"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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."**
**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr, EPC Group or Team Leader)**

**22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader**

**23. Signature and Date: (See signature on file)**

Go To Top

## Documents

View Documents for this Questionnaire

| Description | Document Type | Document Date |
| --- | --- | --- |

## ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION

# MSGP-CAR REPORT

| | |
|---|---|
| Corrective Action # | **2203** |
| FOD | WFO |
| MSGP Facility Description | TA-16 Stockpile Area |
| Inspection Date | 20-DEC-2022 10:00 |
| Date EPC Notified | 20-DEC-2022 10:00 |
| Specific Location | North of asphalt pad at the TA-16 Stockpile Area. |
| Inspector Name | WHEELER HOLLY L |
| Person Identifying Condition | WHEELER HOLLY L |
| Report Status | A new corrective action |
| Finding Description | Control measures inadequate to meet non-numeric effluent limitations |
| Finding Other Description | |
| Outfall | NA |
| Problem Description | Stockpiled spoils were partially staged outside of the bermed area and partially off the asphalt pad. |
| AIM Level | NA |
| AIM Exception | NA |
| Inspection Type | Routine facility inspection |
| Inspection Type Other Description | |
| Corrective Action Description | Push the spoils back onto the asphalt pad and stage within the bermed area to prevent off-site migration of sediment. 122022, Spoils (basecourse) has been relocated onto asphalt. |
| Was the problem identified at an outfall that has associated SIDPs? | N |
| SIDP's Affected | N/A |
| SIDP Action Taken | N/A |
| Does Corrective Action require modification of SWPPP? | N |
| Corrective Action Initiate Date | 20-DEC-2022 14:10 |
| Corrective Action Complete Date | 20-DEC-2022 15:10 |
| Corrective Action Expected Completion Date | 03-JAN-2023 17:00 |
| Days to Take Action | 0 |
| Days Open | 0 |
| Status Description | N/A |
| Date EPA Notified of Intent to Exceed 45 Days | |
| Date EPA Notiefied of Intent to Exceed 90 Days | |
| Baseline Date | |

# MSGP-CAR REPORT

| | |
|---|---|
| Corrective Action # | **2489** |
| FOD | WFO |
| MSGP Facility Description | TA-16 Stockpile Area |
| Inspection Date | 12-NOV-2025 10:50 |
| Date EPC Notified | 12-NOV-2025 10:52 |
| Specific Location | TA-16 Stockpile Area (Driveway area) |
| Inspector Name | MICHAELIS MONA M |
| Person Identifying Condition | |
| Report Status | A new corrective action |
| Finding Description | Unauthorized release or discharge |
| Parameter | NA |
| Outfall | NA |
| Problem Description | On 11/12/25 EPC-CP DEPs were notified by the FOD Duty Officer of a release of hydraulic oil from a skid steer performing work at the TA-16 Stockpile (near TA-16-280). The release was estimated at 2 cups and occurred on asphalt. |
| AIM Level | NA |
| AIM Exception | NA |
| Inspection Type | Other (describe) : |
| Inspection Type Other Description | Non-routine |
| Corrective Action Description | The skid was placed in a safe configuration and transported to the shop for maintenance. Contaminated base coarse was collected along with rags used to wipe off the machinery and dispositioned to the WMC. DEPs applied Microblaze to the stained asphalt. |
| Was the problem identified at an outfall that has associated SIDPs? | |
| SIDP's Affected | |
| SIDP Action Taken | |
| Does Corrective Action require modification of SWPPP? | N |
| Corrective Action Initiate Date | 12-NOV-2025 10:50 |
| Corrective Action Complete Date | 12-NOV-2025 11:45 |
| Corrective Action Expected Completion Date | |
| Days to Take Action | 0 |
| Days Open | 0 |
| Status Description | |
| Date EPA Notified of Intent to Exceed 45 Days | |
| Date EPA Notified of Intent to Exceed 90 Days | |
| Baseline Date | |

# CERTIFICATION FOR CORRECTIVE ACTIONS

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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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.

**Printed Name:** Derek W. Clark **Title:** WFO-FOD

**Signature:** DEREK CLARK (Affiliate) Digitally signed by DEREK CLARK (Affiliate) Date: 2026.01.27 16:03:56 -07'00' **Date:** _____

## ATTACHMENT 10: SCHEDULED MAINTENANCE LOG

## SCHEDULED MAINTENANCE LOG

| **Date** | **Control Measure or Equipment Description** (include location where appropriate) | **Action Taken/ Comments** | **Action Taken By** (printed name & Z. no) |
|---|---|---|---|
| 2021 | No maintenance required. | | |
| 2022 | No maintenance required. | | |
| 2023 | No maintenance required. | | |
| 2024 | No maintenance required. | | |
| 2025 | No maintenance required | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

## ATTACHMENT 11: TRAINING DOCUMENTATION

Information on employees receiving training is available upon request.

# AGENDA
# For
# TA-16 STOCKPILE AREA MSGP TRAINING

1. **Brief overview of the National Pollutant Discharge Elimination System, Multi-Sector General Permit (MSGP):**
   a) The MSGP is a nation-wide general permit
   b) New permit was issued in January of 2021
   c) It authorizes the discharge of stormwater from specific industrial activities to meet Clean Water Act provisions
   d) EPA is the regulatory authority
   e) NM Environment Department is delegated authority to conduct inspections for them.

2. **Key Elements of the MSGP**
   a) Industrial sites must have a Stormwater Pollution Prevention Plan (SWPPP)
   b) Stormwater discharge from the site is sampled and analytical monitoring conducted
   c) Quarterly inspections are performed at the site
   d) Conditions requiring corrective action are identified, documented, and addressed

3. **Purpose of the MSGP is to MINIMIZE off-site migration of pollutants**
   a) Ensure controls are always adequate (not just after identification of a condition requiring corrective action)

4. (You all may be wondering why you are here) The permit requires personnel who implement requirements of the permit to be trained.

5. **SWPPP**

a) Identifies a Pollution Prevention Team
   i. This team consists of Derek Clark, Natalie Montoya, Mona Michaelis, Kristan Long, Paula Jaramillo, Jacob Knight, Kiri De La Torre, and Jose Munoz. This team is instrumental in ensuring implementation of the MSGP, SWPPP, and associated stormwater controls.

b) Identifies potential pollutant sources (Ask trainees what they think these sources are)
   i. Spills of fuel, oil, grease, fluids (transmission and hydraulic), anti-freeze and associated heavy metals
   ii. Dust from loading and unloading of materials

iii. Sediment

iv. Ask Trainees how WFO prevents potential pollutants in potholing water from being accepted

v. Describes stormwater controls used to reduce/eliminate pollutants in stormwater discharges: Review SWPPP map and walk down controls at the site. Discuss their purpose and when they should be repaired or replaced.

vi. Contains procedures the site uses to comply with the terms/conditions of the permit

1. WFO-IWD-00016, Spill Response and Clean Up in Weapons Facilities Operations Areas
2. Weapons Facilities Operations Clean Fill Acceptance and Reuse Process (DEP to review process briefly)
3. Procedures by EPC-CP specifically identifying how permit conditions are implemented.
   a) How to conduct inspections, visual assessments, document conditions requiring corrective actions, obtain samples, etc.

**6. Spill Response and Cleanup**

a. (Ask Trainees what they would do if they noticed the truck, forklift, front-end loader or potholing machine, was leaking)

b. Call the EPC-CP spills pager at 505-664-7722

c. If trained, implement the requirements of WFO-IWD-00016, Spill Response and Clean Up in Weapons Facilities Operations Areas *immediately*.

d. All complex/emergency spills or releases are reported to the Emergency Operations Support Center (EOSC) 667-2400.

e. For fire or explosion call 911 or activate fire pull box.

**7. Good Housekeeping**

a. Keep Stockpile Area in an orderly condition. (Ask Trainees what they would do if they noticed waste, trash, or debris in the Stockpile Area)

b. If sediment is tracked onto K-Site Road, sweeping will occur.

c. Maintain adequate capacity to accommodate precipitation events and prevent inadvertent discharge of pothole or culvert cleanout water.

d. Pick up garbage, debris, and floatables when observed on-site.

e. Check trucks, loaders, forklifts and other heavy equipment for leaks prior to using them to transport material to the TA-16 Stockpile Area. Only use well maintained trucks and heavy equipment for transfer operations.

8. Contact Paula Jaramillo and Kristan Long, the Deployed Environmental Professionals, if you have any questions about environmental requirements.
Contact Jacob Knight (505-665-5880 or jknight@lanl.gov) for specific questions about the MSGP.

## ATTACHMENT 12: MSGP (OR ACTIVE URL)

A copy of the 2021 MSGP is kept on file with the SWPPP hard copy.

The active URL for the permit is:

https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp

## ATTACHMENT 13: THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR LOS ALAMOS NATIONAL LABORATORY

**The *Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory* (LA-UR-22-20556) is available upon request.**

## ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT

**IPaC** Information for Planning and Consultation **U.S. Fish & Wildlife Servi**

# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

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## Location

Los Alamos, Sandoval, and Santa Fe counties, New Mexico




## Local office

New Mexico Ecological Services Field Office

(505) 346-2525
(505) 346-2542

2105 Osuna Road Ne
Albuquerque, NM 87113-1001

http://www.fws.gov/southwest/es/NewMexico/
http://www.fws.gov/southwest/es/ES_Lists_Main2.html

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# Endangered species

**This resource list is for informational purposes only and does not constitute an analysis of project level impacts.**

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an

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office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

# Mammals

| NAME | STATUS |
|---|---|
| New Mexico Meadow Jumping Mouse Zapus hudsonius luteus<br>Wherever found<br>There is **final** critical habitat for this species. The location of the critical habitat is not available.<br>https://ecos.fws.gov/ecp/species/7965 | Endangered |

# Birds

| NAME | STATUS |
|---|---|
| Mexican Spotted Owl Strix occidentalis lucida<br>Wherever found<br>There is **final** critical habitat for this species. Your location overlaps the critical habitat.<br>https://ecos.fws.gov/ecp/species/8196 | Threatened |
| Southwestern Willow Flycatcher Empidonax traillii extimus<br>Wherever found<br>There is **final** critical habitat for this species. The location of the critical habitat is not available.<br>https://ecos.fws.gov/ecp/species/6749 | Endangered |
| Yellow-billed Cuckoo Coccyzus americanus<br>There is **proposed** critical habitat for this species. The location of the critical habitat is not available.<br>https://ecos.fws.gov/ecp/species/3911 | Threatened |

# Amphibians

| NAME | STATUS |
|---|---|

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| | |
|---|---|
| Jemez Mountains Salamander Plethodon neomexicanus<br>Wherever found<br>There is **final** critical habitat for this species. The location of the critical habitat is not available.<br>https://ecos.fws.gov/ecp/species/4095 | Endangered |

# Fishes

| NAME | STATUS |
|---|---|
| Rio Grande Silvery Minnow Hybognathus amarus<br>There is **final** critical habitat for this species. The location of the critical habitat is not available.<br>https://ecos.fws.gov/ecp/species/1391 | Endangered |

# Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

This location overlaps the critical habitat for the following species:

| NAME | TYPE |
|---|---|
| Mexican Spotted Owl Strix occidentalis lucida<br>https://ecos.fws.gov/ecp/species/8196#crithab | Final |

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# Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-

species/
birds-of-conservation-concern.php

- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

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| NAME | BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.) |
|---|---|

Bald Eagle Haliaeetus leucocephalus — Breeds Dec 1 to Aug 31
This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/1626

Black-chinned Sparrow Spizella atrogularis — Breeds Apr 15 to Jul 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9447

Brewer's Sparrow Spizella breweri — Breeds May 15 to Aug 10
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/9291

Golden Eagle Aquila chrysaetos — Breeds Jan 1 to Aug 31
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/1680

Grace's Warbler Dendroica graciae — Breeds May 20 to Jul 20
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Gray Vireo Vireo vicinior — Breeds May 10 to Aug 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/8680

Lesser Yellowlegs Tringa flavipes — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9679

Lewis's Woodpecker Melanerpes lewis — Breeds Apr 20 to Sep 30
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9408

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| | |
|---|---|
| Long-billed Curlew Numenius americanus<br>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.<br>https://ecos.fws.gov/ecp/species/5511 | Breeds Apr 1 to Jul 31 |
| Long-eared Owl asio otus<br>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.<br>https://ecos.fws.gov/ecp/species/3631 | Breeds Mar 1 to Jul 15 |
| Olive-sided Flycatcher Contopus cooperi<br>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.<br>https://ecos.fws.gov/ecp/species/3914 | Breeds May 20 to Aug 31 |
| Pinyon Jay Gymnorhinus cyanocephalus<br>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.<br>https://ecos.fws.gov/ecp/species/9420 | Breeds Feb 15 to Jul 15 |
| Rufous Hummingbird selasphorus rufus<br>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.<br>https://ecos.fws.gov/ecp/species/8002 | Breeds elsewhere |
| Virginia's Warbler Vermivora virginiae<br>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.<br>https://ecos.fws.gov/ecp/species/9441 | Breeds May 1 to Jul 31 |
| Willet Tringa semipalmata<br>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. | Breeds elsewhere |
| Willow Flycatcher Empidonax traillii<br>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA<br>https://ecos.fws.gov/ecp/species/3482 | Breeds May 20 to Aug 31 |

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# Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most

likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

**Probability of Presence** (▪)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

**Breeding Season** (▪)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

**Survey Effort** (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

**No Data** (–)

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A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

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**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the migratory birds potentially occurring in my specified location?**

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

**What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

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### How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

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### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

**Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

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# Facilities

## National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

## Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

# Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

PEM1C

FRESHWATER FORESTED/SHRUB WETLAND

PSS1A

RIVERINE

R4SBA

R4SBC

A full description for each wetland code can be found at the National Wetlands Inventory website

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**Data limitations**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Data exclusions**

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and

nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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## ATTACHMENT 15: EPC-CP-PIP-2101, NPDES MULTI-SECTOR GENERAL PERMIT

| EPC-CP-PIP-2101 | Revision: **2** | Los Alamos NATIONAL LABORATORY |
|---|---|---|
| Effective Date: 04/26/2023 | Next Review Date: 04/26/2026 | |

## Environment, Safety, Health, and Quality Directorate

## Environmental Protection and Compliance Division – Compliance Programs Group

## Program Implementation Plan (PIP)

# NPDES Multi-Sector General Permit

**Document Owner/Subject Matter Expert:**

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Holly L. Wheeler | EPC-CP | Signature on File | 04-20-2023 |

**Derivative Classifier:** ☒ **Unclassified or** ☐ _____

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Steven E. Wolfel | EPC-CP | Signature on File | 04-20-2023 |

**Approval Signatures:**

| EPC-CP Reviewer: | Organization: | Signature: | Date: |
|---|---|---|---|
| Alethea Banar | EPC-CP | Signature on File | 04-20-2023 |
| Responsible Line Manager: | Organization: | Signature: | Date: |
| Terrill W. Lemke, Team Leader | EPC-CP | Signature on File | 04-21-2023 |
| Responsible Line Manager: | Organization: | Signature: | Date: |
| Steven L. Story, Group Leader | EPC-CP | Signature on File | 04-26-2023 |

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## REVISION HISTORY

| Document Number and Revision | Effective Date | Description of Changes |
|---|---|---|
| ENV-RCRA-QAPP-MSGP, R0 | 06/03 | New Document. |
| ENV-RCRA-QAPP-MSGP, R1 | 12/05 | Annual review and revision. |
| ENV-RCRA-QAPP-MSGP, R2 | 07/07 | Annual review, incorporated organizational restructure changes. |
| ENV-RCRA-QAPP-MSGP, R3 | 07/09 | Biennial Review and Revision. |
| ENV-RCRA-QAPP-MSGP, R4 | 07/09 | Biennial Review and Revision. |
| ENV-CP-QAPP-MSGP, R5 | 10/13 | Biennial Review and Revision. New format implemented. |
| EPC-CP-PIP-2101, R0 | 01/19/2021 | Initial issue under this document number. It supersedes/replaces ENV-CP-QAPP-MSGP, R5. Changes include revision to the document template, addition of MLs, software requirements, and detail to Section 4.5. |
| EPC-CP-PIP-2101 R1 | 10/20/2021 | Update to procedure numbers and Attachment 2. Deletion of Appendices B, C and D with associated update to text in Section 3.3.2. |
| EPC-CP-PIP-2101 R2 | 04/26/2023 | This revision includes reintegration of training and qualifications into PIP. Expanded Section 4.2 to add subsections 4.2.1 MSGP Program Training with Table 4.2.1, 4.2.2 MSGP Program Qualifications, and 4.2.3 Certifications. Removed Appendix A. This document, EPC-CP-PIP-2101 R2, supersedes/replaces EPC-CP-PIP-2101 R1, EPC-CP-QS-2005, EPC-CP-QS-006, and EPC-CP-QS-2007. |

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## 1.0 PURPOSE

This document describes the Program Implementation Plan (PIP) for the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Program at Los Alamos National Laboratory (LANL or the Laboratory). Performance of the processes and procedures described herein, are in accordance with EPC-CP-QAP-001, *Environmental Compliance Programs Quality Assurance Plan.* This PIP provides detail and context regarding the implementation of those work activities generally described in EPC-CP-QAP-001. Work conducted under this program ensures compliance with the MSGP and the Clean Water Act.

## 2.0 AUTHORITY AND APPLICABILITY

### 2.1 Authority

This document is issued under the authority of the Environmental Protection and Compliance Division's Compliance Programs Group Leader to direct the management and operation of the MSGP Program.

### 2.2 Applicability

This PIP applies to personnel performing work by or for the MSGP Program, including but not limited to Triad National Security, LLC (Triad) employees, subcontractors, and suppliers at all tiers (in accordance with subcontract documents), students, guests, and associates.

## 3.0 PROGRAM SCOPE

The MSGP Program is responsible for compliance oversight of Triad's NPDES MSGP, coordination and performance of institutional MSGP stormwater compliance activities, and developing and implementing institutional standards and policies regarding MSGP stormwater management. EPC-CP is the institutional point of contact regarding MSGP environmental compliance interactions with entities outside of LANL (i.e., regulatory agencies, stakeholders, and the public).

### 3.1 Requirements

The MSGP Program satisfies requirements contained in the following documents:

- EPC-CP-QAP-001, Section 3.3
- NPDES MSGP
- Title 40 of the Code of Federal Regulations (CFR) Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*
- Title 20, Chapter 6, Part 4 of the New Mexico Administrative Code (NMAC), *Standards for Interstate and Intrastate Surface Waters*

### 3.2 Description of Work Activities

Triad will implement the monitoring requirements specified by the most current NPDES MSGP for industrial activities at LANL. The EPC-CP Stormwater Permitting/Compliance Team oversees institutional stormwater compliance related activities at the Laboratory.

### 3.3 Graded Approach

The following sections provide reference to the applicable Management Level Determinations and Software Risk Level forms.

#### *3.3.1 Management Level Determination*

The following Management Level Determinations are applicable to equipment and/or work activities for the MSGP Program:

- ML-4, per MLDS No.: MLDS-TA-60-324, Revision 0.

#### *3.3.2 Software Risk Levels*

The Environmental Information Management (EIM), Maintenance Connection, and MSGP Corrective Action Oracle APEX software do not trigger any of the Reasonable Probability Criteria from P1040, Section 3.3.1. Therefore, the completion of a Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) is not required, and the software is considered Non-Safety/Commercially Controlled.

## 4.0 PROGRAM-SPECIFIC QUALITY ASSURANCE REQUIREMENTS AND IMPLEMENTING WORK ACTIVITIES

Based on the Graded Approach results referenced above, this PIP is determined to be consistent with the work activity types covered by EPC-CP-QAP-001, Section 3.3. Attachment 1 presents a summary of the work practices (procedures, instructions, etc.,) that EPC-CP uses to meet the quality assurance (QA) requirements of SD300/Department of Energy (DOE) Order 414.1D, Chg. 2.

### 4.1 Criterion 1 – Management/Program

#### *4.1.1 Program Goals*

The MSGP Program supports EPC Division efforts to provide leadership in environmental protection and compliance services and compliance support to anticipate and manage environmental risk in support of Triad's mission.

Triad complies with the monitoring requirements, such as parameters, frequency of sampling, reporting, etc., set forth in the NPDES MSGP for industrial point source discharges through the Laboratory's MSGP Program. Compliance is demonstrated through the successful implementation of this PIP and applicable procedures.

### *4.1.2 Roles and Responsibilities*

EPC-CP is responsible for the Laboratory's MSGP Program and a description of the group organization, levels of authority, and lines of communication are found within this PIP. EPC-CP group is organized by program teams under the line management direction of the Group Leader. Teams are cross-functional and focus on specific Program responsibilities, deliverables, or products. Program teams are guided by Team Leaders who have the responsibility to assure that the program is properly implemented. The following sections identify the roles and responsibilities for EPC-CP personnel, contractors, and program interfaces.

#### *4.1.2.1 Group Leader*

- Assure that the program has adequate resources (e.g., budget, staffing, etc.,) and that qualified staff properly gather and evaluate information submitted to the Environmental Protection Agency (EPA) as required by the MSGP Program.
- Sign Discharge Monitoring Reports (DMR), Annual Reports, Quarterly Visual Assessment Certifications, prior to submittal to the EPA.
- Ensure that program personnel conduct procurements in accordance with P840-1, *Quality Assurance for Procurements*.
- Plan, conduct, and document periodic management assessments and Management Observation and Verifications (MOVs) of MSGP Program activities as required by P328-3 and P328-4.

#### *4.1.2.2 Stormwater Permitting/Compliance Team Leader*

- Ensure that program personnel perform work associated with the MSGP Program in accordance with the processes, procedures, and requirements specified in this plan.
- Ensure all MSGP Program personnel have the appropriate level of education, experience, and training to perform their job duties.
- Ensure that the most recent versions of the quality-related documents are used for all activities.
- Monitor and trend MSGP Program performance and track deficiencies.
- Support Facility Operations Directors (FODs) and Deployed Environmental Professionals (DEPs) with the implementation of corrective actions in a timely manner.
- Sign/submit DMRs, Annual Reports, Quarterly Visual Assessment Certifications, etc.
- Ensure PIP meets minimum specifications for documentation and records required by EPC-CP-QAP-001, *Environmental Compliance Programs Quality Assurance Plan*.
- Conduct periodic reviews of records and documentation for accuracy, applicability, and compliance.

- Provide oversight and ensure that monitoring requirements are followed in accordance with the MSGP Program.
- Ensure that all required compliance documents are submitted to EPA in accordance with the MSGP.
- Recommend to Group Leader contracting items and services.
- Assist the Group Leader in planning and implementing management assessments and MOVs.
- Identify issues, concerns, or problems that warrant management assessment.
- Oversee resolution and correction of all problems found during management assessments.

#### *4.1.2.3 MSGP Program Lead*

- Perform MSGP Program related activities as assigned by the Stormwater Permitting/Compliance Team Leader.
- Engage other team members to support implementation of the MSGP Program.
- Support DEPs and permitted industrial facility owners with the implementation of corrective actions in a timely manner.
- Ensure analytical instruments used in the field are calibrated as per Institutional Procedure P330-2, *Control and Calibration of Measuring and Test Equipment (M&TE)*. Periodically review and update the calibration procedures to ensure permit requirements are met.
- Identify opportunities for process improvement, health and safety enhancement, environmenal protection, or other improvements of the program's operations.
- Ensure deficiencies are reported to the Stormwater Permitting/Compliance Team Leader in a timely manner.
- Implement a monitoring program as required by the MSGP.
- Ensure DMRs are prepared and submitted as required by the MSGP Program.
- Review documents for accuracy and completeness to assure that the requirements of the MSGP are met.
- Oversee data quality assessments prior to submittal of monthly, quarterly, and annual DMRs.
- Ensure procedures for sample handling and control during sample preparation, retrieval and analysis are followed.
- Identify issues, concerns, or problems that warrant management assessment.
- Periodically evaluate corrective actions to determine if there are issues that need to be entered into the Issues Management Tool.

- Oversee preparation, conduct quality review, and submit all required compliance documents (e.g., NOI/Notice of Termination (NOT), DMRs, Annual Reports, and correspondence) to EPA.
- Oversee preparation and conduct quality review of Stormwater Pollution Prevention Plans (SWPPP) coordinated with the responsible organization.

#### *4.1.2.4 Storm Water Tracking System/Discharge Monitoring Report Manager*

- Perform MSGP Program related activities as assigned by the Stormwater Permitting/Compliance Team Leader.
- Serve as database administrator for the Storm Water Tracking System (SWTS) and Discharge Monitoring Report modules in EIM.
- Maintain current MSGP station and monitoring requirement configuration content in SWTS.
- Ensure all results from sampling are returned and are eligible for reporting.
- Assist MSGP Program Lead in conducting data quality assurance review.
- Conduct data quality assessments prior to submittal of monthly, quarterly, and annual DMRs.
- Ensure compliance reports (NOI/NOT, DMRs, and Annual Reports) are prepared as required by the MSGP.
- Prepare stormwater DMRs for the MSGP Program.

#### *4.1.2.5 MSGP Personnel*

- Perform MSGP Program related activities as assigned by the Stormwater Permitting & Compliance Team Leader.
- Implement approved processes and procedures for any equipment and instrumentation used to collect field data (i.e., visual assessment parameters, temperature, and pH).
- Mentor and train new personnel, as needed.
- Conduct sampling activities in accordance with approved processes and procedures.
- Perform sample handling and control during sample preparation, retrieval, and analysis in accordance with approved processes and procedures.
- Notify the MSGP Program Lead immediately upon discovery of field parameter(s) (visual assessment parameters, temperature, and/or pH) exceedances.
- Conduct QA check of methods/equipment.
- Procure sampling equipment (i.e., bottles, standards, preservatives) in accordance with P840-1, *Quality Assurance for Procurements*. Order materials and supplies in accordance with LANL protocol.

#### *4.1.2.6 EIM Database Administrator*

- Coordinate with the Subcontract Technical Representative (STR) to ensure that formal contracts are in place to support MSGP Program compliance activities.
- Coordinate with the STR to oversee contract analytical laboratories and ensure they follow the DOE Analytical Services Program.
- Coordinate with the STR to ensure that the off-site laboratory participates in the DOE Consolidated Audit Program and that the analytical laboratory has been audited on an annual basis.
- Administer and maintain the database.
- Provide role-related database access.
- Maintain facility and personnel configuration content, permit-defined lists of limited values (LLVs), and e-mail notification distribution lists.
- Oversee shipping/transport of samples to the correct off-site analytical laboratory for analysis.
- Oversee administration and maintenance of sampling plans and sample documentation.
- Load analytical data into the EIM database and run auto-validation checks.
- Oversee management of analytical laboratory data packages.

#### *4.1.2.7 Corrective Action Reporting Database Administrator*

- Administer and maintain the database.
- Provide role-related database access.
- Maintain facility and personnel configuration content, permit defined LLVs, and e-mail notification distribution lists.

#### *4.1.2.8 Maintenance Connection Database Administrator*

- Administer and maintain the database.
- Provide role-related database access.
- Maintain facility and personnel configuration content.
- Extract data to support preparation of the MSGP Annual Report.

### *4.1.3 Internal Interfaces*

#### *4.1.3.1 Facility Operations Directors*

The FOD provides organizational leadership to ensure that all facility and programmatic activities under their authority are performed in compliance with the MSGP. The FOD is also responsible for establishing an environmental compliance envelope. It is the FOD's responsibility to maintain trained and qualified DEPs and Waste Management Coordinators on staff under their authority.

#### *4.1.3.2 Permitted Industrial Activity Facility Owner/Operator*

The permitted industrial activity facility owner/operator is the organization or individual(s) designated by management to oversee the day-to-day operation and maintenance of each regulated facility and its associated stormwater control measures (SCMs) and outfalls. The designated owner/operator may be the FOD, Facility Operations Manager, Maintenance Manager, or Group Leader responsible for the buildings, facilities, and areas where the SCMs and outfalls are located. The MSGP Program interfaces with the owners/operators to assist in determining appropriate maintenance, corrective actions, inspections, site walks, and monitoring.

#### *4.1.3.3 Deployed Environmental Professional*

DEPs are embedded within FODs as assigned by the Deployed Environment Professionals Team Leader. DEPs provide daily environmental oversight, guidance, and support to the FOD and each designated permitted industrial activity facility owner/operator. The MSGP Program interfaces with DEPs regularly to coordinate outfall surveys, inspections, site walks, and monitoring. The DEPs perform the following MSGP activities.

- Act as a liaison between the permitted industrial activity operating facilities, the FOD, and EPC-CP.
- Write and update the facility specific MSGP SWPPP.
- Conduct Routine Facility Inspections.
- Document, update, and coordinate correction of identified conditions requiring corrective actions.
- Identify personnel within industrial operating facilities requiring training.
- Update MSGP facility-specific training and present the training annually.

#### *4.1.3.4 Sample Management Office (SMO)*

The EPC-CP SMO is the central point for all analytical laboratory selection, evaluations, sample submittals, and data returns. The SMO performs the following activities.

- Evaluates potential analytical laboratories, prepares analytical statements of work that include requirements, and arrange contracts with selected laboratories for analysis of all samples.

- Accepts samples from sample collection personnel, prepares the sample for shipment, ships the samples to the off-site analytical laboratories, and receives the data packages from the laboratories.
- Analytical data is received from analytical laboratories in electronic format and uploaded into a database. Received data is checked for completeness and adherence to contract requirements. After uploading, data undergoes verification and validation for evidence of laboratory contamination, improper analytical method, and other analytical issues, which could potentially affect data quality.
- Field data collected by sample collection personnel is verified and is entered into EIM by SMO personnel when sample collection personnel deliver samples to the SMO.
- If significant verification and validation issues are identified, results are forwarded to, and discussed with, the responsible program lead.
- Data issues that result from procedural failures, personnel errors, or other failures to follow requirements are documented and corrected according to P322-4, *Issues Management*.

### *4.1.4 External Interfaces*

#### *4.1.4.1 Environmental Protection Agency*

EPA Region 6 authorizes coverage under the MSGP in the State of New Mexico. The MSGP Program interfaces with the EPA, as needed, to submit public comment on draft permits, submit permit required reports, plans and other documentation, and to ensure compliance with the NPDES MSGP.

#### *4.1.4.2 New Mexico Environmental Department*

The New Mexico Environmental Department (NMED) Surface Water Quality Bureau assists the EPA with compliance evaluations, monitoring and Section 401, Clean Water Act certification through a joint federal and state agreement. Section 401 requires all federally issued permits to be certified by the state in which the discharge occurs and requires effluent limitations, other limitations and monitoring requirements set forth in the permit adhere to state water quality standards. The MSGP Program interfaces with the NMED as needed to ensure compliance with the Permit.

#### *4.1.4.3 National Nuclear Safety Administration/Los Alamos Field Office*

The National Nuclear Safety Administration (NNSA)/Los Alamos Field Office is the LANL facility owner and is responsible for providing oversight of LANL operations. It is the responsibility of the Los Alamos Field Office to ensure that LANL operates in compliance with all state and federal regulations. The MSGP Program interfaces with the Los Alamos Field Office as needed to ensure compliance with the Permit.

#### *4.1.4.4 Analytical Laboratory Contractors*

An independent off-site analytical laboratory performs analytical services for the MSGP Program. The analytical laboratory is required to participate in the DOE Consolidated Audit Program, maintain

positive control of samples, perform analyses for samples received, and report sample results as specified in statements of work and internal procedures. The STR and SMO personnel interface with the off-site analytical laboratory. Interface between MSGP Program personnel and the analytical laboratory is conducted with STR and SMO oversight, as needed, to ensure that samples are handled correctly and that analytical results are received per the contract requirements.

## 4.2 Criterion 2 – Management/Personnel Training and Qualification

The Stormwater Permitting/Compliance Team Leader shall determine skills, knowledge, and abilities required to perform MSGP Program work. Program personnel will be qualified and trained in accordance with P781-1, *Conduct of Training.* All personnel performing program related work are required to obtain appropriate training before preforming work governed by a procedure. The Stormwater Permitting/Compliance Team Leader assigns minimum training requirements using a training plan which will be assigned and tracked using the training management system, UTrain. The Triad Human Resources Division maintains documentation of education qualifications.

### *4.2.1 MSGP Program Training*

Table 4.2.1 provides a summary of training requirements for MSGP Program personnel.

**Table 4.2.1 Management/Personnel Training**

| Key Personnel/Role | Task Description | Curriculum or Course Number |
|---|---|---|
| Stormwater Program Lead and MSGP Inspectors | Duty Area: NPDES Permit Knowledge | |
| | EPC-CP-PIP-2101, NPDES Multi-Sector General Permit | Course 28267 |
| | EPC-CP-QAP-001, EPC-CP Quality Assurance Plan | Course 44842 |
| | Duty Area: Inspection Procedures | |
| | EPC-CP-QP-0903, Environmental Reporting Requirements for Releases or Events | Course 42415 |
| | EPC-CP-TP-2102, Installing, Setting Up, and Operating ISCO Samplers | Course 55962 |
| | EPC-CP-TP-2103, Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples | Course 56594 |
| | EPC-CP-QP-2104, Installing, Inspecting, and Maintaining MSGP Single Stage Samplers | Non_Train 42638 |
| | EPC-CP-QP-2105, MSGP Stormwater Visual Assessments | Course 50493 |
| | EPC-CP-QP-2106, Processing MSGP Stormwater Samples | Course 56595 |
| | EPC-CP-QP-2108, MSGP Routine Facility Inspections | Course 42609 |
| | EPC-CP-QP-2109, MSGP Corrective Actions | Course 54892 |
| | EPC-CP-QP-3020, Sample Control and Field Documentation | Course 47729 |

| | | |
|---|---|---|
| | EPC-CP-QP-3027, Sample Containers, Preservation, and Field Quality Control Samples | Course 48007 |
| | Chemical Hazard Communication | Course 25997 |
| | Excavation/Fill/Soil Disturbance Self-Study | Course 31419 |
| | LANL Excavation/Fill/Soil Disturbance (EXID) Permit Process Using the EXID Request System | Course 47420 |
| | IRT GIS Mapping Training | Course 46181 |
| | Duty Area: General Field Safety | |
| | EPC-DO-QP-100, General Field Safety | Course 45777 |
| | P300 Integrated Work Management | Course 48233 |
| | P101-7 Vehicle and Pedestrian Safety | Course 57060 |
| | Duty Area: Electrical Safety Field | |
| | Electrical Safety Program at LANL | Course 33215 |
| | R&D Electrical Safety - Energized | Course 38710 |
| | Battery Safety | Course 16745 |
| | First Aid: Standard | Course 3574 |
| | CPR/AED: LANL Workplace | Course 43562 |
| Stormwater Pollution Prevention Plan Preparer | Duty Area: NPDES Permit Knowledge | |
| | EPC-CP-PIP-2101, NPDES Multi-Sector General Permit | Course 28267 |
| | EPC-CP-QAP-001, EPC-CP Quality Assurance Plan | Course 44842 |
| | Duty Area: Knowledge of applicable EPC-CP Plans and Procedures | |
| | EPC-CP-QP-2110, MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | RR 48269 |
| Storm Water Tracking System/Discharge Monitoring Report Manager | Duty Area: NPDES Permit Knowledge | |
| | EPC-CP-PIP-2101, NPDES Multi-Sector General Permit | Course 28267 |
| | EPC-CP-QAP-001, EPC-CP Quality Assurance Plan | Course 44842 |
| | Duty Area: Knowledge of applicable EPC-CP Plans and Procedures | |
| | EPC-CP-QP-2107, Preparing Discharge Monitoring Reports for the NPDES Multi-Sector General Permit | Course 56593 |

### *4.2.2 MSGP Program Qualifications*

***General Qualifications***

- Experience in the principles and practices of industrial stormwater controls and pollution prevention.
- Two years of experience completing MSGP inspections **OR** one year inspection experience with a Certified Professional in Erosion and Sediment Control (CPESC) certification.
- Certified Inspector of Sediment and Erosion Control (CISEC) certification.

***MSGP Inspector Qualifications***

- Demonstrated ability, as determined by the Program Lead and/or Stormwater Permitting and Compliance Team Leader, to successfully and effectively evaluate, and identify the following at permitted sites:
  - Appropriate and correct site stabilization measures,
  - Appropriate SCM selection to manage erosion and sedimentation,
  - Effectiveness of stormwater control measures selected and installed to meet the requirements of the permit,
  - Inadequate or ineffective SCMs,
  - Required modification or maintenance of existing SCMs,
  - Locations requiring new or additional SCMs,
  - All industrial, construction, or pollutant generating activity areas identified in the Stormwater Pollution Prevention Plan; and required to be evaluated by the MSGP,
  - Conditions and activities that may impact stormwater quality at a permitted site,
  - Potential pollutant sources, and
  - Stormwater Pollution Prevention Plan and supporting documentation.
- Demonstrated ability, as determined by the Program Lead and/or Stormwater Permitting and Compliance Team Leader, to properly and effectively complete inspection reports, including the following:
  - Conduct inspections in a professional manner,
  - Provide recommendations for new controls, or replacement or modification of existing controls,
  - Prepare reports, describe site conditions and issues, and document conditions requiring corrective action clearly and accurately,
  - Use proper spelling and grammar and write legibly,
  - Complete inspection form(s) accurately, and
  - Accurately enter findings into the appropriate programmatic database.

***MSGP SWPPP Preparer Qualifications***

- Demonstrated ability, as determined by the Program Lead and/or Stormwater Permitting and Compliance Team Leader to:
  - Prepare SWPPPs per LANL format and in compliance with MSGP requirements.
  - Assess conditions at an industrial facility that could impact stormwater quality.

- Identify and specify appropriate SCMs and stabilization measures.
- Assess the effectiveness of stormwater controls selected and installed to meet the requirements of the permit.
- Perform necessary calculations to meet regulatory requirements.
- Prepare a site map.
- Identify potential pollutant sources associated with a site.

***MSGP Stormwater Design Reviewer Qualifications***

Must meet one of the following:

- Education in civil or environmental engineering.
- Experience with design reviews with a demonstrated background in stormwater management, sediment and erosion control, regulatory compliance, and experience with the LANL engineering standards and related engineering calculations.
- CPESC professional certification and experience reviewing design packages.

### *4.2.3 Certifications*

MSGP personnel will, at a minimum, obtain a CISEC certification. CISEC and CPESC certifications are obtained from an entity outside of LANL. Each certification involves the successful completion of a classroom training and exam. CISEC and CPESC certifications will be recertified using the process and frequency determined by the entity the certification was obtained from (e.g., annually with completed professional development hours).

## 4.3 Criterion 3 – Management/Quality Improvement

The MSGP Program adheres to the EPC-CP-QAP-001 principles of problem prevention and continuous improvement. The MSGP Program Lead will evaluate improvement opportunities identified by trending and reporting.

### *4.3.1 Performance Reporting*

Personnel involved in activities associated with the MSGP Program are encouraged to provide periodic updates, either verbal or written, to the MSGP Program Lead. The program uses these updates to determine areas that require attention and corrective actions.

### *4.3.2 Corrective Actions*

Corrective actions for all EPC-CP programs and projects are initiated, tracked, corrected, and documented according to P330-6, *Nonconformance Control and Reporting,* P322-4, *Issues Management,* EPC-CP-QAP-001, *EPC-CP Quality Assurance Plan*, and Group procedures. A condition requiring corrective action that meets any of the following criteria is entered into the Issues Management Tool and will be screened as high, medium, or low.

- Corrective action was not completed by the expected completion date.
- A schedule is sent to the EPA Region 6 requesting an extension of the 45-day or 90-day timeframe to complete a corrective action and corrective action was not completed by the required completion date provided in the letter or as approved by EPA.
- All benchmark Additional Implementation Measure (AIM) level 2 or 3 exceedances.
- Repeat corrective actions or trends identified by EPC-CP personnel.
- Conditions requiring immediate action, where failure to take action, would result in pollutants being released to a water body of the State or an immediate non-compliance with the MSGP.
- Violations identified by the regulatory authority.
- Other issues as deemed necessary by EPC-CP personnel.

## 4.4 Criterion 4 – Management/Documents and Records

### *4.4.1 Document Control*

Procedures, permits, NOIs, NOTs, reports, and quality affecting correspondence are controlled by the organization's document control policies and practices (P1020-2, *Laboratory Document Control*). As a Best Management Practice (BMP), EPC-CP keeps an approved hard copy of the MSGP as well as all of the reapplication materials associated with the permit.

Controlled copies of EPC documents are located on the Internet:

- Electronic Document and Records Management System

Phone calls or emails are documented and controlled if the content provides direction or results in clarification of permit requirements or decisions.

### *4.4.2 Procedures*

Procedures that implement the work scope identified in this PIP are developed and controlled, as needed, in accordance with EPC-CP-QAP-001, *EPC-CP Quality Assurance Plan*, ESHQSS-AP-007, *ESHQSS Document Control Procedure*, and EPC-CP-QP-0901, *EPC-CP Quality Procedure to Supplement ESHQSS-AP-007, ESHQSS Document Control Procedure*.

### *4.4.3 Electronic Media*

The MSGP utilizes electronic means, as necessary, to maintain data. Databases used to hold data and generate reports used in demonstrating compliance are maintained on a common drive of a server or on a cloud-based platform. These databases are backed-up daily to minimize potential loss of data. The database administrator(s) control access to these databases, allowing only trained authorized personnel access to them.

EIM (https://www.locusfocus.com/eim/eim.cfm) is a cloud-based database information system designed in part to support the information management needs of the Laboratory's MSGP. MSGP support includes analytical data management, stormwater discharge monitoring reporting, Geographic Information System (GIS) development, and other information management activities as needed.

Maintenance Connection (https://www.maintenanceconnection.com/mcv18/online/mc_login_form.asp) is a cloud-based computerized maintenance management system, or CMMS, used to manage MSGP field activities such as monitoring station installation and removal, inspections, maintenance, sample collection and retrieval, visual inspections, and information management change controls for data stored in Maintenance Connection and in the SWTS Module in EIM.

The MSGP Corrective Action Report (MSGP CAR) database (https://epc.lanl.gov) is a Laboratory-managed Oracle APEX database and associated administration module that tracks corrective action data.

### *4.4.4 Records Management*

Records are maintained and available for auditing in accordance with P1020-1, *Laboratory Records Management* and ESH-AP-006, *Records Management Procedure*. The Stormwater Permitting/Compliance Team generates and retains records to ensure compliance with monitoring and recordkeeping requirements as specified by the Laboratory, DOE, and the EPA. Records kept by the MSGP Program include the following:

- Copy of the MSGP
- Annual Reports
- Discharge Monitoring Reports
- Corrective Action Reports
- NOIs and NOTs
- Reports and certifications required by the MSGP
- Data used for compliance purposes
- Inspection forms
- Logbook entries and/or field forms to document inspection and monitoring activity
- Equipment and instrument calibration and maintenance records
- QA documents
- General correspondence that affects the program (e.g., phone calls, emails, and log entries that provide directions or results in decisions)
- Applicable Integrated Work Documents (IWDs)

- General MSGP compliance documents (correspondence with regulators and stakeholders, notice of change conditions, etc.)

Analytical data packages are stored in the Electronic Document and Records Management system (EDRMS) and are available for public viewing on the Intellus New Mexico website.

The DEPs, assigned to the FOD in which a permitted industrial activity facility resides, keep the following records within the facility-specific Stormwater Pollution Prevention Plan.

- Reports and certifications required by the MSGP
- Routine Facility Inspection forms
- Visual Assessment forms
- Corrective Action Reports
- Discharge Monitoring Reports
- Annual Reports

All monitoring data is collected in accordance with the requirements specified in the MSGP. Triad submits monitoring results to EPA within 60 days of the end of the monitoring period, or in the case of no discharge (NODI) DMRs, within 30 days of the end of the monitoring period. The NOI or change NOIs, Annual Reports and DMRs are submitted electronically in accordance with the MSGP. These documents are submitted via EPA's electronic reporting site called the Central Data Exchange (CDX) website unless the permit states otherwise or unless a waiver has been granted.

Triad keeps copies of the following documentation for a period of at least 3 years from the date its coverage under the MSGP expires or is terminated.

- SWPPP (including any modifications made during the term of the MSGP)
- Additional documentation requirements as identified in Section 6.5 of the MSGP
- All reports and certifications required by the MSGP
- Monitoring data
- Records of all information used to complete the NOI.

### 4.5 Criterion 5 – Performance/Work Processes

Work that contributes to achieving the quality specifications of the MSGP deliverables is planned and documented as described in this document and implementing procedures.

Work is performed according to applicable plans and implementing procedures. The Program Lead provides first line supervision of personnel assigned to program tasks to ensure work is performed to achieve program quality specifications. Before changing a work process that affects the program quality specifications, the Program Lead ensures the same level of planning and review as used in the initial program planning steps.

### *4.5.1 Work Processes*

All work should be regarded as a process. Each process consists of a series of actions and is planned and carried out by qualified workers using specified work processes and equipment under administrative, technical, and environmental controls established by management to achieve an end-result. Workers are the best resource to contribute ideas for improving work processes and are involved in work process design, process evaluation, and providing the feedback necessary for improvement.

Work is planned and performed using the principles of Integrated Safety Management and is in compliance with P300, *Integrated Work Management for Work Activities*.

### *4.5.2 Stormwater Pollution Prevention Plans*

SWPPP development and implementation by the permitted industrial activity facility is required for MSGP compliance (refer to Sections 6.0 and 8.0 of the MSGP for general SWPPP requirements and Sector-Specific Requirements for Industrial Activity, and Attachment 2, *MSGP Facilities Associated with Industrial Activity*). The SWPPP is intended to document the selection, design, and installation of SCMs. Additional documentation requirements are intended to document the implementation (including inspection, maintenance, monitoring, and corrective action) requirements identified in the MSGP. The SWPPP is a written assessment of potential sources of pollutants in stormwater runoff and it identifies SCMs implemented at the specific permitted industrial activity facility to minimize the discharge of pollutants in runoff from the site. These SCMs include site-specific stormwater controls, inspections, employee training, and reporting. The plans and procedures detailed in the SWPPP are implemented by the facility and updated as necessary, with a copy of the SWPPP kept on-site.

The SWPPP development process involves evaluating regulated industrial activities and requires FOD and Operational support for implementation, improvement, and revision of the plans. EPC-CP personnel follow guidance in EPC Division and Group documents including the most current revision of EPC-CP-QP-2110, *MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance*.

### *4.5.3 Inspections*

The MSGP requires periodic inspection of industrial processes and maintenance of SCMs to ensure their effectiveness. Triad has implemented a routine inspection process (e.g., monthly, or quarterly) of industrial activity facilities permitted under the MSGP to support this determination. For information about how to perform a Routine Facility Inspection and how to complete the associated form, refer to the most current revision of EPC-CP-QP-2108, *MSGP Routine Facility Inspections.*

Visual assessments are also required by the MSGP as an important tool for collecting information to determine the effectiveness of controls in preventing potential contaminants from migrating off Laboratory property. Accordingly, field personnel conduct visual assessments for stormwater collected at the monitoring stations or discharged through substantially identical discharge points associated with permitted industrial activity facilities located throughout the Laboratory. Information recorded documents all observations that are required by the MSGP. For information

about how to perform a Visual Assessment and how to complete the associated form, refer to the most current revision of EPC-CP-QP-2105*, MSGP Stormwater Visual Assessments*.

### *4.5.4 Stormwater Corrective Actions*

It is critical that Triad be able to effectively inspect and maintain the SCMs that have been installed at various locations. Quarterly inspections are completed and provided to the Program Lead for inclusion into the records system. In addition, the Program Lead accompanies the DEPs on the last Routine Facility Inspection of the year. All identified conditions requiring corrective action are summarized in an Annual Report submitted to EPA each year. Triad management has made an investment in time and materials, in addition to a commitment to minimize potential migration of pollutants in stormwater. Report findings are evaluated, and in conjunction with facility personnel, SCMs are modified, installed, or removed as necessary. EPC-CP personnel follow guidance in EPC Division and Group level documents including EPC-CP-QP-2109, *MSGP Corrective Actions*.

#### *4.5.4.1 Permit Limit Exceedances*

Federal stormwater regulations implemented under the Laboratory's MSGP require corrective action to be taken when an exceedance of permit limits (i.e., numeric effluent limitations, or an AIM triggering event) occurs. The identification of a pollutant source(s) contributing to a permit limit exceedance is addressed through the creation of a condition requiring corrective action entered into the MSGP CAR database in accordance with EPC-CP-QP-2109, *MSGP Corrective Actions*. Corrective actions are typically accomplished by modifying, as appropriate, existing SCMs and SWPPPs or installing new SCMs.

When a permit limit exceedance occurs, the Storm Water Tracking System/Discharge Monitoring Report Manager assures the analytical data is reviewed and submitted on the required DMR. The Program Lead enters exceedances in the MSGP CAR database. DEPs, and other SWPPP team members then investigate the occurrence, implement corrective action and document all corrective actions taken.

Impaired waters constituents and indicator parameters are documented on DMRs as report only.

### *4.5.5 Stormwater Monitoring*

The MSGP requires stormwater monitoring to address four separate criteria: quarterly benchmark, indicator parameters, numeric effluent limitations, and impaired waters. Refer to Attachment 2, *MSGP Facilities Associated with Industrial Activity* for a list of Laboratory permitted facilities that have monitoring requirements. Stormwater monitoring is conducted by EPC-CP personnel in accordance with the MSGP, EPC-CP procedures, and the current year MSGP Sampling and Analysis Plan. Considerations to be used for MSGP stormwater monitoring include, but may not be limited to, MSGP requirements, State water quality standards, and Administrative Authority requests.

Quarterly benchmark and indicator parameter monitoring is used to determine the effectiveness of stormwater controls. Four benchmark stormwater samples per year are required under the MSGP, but it is not necessary to collect them in consecutive quarters if climatic conditions preventing

quarterly collection are documented (see *Adverse Weather Conditions* in Part 4.1.5 of the MSGP). Indicator parameter monitoring is conducted quarterly throughout the permit term for pH, Chemical Oxygen Demand and Total Suspended Solids. For a Sector D facility (i.e., the Asphalt Batch Plant) Polycyclic Aromatic Hydrocarbons, which are also considered indicator parameters, are monitored semi-annually in year 1 and year 4 of permit coverage. Stormwater monitoring results are used to demonstrate compliance with water quality standards and to meet the requirement to evaluate results against benchmark parameter permit limits.

Annual Impaired Waters stormwater discharge monitoring of all pollutants for which a waterbody is impaired and for which a standard analytical method exists (see 40 CFR Part 136) is required. The canyons within and surrounding the Laboratory are declared as impaired waters by NMED. Impaired waters pollutants vary from canyon to canyon and are evaluated and published biannually by NMED in the Clean Water Act §303(d)/305(b) Integrated Report. The pollutants may be discontinued in subsequent annual monitoring if the concentration is below background levels in stormwater or if the constituent is not detected in year 1 or year 4 of the permit.

Effluent limitations monitoring is required annually where effluent limitation guidelines have been established for select regulated activities. Exceedance of an effluent limitation is a permit violation.

MSGP analytical methods applicable to LANL are consistent with the requirements of 40 CFR Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants.*

Triad monitors for four quarters as follows for each calendar year.

- January 1-March 31
- April 1-June 30
- July 1-September 30
- October 1-December 31

Documentation of the rationale for no monitoring or inspections due to adverse weather conditions must be included in the facility specific SWPPP. Adverse weather conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, or electrical storms, or situations that otherwise make sampling impractical, such as drought or extended frozen conditions.

Compliance is tracked by performing inspections of samplers and other associated equipment and inspecting SCMs. Adequate records are maintained to demonstrate the operating history of essential instrumentation and equipment.

Triad operates and maintains systems of monitoring, control, and related equipment that are installed or used to achieve compliance with the MSGP and the SWPPP. Backup instrumentation and equipment will be timely deployed in the event of equipment failure.

Instrument calibration is essential for documenting the quality of data obtained with the instrument. Technical work that depends upon the accuracy of data is performed using equipment for which the calibration status and limits of accuracy are known and controlled.

Field team personnel calibrate and perform maintenance procedures on all monitoring and analytical field instruments to ensure accuracy of measurements and maintain appropriate records of such activities. Calibrations are documented as prescribed by procedures or manufacturer's instructions.

Any person involved in the preparation, retrieval, and analysis will maintain positive control of samples at all times until sample disposal. Chain of custody responsibilities are provided in EPC-CP-QP-3020, *Sample Control and Field Documentation* and Table 4.5.5-1. EPC-CP personnel follow guidance in EPC Division documents including the most current revision of:

- EPC-CP-TP-2102, *Installing, Setting Up, and Operating ISCO Samplers*,
- EPC-CP-TP-2103, *Inspecting Stormwater Runoff Samplers and Retrieving Samples*,
- EPC-CP-QP-2104, *Installing, Inspecting, and Maintaining MSGP Single Stage Samplers,* and
- EPC-CP-QP-2106, *Processing MSGP Stormwater Samples*.

**Table 4.5.5-1. Chain of Custody**

| Activity | Responsibility |
|---|---|
| Sample collection and preparation | All persons (other than analytical personnel) performing sample preparation and collection are trained to sample collection procedures and adhere to the chain of custody requirements therein. |
| Analysis | Analytical laboratories performing sample analysis maintain sufficient procedures to ensure positive control of samples as specified in the existing Statement of Work. |
| Storage/Disposal | Analytical laboratories maintain/retained samples and/or sample portions under chain of custody until reanalysis, or ultimate disposal. |

The EPC-CP SMO is the central point of contact for analytical laboratory selection, evaluations, sample submittal, and data return. See Section 4.1.3.4 for SMO roles and responsibilities.

### *4.5.5.1 Quality Control Samples*

The planning and coordination of each sampling event and/or monitoring period may include the following quality control (QC) samples to detect potential sources of sample contamination or to track analytical laboratory performance:

- **Equipment Rinsate Blank:** A sample of analyte-free water that is prepared in the field using the appropriate sampling equipment with an aliquot of deionized (DI) or certified contaminant-free water that is processed using applicable field equipment in the same manner as the samples.

- **Field Duplicates:** Two samples taken from, and representative of, the same population and carried through all steps of the sampling and analytical procedures in an identical manner. Duplicate samples are used to assess variance of the total method including sampling and analysis.
- **Trip Blank:** Samples of analyte-free water that are prepared in the laboratory using DI or certified contaminant-free water and preserved as required. Trip blanks are used for volatile organic compound (VOC) samples only. Trip blanks are transported, unopened, to the field with other sample containers, handled like environmental samples and shipped to the analytical laboratory for analysis with the collected samples. VOC samples are not a requirement of the MSGP.
- **Field Blank:** A sample of analyte-free water that is prepared in the field using a clean sample container.

The MSGP Program Lead shall consider and include, at a minimum, the collection of QC samples at the frequencies identified in Table 4.5.5.1-1.

**Table 4.5.5.1-1. Quality Control Sampling Requirements**

| Sample Type | Analysis | Frequency |
|---|---|---|
| Field Blank and/or Field Duplicate | Includes all analytical groups | 10% of samples or a minimum of one per calendar year. |

All QC samples shall be collected in accordance with procedures provided in EPC-CP-QP-3027, *Sample Containers, Preservation, and Field Quality Control Samples*.

### *4.5.6 Reporting*

#### *4.5.6.1 Discharge Monitoring Reports*

DMRs are prepared in accordance with the most recent version of the procedure for generating DMRs using the DMR module in EIM. The DMR module is used to prepare the DMR in two formats: a paper form (EPA Form 3320-1) which may be printed as a hard copy or saved as a PDF, and an electronic comma-separated value file for import into the NetDMR electronic reporting system. The Laboratory is required to submit DMRs to EPA electronically using the NetDMR system and to keep a printed copy with the facility specific SWPPP.

DMRs are due in the NetDMR system no later than 60 days following each monitoring period. NetDMR is accessed via EPA's CDX website (https://cdx.epa.gov/). The DMR manager may import DMRs into NetDMR; however, only a designated EPC Signatory Official or Authorized Representative may submit the DMRs for NPDES Permits. NetDMR roles and permissions for these functions are described on the EPA NetDMR Streamlined Registration (https://npdes-ereporting.epa.gov/net-netdmr/).

#### *4.5.6.2 Annual Reports*

The Laboratory is required to submit an annual report electronically to the EPA by January 30th for each year of permit coverage that includes a summary of the findings from inspections and corrective action documentation. The documentation includes the following:

- Permit information,
- Facility information,
- A summary of the past year's routine facility inspection documentation (see Part 3.1.6 of the MSGP),
- A summary of your past years quarterly visual assessment documentation (see Part 3.2.3 of the MSGP),
- A summary of the corrective action and/or AIM documentation over the past year (see Parts 5.1.3 and 5.3 of the MSGP), and
- Certification information.

The annual report is submitted electronically via the NetMSGP program service on EPA's CDX website. The annual report may be submitted on a paper form (EPA Form 6100-28) if the Laboratory has been granted a waiver from electronic reporting by the applicable EPA Regional Office.

### 4.6 Criterion 6 – Performance/Design

Design activities are conducted and reviewed in accordance with:

- PD340, *Conduct of Engineering and Configuration Management for Facility Work*
- P341, *Facility Engineering Processes Manual*
- P342, *Engineering Standards*

Design standards under this program include, but are not limited to temporary and permanent SCMs, conditions requiring corrective action, and stormwater monitoring support.

Design inputs are specified and approved on a timely basis for making design decisions. Inputs contain the level of detail required to permit the performance of design activities correctly.

Formal design reviews, including design verifications and evaluation of design changes, are conducted to ensure that the design input is correctly incorporated into the design output. Changes to design will undergo the same review as the original design. A Professional Engineer must stamp engineered designs.

Verification and validation of the adequacy of designs are conducted before relying on the performance of the design function. Verification and validation are conducted in accordance with implementing procedures.

### 4.7 Criterion 7 – Performance/Procurement

Items and services required to perform the scope for the MSGP Program are commercial grade in nature and no special procurement requirements or needs are necessary. All procurements of equipment, supplies, and/or services are made in accordance with P840-1, *Quality Assurance for Procurements*.

### 4.8 Criterion 8 – Performance/Inspection and Acceptance Testing

Materials and services used in this program will be inspected and/or tested prior to acceptance in accordance with P330-8, *Inspection and Test* as applicable. Most supplies used during performance of program activities are commercial grade in nature and require no special acceptance practices or procedures.

### 4.9 Criterion 9 – Assessment/Management Assessment

The EPC-CP Group Leader conducts management assessments and/or MOV assessments of the MSGP Program in accordance with P328-3, *Management Assessment* and *P328-4, Management Observation and Verification*. Assessments are documented and filed as records in accordance with ESH-AP-006, *Records Management Procedure*. Violations of requirements and/or findings from management assessments and/or MOVs initiate a nonconformance report in accordance with P330-6 *Nonconformance Control and Reporting*. Corrective actions to resolve the nonconforming services or processes are tracked and documented in accordance with P322-4, *Issues Management*.

### 4.10 Criterion 10 – Assessment/Independent Assessment

Independent assessments are those assessments conducted by organizations external to EPC-CP. As required by the SD330, *Los Alamos National Laboratory Quality Assurance Program*, this program may be assessed by outside organizations in accordance with P328-2, *Independent Assessment.*

Annual audits/assessments will be conducted, with input from the Stormwater Permitting/Compliance Team Leader identifying one or more areas of the program to be audited each year. If a violation of requirements is found during an independent audit/assessment, a nonconformance report is initiated in accordance with P330-6, *Nonconformance Control and Reporting*. Corrective actions are tracked and documented in accordance with P322-4, *Issues Management*.

### 4.11 Suspect/Counterfeit Items Prevention

Suspect/Counterfeit items (S/CI) are prevented from being purchased by Triad at LANL. Potential S/CI are prevented, detected, reported and investigated in accordance with the procedures defined in the LANL procedure P330-9, *Suspect/Counterfeit Items (S/CI)*.

### 4.12 Safety Software Quality Assurance Requirements for Nuclear Facilities

This section is only applicable for nuclear facilities in accordance with DOE Order 414.1D, Chg.2, Attachment 1 *Contractor Requirements Document* (CRD), Section 1.b. As such, this section is not applicable to the NPDES MSGP Program.

## 5.0 IMPLEMENTATION

The requirements of this document are effective on the date provided on the cover page.

## 6.0 TRAINING

Training for EPC-CP MSGP employees, DEPs, and subcontractors is assigned and tracked using UTrain, the institutional training management system. The required training associated with this document is as follows.

- Self-study of this procedure (required reading) is required for all MSGP Program employees, including subcontractors, and some DEPs depending on their assigned job duties.

## 7.0 DOCUMENTS AND RECORDS

EPC-CP is the Office of Record for this document that must be maintained in accordance with PD1020, *Document Control and Records Management;* ESHQSS-AP-007, *ESHQSS Document Control Procedure*; P1020-1, *Laboratory Records Management*, and ESH-AP-006, *Records Management Procedure*.

## 8.0 DEFINITIONS AND ACRONYMS

Use the LANL *Definition of Terms* and those in SD330.

Use the LANL *Acronym Master List*.

| | |
|---|---|
| AIM | Additional Implementation Measure |
| BMP | Best Management Practice |
| CDX | Central Data Exchange |
| CFR | Code of Federal Regulations |
| CISEC | Certified Inspector of Sediment and Erosion Control |
| CPESC | Certified Professional in Erosion and Sediment Control |
| CRD | Contractor Requirements Document |
| DEP | Deployed Environmental Professional |
| DI | Deionized |
| DMR | Discharge Monitoring Report |
| DOE | Department of Energy |
| EIM | Environmental Information Management |
| EPA | Environmental Protection Agency |

| | |
|---|---|
| EPC-CP | Environmental Protection and Compliance-Compliance Programs |
| FOD | Facility Operations Director |
| LANL or Laboratory | Los Alamos National Laboratory |
| LLV | List of Limited Value |
| MOV | Management Observation and Verification |
| MSGP | Multi-Sector General Program |
| NeT | NPDES eReporting Tool |
| NMAC | New Mexico Administrative Code |
| NMED | New Mexico Environmental Department |
| NNSA | National Nuclear Safety Administration |
| NOI | Notice of Intent |
| NOT | Notice of Termination |
| NPDES | National Pollutant Discharge Elimination System |
| PIP | Program Implementation Plan |
| QA | Quality Assurance |
| QC | Quality Control |
| S/CI | Suspect/Counterfeit Items |
| SCM | Stormwater Control Measure |
| SMO | Sample Management Office |
| STR | Subcontract Technical Representative |
| SWPPP | Stormwater Pollution Prevention Plan |
| SWTS | Storm Water Tracking System Module |
| VOC | Volatile organic compound |

## 9.0 REFERENCES

The latest document revision, available through Triad's Electronic Document and Records Management System, shall be used unless otherwise specified.

Prime Contract

DOE Order 414.1D, Chg. 2, *Quality Assurance*

NPDES MSGP

40 CFR Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*

Clean Water Act, Title 33 U.S.C. 1251

20.6 Part 4 NMAC, *Standards for Interstate and Intrastate Surface Waters*

**LANL Documents:**

SD330, *Los Alamos National Laboratory Quality Assurance Program*

P101-17, *Excavation/Fill/Soil Disturbance*

P300, *Integrated Work Management*

P322-4, *Issues Management*

P328-2, *Independent Assessment*

P328-3, *Management Assessment*

P328-4, *Management Observation and Verification*

P330-2, *Control and Calibration of Measuring and Test Equipment (M&TE)*

P330-6, *Nonconformance Control and Reporting*

P330-8, *Inspection and Test*

P330-9, *Suspect/Counterfeit Items (S/CI)*

P340, *Conduct of Engineering and Configuration Management for Facility W*ork

P341, *Facility Engineering Processes Manual*

P342, *Engineering Standards*

EPC-ES-FSD-001, *Implementing Environmental Requirements*

EPC-CP-FSD-001, *Water Quality*

P781-1 *Conduct of Training*

P840-1, *Quality Assurance for Procurements*

P1040, *Software Quality Management*

PD1020, *Document Control and Records Management*

P1020-1, *Laboratory Records Management*

**EPC Documents:**

ESH-AP-006, *Records Management Procedure*

ESHQSS-AP-007, *ESHQSS Document Control Procedure*

EPC-DO-QP-100, *General Field Safety*

EPC-CP-QAP-001, *EPC-CP Quality Assurance Plan*

EPC-CP-QP-0901, *EPC-CP Quality Procedure to Supplement ESHQSS-AP-007, ESHQSS Document Control Procedure*

EPC-DO-TP-120, *Project Review Process*

EPC-CP-QP-2109, *MSGP Corrective Actions*

EPC-CP-QP-2104, *Installing, Inspecting, and Maintaining MSGP Single Stage Samplers*

EPC-CP-QP-2105, *MSGP Stormwater Visual Assessments*

EPC-CP-QP-2106, *Processing MSGP Stormwater Samples*

EPC-CP-QP-2107, *Preparing Discharge Monitoring Reports for the NPDES Multi-Sector General Permit*

EPC-CP-QP-2108, *MSGP Routine Facility Inspections*

EPC-CP-QP-2110, *MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance*

EPC-CP-TP-2102, *Installing, Setting Up, and Operating ISCO Samplers*

EPC-CP-TP-2103, *Inspecting Stormwater Runoff Samplers and Retrieving Samples*

## 10.0 APPENDICES

None.

## 11.0 ATTACHMENTS

Attachment 1: Summary of QA Requirements and Program-Level (Local) Work Practices

Attachment 2: MSGP Facilities Associated with Industrial Activity

## 12.0 CONTACT INFORMATION

Entity: EPC-CP Stormwater Permitting/Compliance Team Leader
Name: Terrill W. Lemke
Telephone: (505) 665-2397
E-mail: tlemke@lanl.gov

## Attachment 1: Summary of QA Requirements and Program-Level (Local) Work Practices

| Summary of QA Requirements and Program-Level (Local) Work Practices | | |
|---|---|---|
| **DOE Order 414.1D/SD 330 Requirements** | **LANL Work Practice** | **Local Implementing Procedure or QAP section (if applicable)** |
| CRD Attach. 2, 1.<br>Criterion 1 – Management/Program | LANL organization chart<br>SD100, *Integrated Safety Management System Description*<br>PD100, *DOE/NNSA Approved Los Alamos National Laboratory*<br>10 CFR 851, *Worker Safety and Health Program* | EPC-CP organization chart<br>EPC-DO-QP-100<br>EPC-CP-IWD-2102 |
| CRD Attach. 2, 2.<br>Criterion 2 – Management/Personnel Training and Qualification | PD781, *Training Program Management*<br>P1040, *Software Quality Management*<br>P781-1, *Conduct of Training* | EPC-CP-QAP-001 |
| CRD Attach. 2, 3.<br>Criterion 3 – Management/Quality Improvement | P101-18, *Procedure for Pause/Stop Work*<br>PD322-4, *Issues Management*<br>PD324, *LANL Metrics Program*<br>P330-6, *Nonconformance Control and Reporting* | EPC-CP-QAP-001 |
| CRD Attach. 2, 4.<br>Criterion 4 – Management/Document and Records | PD1020, *Document Control and Records Management*<br>P1020-1, *Laboratory Records Management*<br>P1020-2, *Laboratory Document Control* | EPC-CP-QAP-001<br>ESH-AP-006<br>ESHQSS-AP-007<br>EPC-CP-QP-0901 |
| CRD Attach. 2, 5.<br>Criterion 5 – Performance/Work Processes | SD100, *Integrated Safety Management System Description Document with embedded 10 CFR 851 Worker Safety and Health Program*<br>PD100, *DOE/NNSA Approved Los Alamos National Laboratory*<br>*10 CFR 851 Worker Safety and Health Program Description*<br>P151-1, *LANL Packaging and Transportation Program Procedure*<br>PD311, *Requirements System and Hierarchy*<br>SD330, *Los Alamos National Laboratory Quality Assurance Program*<br>PD340, *Conduct of Engineering for Facility Work*; | EPC-CP-PIP-2101, *NPDES Multi-Sector General Permit Program Implementation Plan*<br>EPC-CP-TP-2102, *Installing, Setting Up, and Operating ISCO Samplers*<br>EPC-CP-TP-2103, *Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples*<br>EPC-CP-QP-2104, *Installing, Inspecting, and Maintaining MSGP Single Stage Samplers* |

| Summary of QA Requirements and Program-Level (Local) Work Practices | | |
|---|---|---|
| **DOE Order 414.1D / SD 330 Requirements** | **LANL Work Practice** | **Local Implementing Procedure or QAP section (if applicable)** |
| | P315, *Conduct of Operations Manual*<br>P330-2, *Control and Calibration of Measuring and Test Equipment (M&TE)*<br>SD601, *Conduct of Research and Development*<br>PD781, *Training Program Management*<br>P1040, *Software Quality Management* | EPC-CP-QP-2105, *MSGP Stormwater Visual Assessments*<br>EPC-CP-QP-2106, *Processing MSGP Stormwater Samples*<br>EPC-CP-QP-2107, *Preparing Discharge Monitoring Reports for the NPDES Multi-Sector General Permit*<br>EPC-CP-QP-2108, *MSGP Routine Facility Inspections*<br>EPC-CP-QP-2109, *MSGP Corrective Actions*<br>EPC-CP-QP-2110, *MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance* |
| CRD Attach. 2, 6.<br>Criterion 6 – Performance/Design | <u>For Facility Work:</u><br>PD340, *Conduct of Engineering and Configuration Management for Facility Work*<br>P341, *Facility Engineering Processes Manual*<br>P342, *Engineering Standards;* Engineering Standards Manual; Functional Series documents; Engineering Administrative Procedures<br><u>For R&D:</u><br>PD370, *Conduct of Engineering for Research and Development (R&D)* | No local implementing procedures, LANL Work Practices apply. |
| CRD Attach. 2, 7.<br>Criterion 7 – Performance/Procurement | P840-1, *Quality Assurance for Procurements*[1] | No local implementing procedures, LANL Work Practices apply. |
| CRD Attach. 2, 8.<br>Criterion 8 – Performance/Inspection and Acceptance Testing | P330-8, *Inspection and Test*[3]<br>P330-2, *Control and Calibration of Measuring and Test Equipment (M&TE)* | No local implementing procedures, LANL Work Practices apply. |

**Summary of QA Requirements and Program-Level (Local) Work Practices**

| DOE Order 414.1D / SD 330 Requirements | LANL Work Practice | Local Implementing Procedure or QAP section (if applicable) |
|---|---|---|
| CRD Attach. 2, 9. Criterion 9 – Assessment/Management Assessment | PD328, *LANL Assessment Program*<br>P328-3, *Management Assessment*<br>P328-4, *Management Observation and Verification* | EPC-CP-QAP-001 |
| CRD Attach. 2, 10. Criterion 10 – Assessment/Independent Assessment | PD328, *LANL Assessment Program*<br>P328-2, *Independent Assessment*<br>P328-4, *Management Observation and Verification* | No local implementing procedures, LANL Work Practices apply. |
| CRD Attach. 3, Suspect/Counterfeit Items Prevention | P330-9, *Suspect/Counterfeit Items (S/CI)*[1] | No local implementing procedures, LANL Work Practices apply. |
| CRD Attach. 4, Safety Software Quality Assurance Requirements for Nuclear Facilities[2] | P1040, *Software Quality Management*[2]<br>Form 2033, *Safety Non-Safety Software Determination, Categorization, and Software Risk Level* | No local implementing procedures, LANL Work Practices apply. |

[1] S/CI prevention is also integrated into other listed work processes. Application of the S/CI oversight and prevention process is commensurate with the facility/activity hazards and mission impact. The extent of applicability of S/CI prevention for ML-4 items is as described in P840-1, *Quality Assurance for Procurements*, and P330-9, *Suspect/Counterfeit Items (S/CI).*

[2] DOE Order 414.1D, Chg 1, *Quality Assurance*, Attachment 1 requires that all software meet the applicable quality assurance requirements in Attachment 2 of DOE Order 414.1D, Chg 1, using a graded approach. LANL uses risk levels to grade safety software and risk significant non-safety software. See P1040, Software Quality Management, for additional detail.

[3] For ML-4 items and activities, inspections and tests are performed to extent required by the applicable codes and/or standards.

[4] Core work practices applicable to R&D are described in SD601, *Conduct of Research and Development*.

## Attachment 2: MSGP Facilities Associated with Industrial Activities

(Page 1 of 1)

| MSGP Facilities Associated with Industrial Activities | | | | | | |
|---|---|---|---|---|---|---|
| **Location** | **Permitted Facility** | **Operation** | **Activity** | **Sector** | **Assessment Unit** | **Canyon** |
| TA-3-0038 | TA-3-0038 Metals Fab Shop | Metal Shop | Fabricated metal products | AA1 | NM-9000.A_047 | Sandia |
| TA-09-0214 | TA-09-0214 Metal Fabrication Shop | Metal Shop | Fabricated metal products | AA1 | NM-128.A_16 | Arroyo de la Delfe |
| TA-16 | Stockpile Area | Materials Storage | Materials storage | P1 | NM-128.A_01 | Canyon de Valle |
| TA-60 | TA-60 Asphalt Batch Plant | Asphalt Batch Plant | Asphalt paving | D1 | NM-9000.A_042 | Mortandad |
| TA-60 | TA-60 MRF | Materials Recycling Facility | Scrap recycling | N2 | NM-9000.A_047 | Sandia |
| TA-60 | TA-60 Roads and Grounds | Roads and Grounds Facility | Vehicle maintenance and storage | P1 | NM-9000.A_042<br>NM-9000.A_047 | Mortandad<br>Sandia |
| TA-60-0001 | TA-60-0001 Heavy Equipment Yard | Motor Pool and Metal Shop | Vehicle maintenance and fabricated metal products | P1 and AA1 | NM-9000.A_047 | Sandia |
| TA-60-0002 | TA-60-0002 Warehouse | Warehousing | Vehicle fueling | P1 | NM-9000.A_047 | Sandia |

## ATTACHMENT 16: EPC-CP-QP-2108, MSGP ROUTINE FACILITY INSPECTIONS

| | | |
|---|---|---|
| **EPC-CP-QP-2108** | Revision: **1** | Los Alamos NATIONAL LABORATORY |
| Effective Date: 11/21/2023 | Next Review Date: 11/21/2026 | |

## Environment, Safety, Health, and Quality Directorate

## Environment Protection and Compliance – Compliance Programs Group

## Quality Procedure

# MSGP Routine Facility Inspections

| | | | |
|---|---|---|---|
| **Hazard Grading:** | ☒ Low | ☐ Moderate | ☐ High/Complex |
| **Usage Level:** | ☒ Reference | ☐ UET | ☐ Mixed: UET Sections: _____ |
| **Status:** | ☐ New | ☒ Major Revision | ☐ Minor Revision |
| | ☐ Review w/No Changes | | ☐ Other: _____ |
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**Document Author/Subject Matter Expert:**

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Holly L. Wheeler | EPC-CP | Signature on File | 11-06-2023 |

**Derivative Classifier:** ☒ **Unclassified or** ☐ _____

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Steven E. Wolfel | EPC-CP | Signature on File | 11-06-2023 |

**Approval Signatures:**

| | | | |
|---|---|---|---|
| EPC-CP Reviewer: | Organization: | Signature: | Date: |
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| EPC-CP RLM: | Organization: | Signature: | Date: |
| Terrill W. Lemke, Team Leader | EPC-CP | Signature on File | 11-20-2023 |
| Responsible Line Manager: | Organization: | Signature: | Date: |
| Sarah Holcomb, Acting Group Leader | EPC-CP | Signature on File | 11-21-2023 |

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*To document a required read, Login to UTrain, and go to the Advanced Search.*

## REVISION HISTORY

| **Document Number and Revision** *[Include revision number, beginning with Revision 0]* | **Effective Date** *[Document Control Coordinator inserts effective date]* | **Description of Changes** *[List specific changes made since the previous revision]* |
|---|---|---|
| EPC-CP-QP-023 R0 | 05/17/2018 | New Document. Process formerly part of procedure ENV-RCRA-QP-022 R2, *MSGP Corrective Actions*. |
| EPC-CP-QP-023 R1 | 03/07/2019 | Added question to inspection form, associated text to document, and renumbered steps. Removed reference to Los Alamos National Security, LLC. Added reference to LANL BMP Manual. Minor edits made. |
| EPC-CP-QP-2108, R0 | 07/09/2020 | Supersedes EPC-CP-QP-023 R1. Reformat to new EPC-CP template, re-number procedure and forms to new EPC-CP procedure numbering system, and other edits. |
| EPC-CP-QP-2108 R1 | 11/21/2023 | This document supersedes EPC-CP-QP-2108 R0. Reviewed and revised to the new 2021 MSGP language and requirements throughout procedure. Updated Attachment 1 w/ screen shots from ECMS software platform. Revised all Sections to match new inspection form and changed all references from Maintenance Connection to ECMS. Removed Section 2.5 DESH Manager (roles and responsibilities), removed Section 3.2 Limitations, and updated EPC-CP-QP-022 to EPC-CP-QP-2109. |

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## 1.0 INTRODUCTION

The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP), also referred to as the permit, contains specific environmental requirements for inspecting areas of Los Alamos National Laboratory (LANL) covered by the permit. This includes areas where industrial materials or activities are exposed to stormwater, areas identified as potential pollutant sources, areas where leaks and spills have occurred in the past three years, discharge points, and control measures used to comply with the effluent limits of the MSGP.

LANL inspectors and facility personnel are required to perform routine facility inspections for industrial stormwater discharge on LANL areas covered by the MSGP at least quarterly and document observations. Conditions (as described by the MSGP) found during an inspection, requiring a corrective action(s), are managed through EPC-CP-QP-2109, *MSGP Corrective Actions.*

### 1.1 Purpose

Part 3.1 of the MSGP contains specific requirements for conducting and documenting periodic industrial routine facility inspections. This procedure governs the activities of personnel involved in conducting industrial routine facility inspections. It also contains information and specific steps to be used for identifying and documenting conditions to meet the permit requirements.

### 1.2 Scope

Requirements set forth in this document apply to personnel responsible for meeting the permit conditions on behalf of Triad National Security LLC (Triad), the management and operating contractor of LANL industrial facilities covered by the MSGP. The MSGP requires periodic inspection of facilities and identification, documentation, and reporting of conditions, including those requiring corrective actions.

Inspections conducted under this procedure are documented using the Environmental Compliance Management System (ECMS) web application on a mobile phone, tablet, notebook, or desktop computer.

### 1.3 Applicability

This procedure applies to Environmental Protection and Compliance–Compliance Programs (EPC-CP) technical staff, Deployed Environmental Professionals (DEPs), and other LANL staff who conduct inspections and monitoring activities at MSGP regulated LANL facilities managed and operated by Triad.

## 2.0 ROLES AND RESPONSIBILITIES

Specific roles and responsibilities for implementation of requirements contained in this procedure are provided below.

### 2.1 EPC-CP MSGP Stormwater Permitting and Compliance Team

EPC-CP MSGP Stormwater Permitting and Compliance personnel are fully knowledgeable of the specific regulatory requirements identified in the MSGP and are responsible for the following:

- Implementing this procedure,
- Performing routine facility inspections, the last month or quarter of the year at regulated sites [depending on inspection frequency identified in site-specific Stormwater Pollution Prevention Plans (SWPPPs)],
- Performing “no exposure” site inspections once a year to ensure conditions of the “no exposure” exclusion is met,
- Performing routine facility inspections at inactive sites once a year,
- Identifying issues requiring a corrective action during any of the above inspections or assessments,
- Determining a condition of non-compliance,
- Notifying managers or legal counsel of non-compliances,
- Modifying the site-specific MSGP Routine Facility Inspection forms (e.g., add or remove Stormwater Control Measures (SCMs)),
- Training personnel to use ECMS main application and MyECMS mobile application,
- Performing a quality review of routine facility inspections and “no exposure” site inspections, and
- Assisting customers with issues associated with ECMS main application and MyECMS mobile application.

### 2.2 Deployed Environmental Professionals

DEPs are responsible for the following:

- Implementing this procedure,
- Being knowledgeable of the requirements contained in site-specific SWPPPs within their assigned Facility Operations Directorate (FOD),
- Meeting qualification requirements identified in EPC-CP-PIP-2101, NPDES *Multi-Sector General Permit Program Implementation Plan*,
- Being trained on EPC-CP-QP-2109, *MSGP Corrective Actions,*
- Being familiar with industrial site and facility operations assigned to them so that they minimize sources of pollutants and pro-actively maintain controls to prevent issues that require corrective action,

- Performing routine facility inspections throughout the year at regulated sites within their FOD (depending on inspection frequency identified in site-specific SWPPPs) and documenting results clearly and accurately,
- Acting as liaison between the FOD and facility/operations personnel to ensure corrective actions are addressed appropriately by overseeing maintenance and/or installation of additional controls,
- Educating appropriate facility/operations personnel on the MSGP and site-specific SWPPPs so they successfully implement the conditions of the permit, and
- Notifying EPC-CP MSGP stormwater personnel when additional or substitute SCMs have been installed or old SCMs have been removed so the site-specific MSGP Routine Facility Inspection form can be modified.

### 2.3 EPC-CP Stormwater Permitting and Compliance Team Leader

The EPC-CP Stormwater Permitting and Compliance Team Leader is responsible for compliance oversight relative to the MSGP. The Team Leader works with the EPC-CP Group Leader to ensure adequate resources needed to implement the regulatory requirements identified in the MSGP are identified and environmental risks are assessed. The Team Leader will notify upper management of these required resources or environmental risks, as deemed necessary. In the event there is a dispute regarding the regulatory requirements contained in the MSGP, the Team Leader makes the final determination of the required action. The Team Leader notifies upper management of instances of non-compliance with the permit.

### 2.4 EPC-CP Group Leader

The EPC-CP Group Leader or designee is responsible for ensuring there are adequate resources (e.g., budget, staffing, etc.,) and that qualified staff properly gather and evaluate information submitted to the Environmental Protection Agency (EPA) as required by the MSGP Program. The Group Leader or designee (i.e., Team Lead) may act as the duly authorized signatory that certifies the Annual Report and MSGP Routine Facility Inspections conducted by EPC-CP personnel. The Group Leader notifies upper management of instances of non-compliance with the permit or other identified environmental risk.

## 3.0 PRECAUTIONS AND LIMITATIONS

The hazard rating for the activities described in this procedure is **LOW** and therefore, does not require an Integrated Work Document (IWD).

Personnel must wear appropriate clothing (e.g., boots, long pants, etc.) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or burns).

If conditions prevent fieldwork, document the conditions on the inspection form. Multiple attempts can be documented on the original form. If the due date cannot be met, the field personnel must contact the Program Lead no less than 24 hours before the due date for guidance.

## 4.0 PREREQUISITE ACTIONS

### 4.1 Planning and Coordination

1. Schedule work to be completed by the due date associated with the inspection form or as requested by the MSGP Program Lead if an inspection form is not assigned.
2. Inform (e.g., by e-mail) facility contacts (as needed) of the schedule for facility inspection work and locations up to a week (preferred) before but no later than the day before (for minor changes) to be added to the appropriate plan of the day (as necessary).
3. Gather the necessary equipment (see Section 4.2) for the work to be done.
4. Using the Chrome or Firefox web browser on a mobile phone, tablet or notebook style computer, log into the MyECMS application (http://ecms-prod.lanl.gov/MyECMS/) **OR** the ECMS main application (http://ecms-prod.lanl.gov/ecms/) and confirm that the inspection list displayed matches your sites. If the inspection list does not match, contact EPC-CP Data Management personnel for clarification.
5. Click on an inspection to open the inspection form.
6. Click Save to save work in progress and final work. Do not click Submit in MyECMS until all entries have been checked for completeness and accuracy.
7. Always log out when you have finished work OR if work is interrupted.

### 4.2 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available.

- Sturdy hiking boots or steel-toed shoes with soles that grip.
- Facility-specific PPE as required by IWD Part II.
- Cell phone (Cell phones are not allowed in Limited Areas or higher. See https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property.)
- LANL issued tablet, notebook or desktop computer with Chrome web browser and Blackberry work applications (see https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property)
- Copy of this procedure.
- Copy of facility specific map(s).
- Current inspection form(s).
- Necessary access keys.

## 5.0 MSGP ROUTINE FACILITY INSPECTIONS

MSGP routine facility inspections are conducted by the DEP or other qualified facility personnel (as defined in the MSGP or as determined by MSGP Program Lead) during periods when the facility is in operation and during standard operating hours. Results of visual and analytical monitoring for the past year must be considered when planning and conducting an inspection. The inspections are performed on the following facility areas:

- Areas where industrial materials or activities are exposed to stormwater,
- Areas identified in the SWPPP and those that are potential pollutant sources,
- Areas where spills and leaks have occurred in the past,
- Discharge points, and
- Control measures used to comply with the effluent limits contained in the MSGP.

Routine facility inspections are conducted at least quarterly; however, most facilities conduct monthly inspections (as specified in the facility specific SWPPP). At least once each calendar year, the routine facility inspections must be conducted during a period when stormwater discharge (either rain or snow) is occurring. During the inspection, you must look for the following:

- Industrial materials, residue, or trash that may have or could come into contact with stormwater,
- Leaks or spills from industrial equipment, drums, tanks, and other containers,
- Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site,
- Tracking or blowing of raw, final, or waste materials from areas of “no exposure” to exposed areas,
- Control measures that need replacement, maintenance, or repair,
- Non-authorized non-stormwater discharges, and
- Erosion of soils at the site, channel and streambank erosion and scour in the immediate vicinity of discharge points.

Conditions requiring corrective action identified during an inspection, monitoring, or other means must be entered into the MSGP Corrective Action Report database by the DEP(s), EPC-CP stormwater personnel and/or other qualified facility personnel (as defined in the MSGP or as determined by MSGP Program Lead). Follow the process in EPC-CP-QP-2109, *MSGP Corrective Actions* to address issues found during an inspection.

If the industrial facility is inactive and unstaffed and there are no industrial materials or activities exposed to stormwater, routine inspections may not be required. A determination of whether a facility is inactive or unstaffed is made in coordination with stormwater personnel from EPC-CP, as there are specific documentation and certification requirements that must be met prior to

discontinuing routine inspections. Such a facility is only required to conduct an annual site inspection.

If the industrial facility is eligible for a "no exposure" exclusion, routine inspections are no longer required. A condition of "no exposure" exists when all industrial materials and activities are protected by a storm-resistant shelter (e.g., moved to an indoor location) to prevent exposure to rain, snow, snowmelt, and/or runoff. A determination of whether a facility is eligible for "no exposure" status is made in coordination with stormwater personnel from EPC-CP, as there are specific documentation and certification requirements that must be met prior to discontinuing routine inspections. Such a facility is only required to conduct an annual site evaluation and recertification every five years.

### 5.1 Conducting the Inspection

See Attachment 1 for screen shot examples of EPC-CP-QP-2108 R1 Form 1, *MSGP Routine Facility Inspection* in ECMS. The form can be filled out in the ECMS mobile application (http://ecms-prod.lanl.gov/MyECMS/) or the ECMS main application (http://ecms-prod.lanl.gov/ecms/). Work can be saved at any time by clicking the "Save" button at the top of the inspection form.

***NOTE:*** Each item number listed in red font below corresponds to a red numbered box on the screenshot examples.

[1] **ITEM 1**: Observe the weather at time of inspection. Document the weather and temperature (e.g., Temp. 78°F, sunny, wind less than 5mph) in the text field.

[2] **ITEM 2**: Observe and document the facility is free of **previously** unidentified discharges from and/or pollutants that have occurred **since the last inspection**. Describe any new discharges and the specific location in the Comment field.

[3] **ITEM 3**:

IF the response to ITEM 2 is "Yes"
THEN answer this question as "N/A"

OR

IF the response to ITEM 2 is "No"
THEN answer this question as "Yes" and document the corrective action previously initiated for the discharge.

[4] **ITEM 4**: Check the facility is free of discharges of pollutants at the time of inspection. Describe any pollutant discharge and the specific location in the Comment field.

[5] **ITEM 5**: Check the facility is free of evidence of pollutants entering the drainage system OR the potential for pollutants entering the drainage system. Describe any discharge or potential discharge and the specific location in the Comment field.

[6] **ITEM 6**: Check the outfall for each of the following:

- Does not have any **new** evidence of erosion **since the last inspection**,
- Free of evidence of pollutants in the discharges and/or the Receiving Water,
- Free of unauthorized non-stormwater discharges.

Describe any observations in the Comment field.

[7] **ITEM 7**: Check all flow dissipation devices are operating effectively and are not in need of repair. Describe any non-functional status of devices in the Comment field (e.g., repair berm, replace rip rap, etc.).

[8] Repeat Steps 6 through 7 for each outfall shown on the work order if the location has more than one outfall.

[9] **ITEM 8**: By comparing the MSGP site map to each SCM, click the box next to each control measure inspected. Check each control measure is operating effectively. Describe any non-operational condition of the control measure (e.g., erosion, damage, etc.,) and if the control measure needs maintenance, repair, or replacement in the Comment field.

[a] Determine if additional controls are necessary, or that existing controls are insufficient and require replacement with a different type of control.

[b] The DEPs are responsible for the selection and oversight of proper installation of appropriate control measures per guidance provided in the LANL Stormwater BMP Manual.

[10] **ITEM 9**: Check each sector of NPDES specified industrial area/activity is inspected for exposure to stormwater (e.g., metal fabrication; foundry operations; asphalt production; material recycling; warehouse and transportation activity; treatment and storage of hazardous waste).

[a] Determine if the control measures associated with each industrial area/activity are appropriate for the activity, effectively controlling stormwater exposure, and operating.

[b] Describe any non-operational condition of the control(s) and needed maintenance or a description of corrective actions in the Comment field of the task line.

[c] For industrial activities that do not occur at the facility, select “N/A”.

***NOTE:*** Unless the facility is entirely paved, it may have dust generation or tracking issues.

[11] Repeat Step 10 for each industrial area/activity shown on the work order if the facility has more than one sector of NPDES specified industrial area/activity.

[12] **ITEM 10**: Check the facility is free of any incidence of non-compliance not documented elsewhere on the inspection questionnaire. Describe any additional incidences of non-compliance in the Comment field of the task line.

[13] **ITEM 11**: Check the facility meets the MSGP requirements with existing control measures. Describe any additional control measures needed to comply with the Permit.

[14] **ITEM 12**: Additional notes, observations, or site conditions not documented in a question field above can be documented in the "Additional information" field.

[15] After all questions have been completed, click the "Save" button at the top of the page.

### 5.2 Completing the Inspection Form

See Attachment 1 for a screen shot example of completing EPC-CP-QP-2108 R1 Form 1 in ECMS.

[1] Ensure the inspection form has been filled out completely.

[2] **ITEM 13**: Click the Date Selector icon on the far right of the question. Select the date the **inspection was conducted** and ***not* the date the form was filled out**.

[a] IF work needs to be performed over multiple days,
THEN note the date and time the work began in the Additional information field (ITEM 12).

[3] **ITEM 14**: Document the time the inspection was conducted in the text field.

[4] **ITEM 15**: Click the magnifying glass icon on the far right of the question and select the name of the inspector conducting the inspection from the list.

[5] **ITEM 16**: Capture an electronic signature by drawing inside the dotted line box with a computer mouse on a desktop screen OR a finger on a tablet screen.

[6] Ensure the inspection form has been filled out completely.

[7] After all fields have been completed, make sure you have clicked the "Save" button at the top of the page.

[a] IF the inspection is filled out in the ECMS mobile application (MyECMS),
THEN also click the Submit button at the top of the page.

### 5.3 Completing the Certification Statement

The inspection form can be certified with signatures on a paper copy OR it can be certified with electronic signatures. See Attachment 1 for a screen shot example of the Certification Statement in EPC-CP-QP-2108 R1 Form 1.

[1] Open the completed inspection in the **ECMS main application** (http://ecms-prod.lanl.gov/ecms/).

[2] Print the complete inspection to a PDF format and save on the computer desktop.

[a] IF the certification will be signed on a paper copy,
THEN print the PDF and proceed to Step 4.

[b] IF the certification will be signed electronically,
THEN proceed to Step 3.

[3] Open the document in Adobe Acrobat Pro.

[a] Using the Text Box icon, add a text box on the "Print name and title" line.

[b] Using the Signature icon, add an electronic signature box on the "Signature" line.

[c] Using the Date icon, add a date box on the "Date" line.

[4] **ITEM 17**: Obtain a printed/typed name and title, signature, and date on the certification statement.

**The certification statement will be signed no more than 14 days after completion of the inspection and a copy sent to the EPC-CP Program Lead or designee.**

[a] The routine facility inspection form must be certified with a signature from a manager that meets the definition of a signatory in MSGP Permit Section B.11.A (e.g., FOD, Operations Manager, EPC-CP Group Leader, or EPC-CP Team Leader) or as identified as duly authorized signatories in the SWPPP.

[b] The manager is certifying the information submitted is "true, accurate, and complete" by signing the inspection form.

[5] Attach the completed, signed, and certified inspection form to the facility SWPPP.

[6] Submit a copy of the completed form to the MSGP Program Lead and/or ECMS database administrator.

## 6.0 TRAINING

The following personnel require training before implementing this procedure.

- EPC-CP MSGP stormwater compliance personnel,
- DEPs,
- Other LANL personnel identified as being required to conduct routine facility inspections as part of their job duties.

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES *Multi-Sector General Permit Program Implementation Plan*. This will include "self-study" (required reading) for this procedure. Other participating LANL groups may require training documentation

pursuant to local procedures. All training will be assigned and tracked using the LANL training management system, UTrain.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete "self-study" (required reading) of this procedure.

## 7.0 RECORDS

MSGP Routine Facility Inspections are signed and certified by individual LANL facilities. The completed forms are maintained in the facility's SWPPP and managed by the facility's document management system. Records must be maintained in accordance with P1020-1, *Laboratory Records Management.* The MSGP team may retain a copy for reference purposes.

Records generated as a result of implementing this procedure are identified by title and type below.

| Record Title | QA Record | Non-QA Record |
|---|---|---|
| EPC-CP-QP-2108 R1 Form 1, *MSGP Routine Facility Inspection* | ☒ | ☐ |

## 8.0 DEFINITIONS AND ACRONYMS

### 8.1 Definitions

See LANL *Definition of Terms*.

**Control Measure** – Any stormwater control or other method (including narrative effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

### 8.2 Acronyms

See LANL Acronym Master List.

| | |
|---|---|
| BMP | Best Management Practice |
| ECMS | Environmental Compliance Management System |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs |
| DEP | Deployed Environmental Professional |
| FOD | Facility Operations Director |
| LANL or Laboratory | Los Alamos National Laboratory |
| MSGP or Permit | Multi-Sector General Permit |
| NPDES | National Pollutant Discharge Elimination System |
| SCM | Stormwater Control Measure |
| SWPPP | Stormwater Pollution Prevention Plan |

## 9.0 REFERENCES

Unites States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated With Industrial Activity (MSGP), March 1, 2021.

Federal Register, National Pollutant Discharge Elimination System (NPDES) 2021 Issuance of the Multi-Sector General Permit for Stormwater Discharges Associated With Industrial Activity. Federal Register: February 19, 2021, Volume 86, Number 32.

Los Alamos National Laboratory Storm Water BMP Manual

P1020-1, *Laboratory Records Management*

P217, *Controlled Portable Electronic Devices*

EPC-CP-QP-2109, *MSGP Corrective Actions*

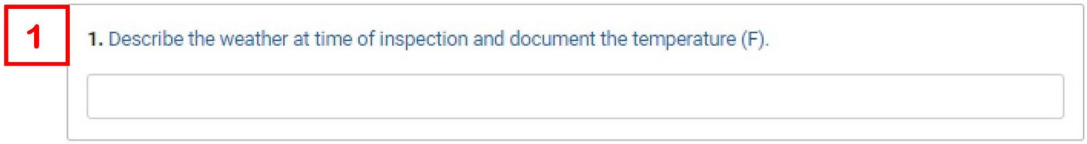
EPC-CP-PIP-2101, *NPDES Multi-Sector General Permit Program Implementation Plan*

## 10.0 ATTACHMENTS

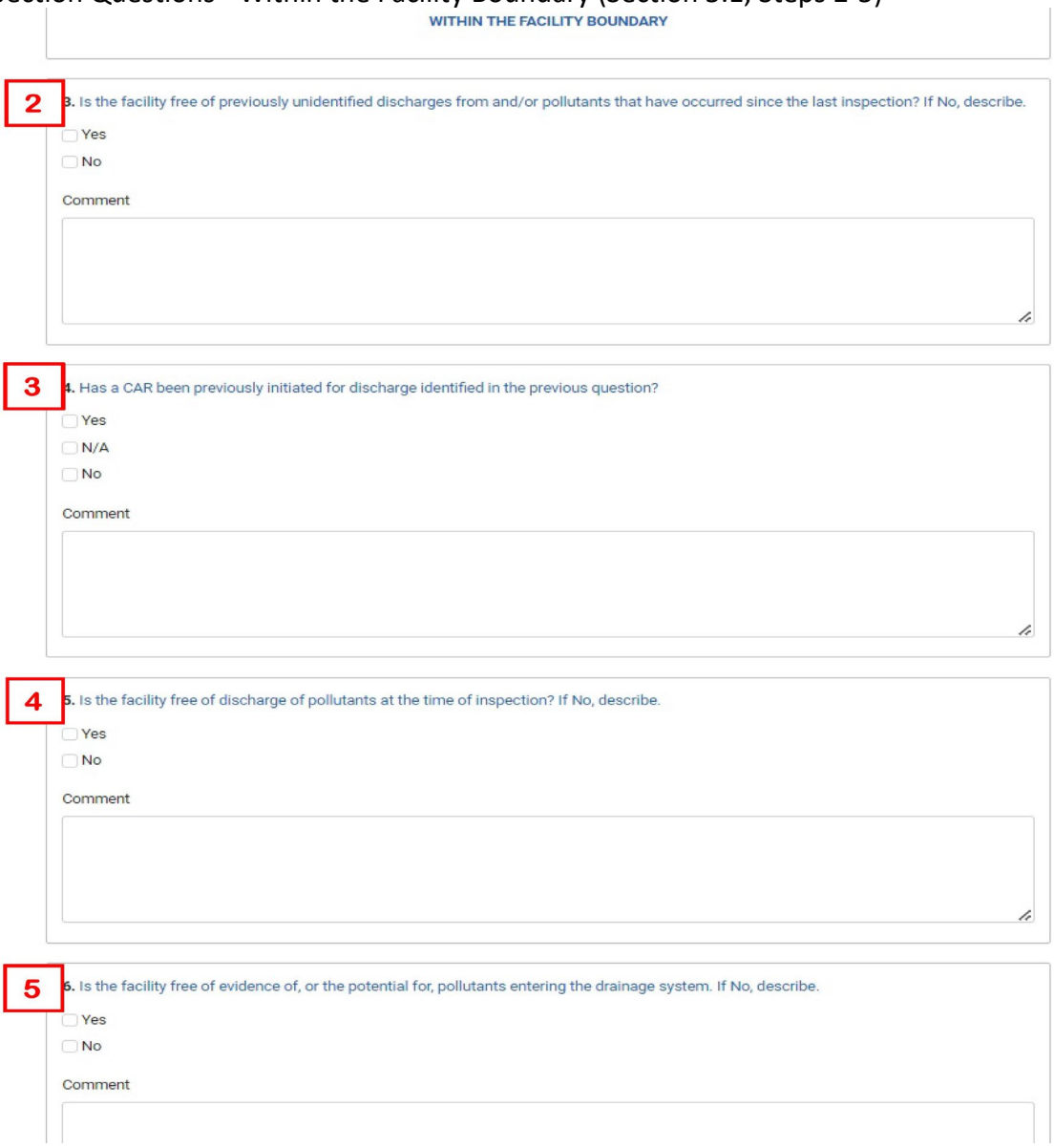
Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R1 Form 1, *MSGP Routine Facility Inspection* in ECMS

**Attachment 1: *MSGP Routine Facility Inspection* in ECMS**
**Screenshot Examples of EPC-CP-QP-2108 R1 Form 1**
(Page 1 of 5)

Inspection Questions - Weather (Section 5.1, Step 1)




Inspection Questions - Within the Facility Boundary (Section 5.1, Steps 2-5)



**Attachment 1: *MSGP Routine Facility Inspection* in ECMS (cont.)**
**Screenshot Examples of EPC-CP-QP-2108 R1 Form 1**
(Page 2 of 5)

Inspection Questions - Outfalls (Section 5.1, Steps 6-8)

**OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).**

6

**8.** Monitored Outfall 079: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- ☐ No
- ☐ Yes

Comment

7

**9.** Monitored Outfall 079: Are flow dissipation devices operating effectively?

- ☐ Yes
- ☐ N/A
- ☐ No

Comment

Inspection Questions – Control Measures (Section 5.1, Step 9)

**CONTROL MEASURES**

8

**11.** Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or a description of corrective action in text box below.)

- ☐ EnviroSoxx w/ MetalLoxx 0900103200005
- ☐ EnviroSoxx w/ MetalLoxx 0900103200006
- ☐ Erosion Control Blanked 0900101060004
- ☐ Gravel Mulch 0900101050002
- ☐ Riprap 0900104060003
- ☐ Vegetative Buffer Strip 0900102030001

Comment

**Attachment 1: *MSGP Routine Facility Inspection* in ECMS (cont.)**
**Screenshot Examples of EPC-CP-QP-2108 R1 Form 1**
(Page 3 of 5)

Inspection Questions – Areas/Activities Exposed to Stormwater (Section 5.1, Steps 10-11)

**AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).**

9

**13.** Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- ☐ Yes
- ☐ N/A
- ☐ No

Comment

**14.** Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- ☐ Yes
- ☐ N/A
- ☐ No

Comment

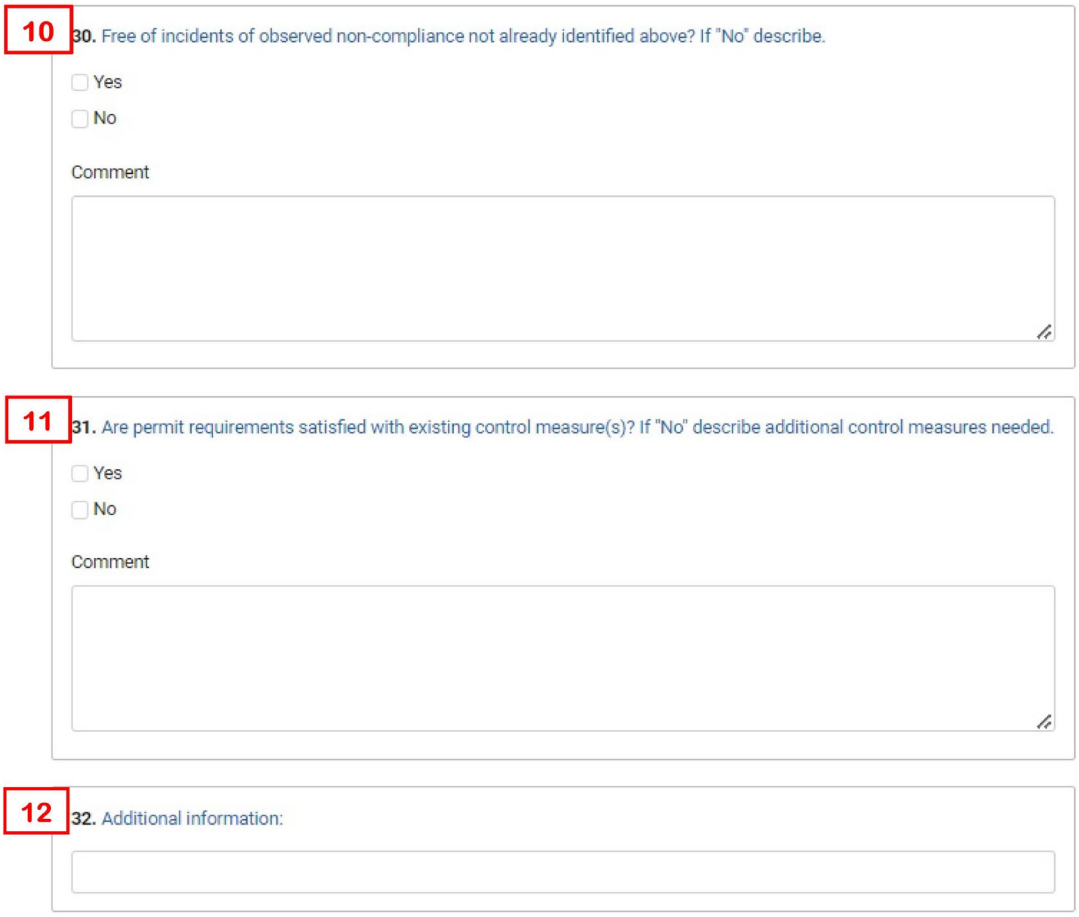
**15.** Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- ☐ Yes
- ☐ N/A
- ☐ No

Comment

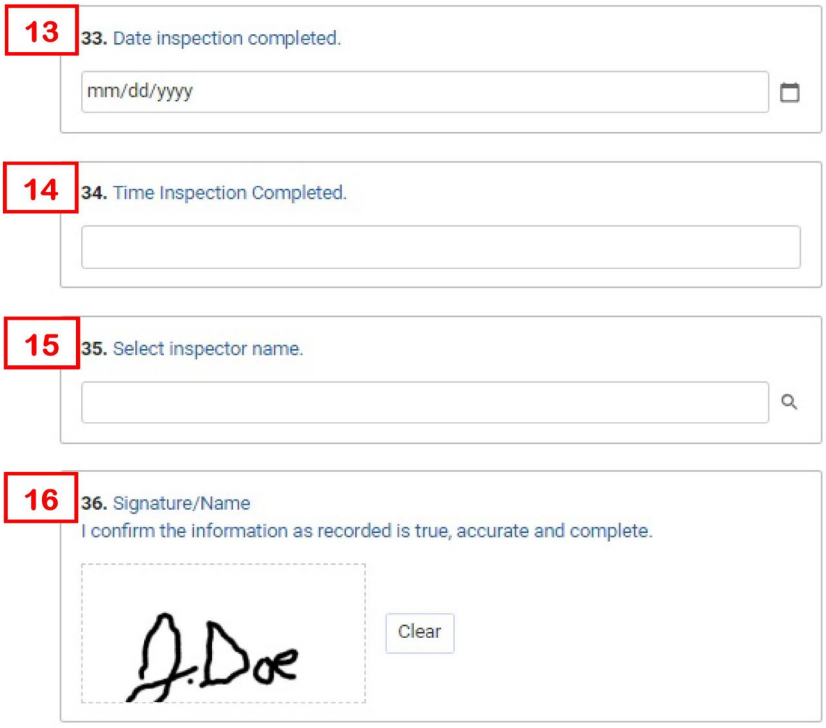
**Attachment 1: *MSGP Routine Facility Inspection* in ECMS (cont.)**
**Screenshot Examples of EPC-CP-QP-2108 R1 Form 1**
(Page 4 of 5)

Inspection Questions –Facility and Additional Information (Section 5.1, Steps 12-14)

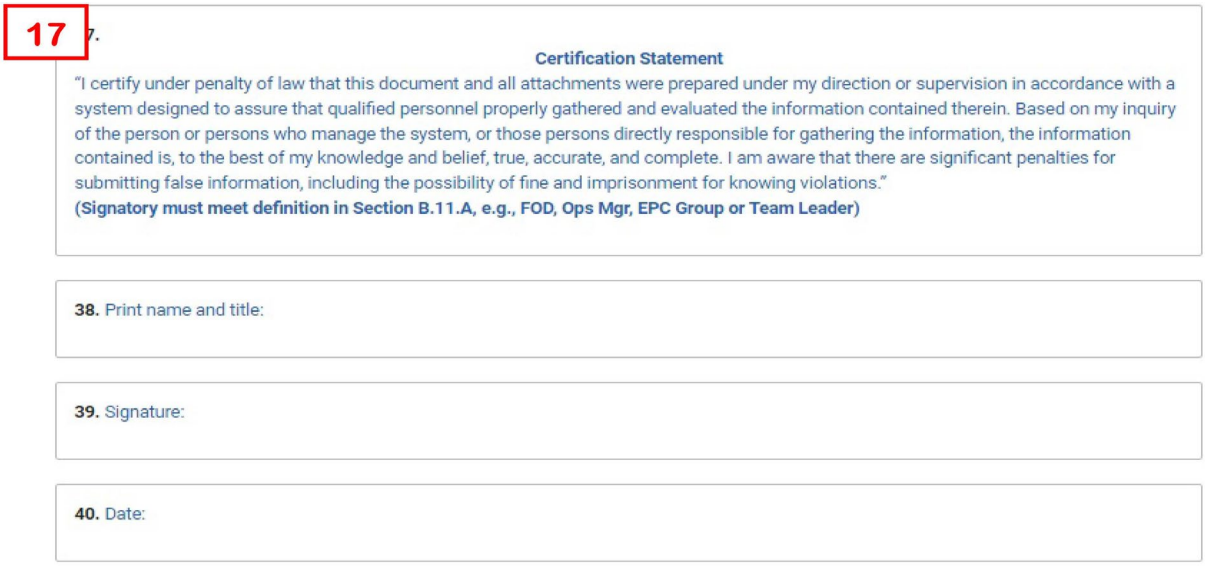


**Attachment 1: *MSGP Routine Facility Inspection* in ECMS (cont.)**
**Screenshot Examples of EPC-CP-QP-2108 R1 Form 1**
(Page 5 of 5)

Inspection Questions –Completing the inspection form (Section 5.2, Steps 2-5)




Inspection Questions - Certification Statement (Section 5.3, Step 4)



## ATTACHMENT 17: EPC-CP-QP-2109, MSGP CORRECTIVE ACTIONS

| | | |
|---|---|---|
| **EPC-CP-QP-2109** | Revision: **0** | Los Alamos NATIONAL LABORATORY |
| Effective Date: 06/02/2022 | Next Review Date: 06/02/2025 | |

**Environment, Safety, Health, and Quality, Safeguards and Security Directorate**

**Environmental Protection and Compliance Division – Compliance Programs**

**Quality Procedure**

# MSGP Corrective Actions

| | | | |
|---|---|---|---|
| **Hazard Grading:** | ☒ Low | ☐ Moderate | ☐ High/Complex |
| **Usage Level:** | ☒ Reference | ☐ UET | ☐ Mixed: UET Sections: _____ |
| **Status:** | ☐ New | ☒ Major Revision | ☐ Minor Revision |
| | ☐ Review w/No Changes | | ☐ Other: _____ |
| **Safety Basis:** | ☒ N/A | ☐ USQ | ☐ USI Number: _____ |

**Document Owner/Subject Matter Expert:**

| Name: | Organization: | Signature: | Date: |
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| Holly L. Wheeler | EPC-CP | Signature on File | 05-05-2022 |

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| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Steven E. Wolfel | EPC-CP | Signature on File | 05-06-2022 |

**Approval Signatures:**

| | | | |
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## Revision History

| **Document Number and Revision** *[Include revision number, beginning with Revision 0]* | **Effective Date** *[Document Control Coordinator inserts effective date]* | **Description of Changes** *[List specific changes made since the previous revision]* |
|---|---|---|
| 0 | 08/10 | New Document. |
| 1 | 11/10 | Incorporated EPC-CP-QP-062 *MSGP Routine Inspections* into this document. |
| 2 | 01/13 | Biennial revision, new template implemented. |
| EPC-CP-QP-022 R3 | 12/20/2018 | Revision to reflect new 2015 MSGP requirements. New procedure format was used, and organizational changes made. This document replaces ENV-RCRA-QP-022, R2, which was split into EPC-CP-QP-023, R0, MSGP Industrial Stormwater Routine Facility Inspections, and EPC-CP-QP-022, R3, MSGP Corrective Actions. |
| EPC-CP-QP-2109 R0 | 06/02/2022 | This document replaces/supersedes EPC-CP-QP-022 R3. This Revision incorporates new 2021 MSGP permit requirements, a new document number, and other organizational updates. |

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## 1.0 INTRODUCTION

The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) contains specific environmental requirements for identifying, implementing, documenting, and reporting conditions requiring corrective actions. Laboratory personnel [the Deployed Environmental Professionals (DEPs)] and the Environmental Protection and Compliance Division – Compliance Programs (EPC-CP) Storm Water Permitting/Compliance Team (also referred to as EPC-CP MSGP stormwater personnel) are required to perform routine facility inspections and document all identified conditions requiring corrective actions on an inspection form (see EPC-CP-QP-2108). Conditions requiring corrective actions can be identified during facility walk-downs, normal daily operations, and/or analytical data evaluations, and can be identified by facility personnel, the DEP, or EPC-CP MSGP stormwater personnel.

### 1.1 Purpose

This procedure governs the activities of Laboratory personnel working for Triad National Security, LLC (Triad) at Los Alamos National Laboratory (LANL) involved in identifying, implementing, documenting, and entering a condition requiring corrective action. This includes entering a permit limit exceedance or Additional Implementation Measures (AIM) level into the MSGP Corrective Action Report (CAR) database. Part 5.3 of the MSGP permit contains specific documentation requirements relative to corrective actions and AIM. This procedure satisfies these requirements.

### 1.2 Scope

Requirements set forth in this document apply to personnel responsible for meeting the permit conditions on behalf of LANL industrial sites covered by the MSGP. This permit requires periodic inspection of sites and identification, implementation, documentation, tracking and reporting of conditions requiring corrective actions.

### 1.3 Applicability

This procedure applies to EPC-CP MSGP stormwater personnel and DEPs who conduct stormwater inspections and monitoring activities at permitted MSGP sites within LANL.

## 2.0 PRECAUTIONS AND LIMITATIONS

Actions specified within this procedure, unless preceded with “should” or “may,” are to be considered mandatory guidance (i.e., “shall”).

The hazard level for field activities and office work described in this procedure is a **LOW hazard** rating and does not require an Integrated Work Document (IWD).

Inspections or walk-downs may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or open burning).

## 3.0 PREREQUISITE ACTIONS

### 3.1 Planning and Coordination

DEPs and EPC-CP MSGP stormwater personnel require a CAR database user account (MSGP-CAR). Facility Operations Directors (FODs), Operations (Ops) Managers and other managers can request a read-access account by contacting the EPC-CP MSGP data administrator for access.

### 3.2 Tools and Equipment

Tools and equipment for documenting inspections and updating the CAR database include the following:

- LANL issued desktop computer, tablet or notebook style computer with Safari web browser and Blackberry UEM™app. (See https://int.lanl.gov/policy/documents/P217.pdf for requirements on using portable electronic devices (PEDs) on Laboratory property); and
- Access to the CAR database.

Tools and equipment for field work associated with performing inspections and site walk-downs are listed below.

- Sturdy hiking boots or steel or composite toed shoes with soles that grip.
- Safety glasses, if required by site.
- Government issued cell phones are not allowed in secure spaces. Government or privately owned vehicles located inside a LANL secure area but outside any Secure Space boundaries (e.g., the outside of a building) serve as approved storage containers for controlled PEDs. See https://int.lanl.gov/policy/documents/P217.pdf for requirements on using PEDs on Laboratory Property.)
- Copy of this procedure.
- Copy of facility specific Stormwater Pollution Prevention Plan (SWPPP) and map(s) (as needed).
- Necessary access.
- Stockpile of temporary and permanent stormwater control measures (SCMs), e.g., inlet protection, absorbent pads for spills, gravel bags, S-Fence, wattles, etc.

## 4.0 ROLES AND RESPONSIBILITIES

Specific roles and responsibilities for implementation of requirements contained in the MSGP are provided below.

### 4.1 EPC-CP MSGP Stormwater Personnel

EPC-CP MSGP stormwater personnel are fully knowledgeable of the specific regulatory requirements identified in the MSGP. Additional responsibilities are listed below.

- Implement this procedure.
- Oversee the corrective action process.
- Identify an AIM triggering condition or other conditions requiring corrective action during internal routine facility inspections, “no exposure” assessments, and/or facility walk-downs performed by them, or during evaluation of monitoring data when permit limits are exceeded.
- Perform a quality review of conditions requiring corrective action submitted in the CAR database.
- Notify managers and/or legal counsel of non-compliances.
- Assist DEPs and other customers with issues associated with the CAR database.
- Prepare and submit 45-day or 90-day exceedance notifications to Region 6, Environmental Protection Agency (EPA) containing information provided by the DEP.
- Prepare and submit the Annual Report summarizing all conditions requiring corrective action for the year in EPA’s electronic NPDES eReporting tool (NeT).
- Prepare management requested metrics relative to conditions requiring corrective action.
- Provide information to the Issues Management Coordinator (IMC) for entering permit limit exceedances and other permit violations into the Issues Management (IM) tool; and
- Train personnel to use the CAR database.

### 4.2 Deployed Environmental Professionals

DEPs will be fully knowledgeable of the site-specific SWPPP for their assigned sites and corrective action requirements identified in the MSGP. As part of training, they will conduct an MSGP Routine Facility Inspection (RFI) with the MSGP Program Lead, or other designee, a minimum of once per year. During this activity, the MSGP Program Lead will determine if additional joint inspections are needed and will coordinate any additional inspections with the DEP, as appropriate. Further, they shall be familiar with facility operations and stormwater control measures to minimize potential pollutant sources in stormwater discharge from the site, and proactively maintain control in an attempt to prevent conditions that require corrective action.

The DEPs are responsible for implementing this procedure. They will identify conditions requiring corrective actions observed at their industrial sites and enter them into the CAR database. DEPs act as a liaison between the FOD, EPC-CP, DEP Team Leader, Operations Manager, and facility/operations personnel to ensure all corrective actions and AIM triggering conditions are addressed appropriately by overseeing maintenance and/or installation of additional controls, as needed. DEPs are responsible for ensuring a corrective action is completed per MSGP requirements and the corrective action timeline (see Parts 5.1.3, 5.2, and 5.2.2 of the MSGP). They also provide timely updates to the CAR database for closure or update of corrective actions as they are implemented.

When permit limits are exceeded, DEPs facilitate review of the condition requiring corrective action by the Stormwater Pollution Prevention Team and coordinate the effort to identify the source and maintain existing controls, as well as implement additional controls, to prevent further exceedances.

If the DEP or EPC-CP MSGP stormwater personnel determine that additional controls are necessary, or that existing controls are insufficient and require replacement with a different type of control, the DEPs are responsible for the selection and oversight of proper installation of appropriate control measures per guidance provided in the LANL Stormwater BMP Manual.

**CAUTION**

**Failure to appropriately control pollutant discharges can result in fines and penalties.**

Implementing the same SCM numerous times without an improvement in minimization of off-site pollutants is an indication that the control measure is not stringent enough to meet Technology-Based or Water Quality-Based effluent limits or AIM triggering conditions identified in the MSGP. AIM level triggering conditions require sequential and increasingly robust responses when a benchmark exceedance occurs and require additional SCMs to be implemented.

DEPs will notify the EPC-CP MSGP data administrator or MSGP Program Lead of key personnel changes (FOD, Ops Manager, additional DEP, or other key managers) to ensure automated CAR status notifications are distributed to appropriate personnel.

### 4.3 EPC-CP Storm Water Permitting/Compliance Team Leader

The EPC-CP Storm Water Permitting/Compliance Team Leader (or team leader) is responsible for compliance oversight relative to the MSGP. The team leader will ensure resources needed to implement the regulatory requirements identified in the MSGP are identified and environmental risks are assessed. Upper management will be notified of these resources or environmental risks, as deemed necessary. The team leader may certify MSGP discharge monitoring reports or RFIs. In the event there is a dispute regarding the regulatory requirements contained in the MSGP, the team leader will make the final determination of the required action. The team leader notifies upper management of instances of non-compliance with the permit.

### 4.4 EPC-CP Group Leader

The EPC-CP Group Leader or designee is responsible for ensuring there are adequate resources to implement the regulatory requirements identified in the MSGP. The group leader may also act as the duly authorized signatory that certifies the Annual Report. The group leader notifies upper management of instances of non-compliance with the permit or other identified environmental risk.

### 4.5 DEP Team Leader

The DEP Team Leader works with programmatic entities and the FOD to identify resources for their industrial sites to ensure permit requirements are implemented. The team leader is responsible for

the performance of DEPs. The team leader also provides oversight for ensuring that industrial sites are complying with the MSGP and is responsible for coordinating with the EPC-CP Storm Water Permitting/Compliance Team Leader and MSGP Program Lead and/or upper management for instances of non-compliance with the permit or other identified environmental risk the team leader becomes aware of. In addition, the DEP Team Leader may certify MSGP SWPPPs.

### 4.6 Facilities Operations Director

The FOD provides organizational leadership to ensure that all facility and programmatic activities under their authority are performed in compliance with the MSGP. The FOD is also responsible for establishing an environmental compliance envelope. The FOD is responsible for developing, implementing, enforcing, and maintaining the SWPPP, and is accountable for SWPPP requirements applicable to their facility. In addition, they are responsible for maintaining trained and qualified DEPs and Waste Management Coordinators (WMCs) on staff.

## 5.0 PROCESS DESCRIPTION

Requirements regarding corrective actions are described in Part 5 of the MSGP. These requirements and conditions are summarized in this section and directly correspond to data fields and lists of values available in the CAR database.

### 5.1 Identifying Conditions Requiring Corrective Actions

**DEP**

[1] **IF** any of the following conditions are identified,

**THEN** review and revise, as appropriate, the selection, design, installation, and implementation of control measures in the SWPPP to eliminate the condition and prevent recurrence in the future so LANL's effluent limits are met, and pollutant discharges are minimized.

- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by the MSGP [see Section 5.6 of this procedure for a description of allowable discharges]).
- A discharge violates a numeric effluent listed in Table 2-1 of the MSGP and/or sector-specific requirements identified in Part 8 of the permit.
- SCMs are not stringent enough for stormwater discharge to be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards or to meet the non-numeric effluent limits in the permit.
- It is observed during the routine facility inspection, facility walk-down, and/or the quarterly visual assessment that the control measures are not being properly operated and maintained.
- An AIM triggering condition occurred (i.e., the average of four quarterly sampling results exceeds an applicable benchmark).

- A visual assessment shows evidence of stormwater pollution.
- Construction or a change in design, operation, or maintenance at the facility significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged.

**DEP and/or EPC-CP MSGP stormwater personnel**

[2] Enter all conditions triggering the need for corrective action review into the EPC-CP MSGP CAR database within 24 hours of becoming aware of such condition.

**DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)**

[3] Take immediate action to mitigate the condition requiring a corrective action.

[4] If needed, follow the permit timeline and process for an individual corrective action or AIM level triggering condition that requires maintenance or installation of additional SCMs.

[5] Any person authorized to conduct work at LANL can identify a potential stormwater issue. If this occurs, they will:

[a] Contact the DEP or EPC-CP MSGP stormwater personnel.

[b] The DEP or EPC-CP MSGP stormwater personnel will determine if a condition exists that requires a corrective action or AIM level triggering condition.

## 5.2 Corrective Action and AIM Level Deadlines and Documentation

Specific deadlines for taking corrective action or additional implementation measures, as well as required documentation are provided in the subsections below.

### *5.2.1 Immediate Action*

**DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)**

[1] **IF** a condition exists that requires corrective action, as described in Section 5.1 [1], **THEN** take the following action immediately (on the same day the condition is found):

[a] Minimize or prevent the discharge of pollutants, taking all reasonable steps necessary, until a permanent solution is installed and made operational.

[b] Clean up any contaminated surfaces so that material will not discharge during subsequent storm events.

| **NOTE** |
|---|
| For minor conditions, immediate action is often sufficient, and no additional action is necessary. |

[2] **IF** a condition is identified at a time in the workday when it is too late to initiate corrective action (i.e., 3:00 pm or later),
**THEN**:

[a] Corrective action will begin no later than the following workday morning.

[b] Implement the requirements identified in Section 5.2.1 [1] above.

[c] Enter the following information in the MSGP CAR database:

- For spills or leaks provide a description of the incident and include material, date/time, amount, location, why the spill occurred and whether it resulted in the discharge of pollutants to waters of the U.S., through stormwater discharge or otherwise.
- Date the condition was identified; and
- Description of immediate actions taken (see Part 5.1.3.1) to minimize or prevent the discharge of pollutants. For spills or leaks, include the response actions, date/time clean-up was completed, notification made, and the staff involved. Include any measures taken to prevent the reoccurrence of such releases.

**CAUTION**

Solely calling or e-mailing personnel to request action to be taken is not considered taking immediate action. Entering a Facility Service Request (FSR) is appropriate if it formally starts the work process to address the condition. Temporary Best Management Practices (BMPs) still need to be put in place to minimize or prevent off-site migration of pollutants, especially if a storm event is likely.

### *5.2.2 Subsequent Action*

**DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)**

[1] **IF** additional action is required,
**THEN**:

[a] Complete the corrective action (e.g., install a new, or modify an existing stormwater control and make it operational, or complete a repair) before the next storm event or within 14 calendar days from the time of discovery.

[b] For an AIM Level 1 exceedance, review the SWPPP and implement additional measures (considering good engineering practices) that will bring the exceedance below the benchmark threshold.

[c] When a determination is made that no additional action is required, document in the CAR database, why existing control measures will bring the exceedance (for AIM Level 1) below the benchmark threshold for the next 12 months.

[d] Enter the dates when each condition was completed (or is expected to be completed) in the CAR database.

[2] **IF** completion of the corrective action is infeasible within the 14-day timeframe, **THEN**:

[a] Document the rationale and a schedule for completion of the corrective action in the CAR database.

[c] Complete the corrective action within 45 days of discovery.

[d] Modify the SWPPP (within 14 calendar days of completing corrective action work) to add changes to controls or administrative procedures.

[3] **IF** completion of the corrective action will not occur within the 45-day timeframe, **THEN**:

[a] On day 40, notify the EPC-CP Program Lead that the 45-day timeframe will be exceeded. Provide a schedule for completion of the corrective action and rationale for the extension. An extension beyond 45 days is not permitted for an AIM Level 1 exceedance.

**NOTE**

These time intervals are not grace periods, but are schedules considered reasonable for documenting findings and for making repairs and improvements. They are included in the MSGP to ensure that the conditions prompting the need for these repairs and improvements do not persist indefinitely (see Part 5.1.3.2 of the MSGP).

**EPC-CP MSGP stormwater personnel**

[b] Prepare and submit 45-day exceedance notification to EPA Region 6 by day 45 based on information entered into the CAR database by the DEPs.

[4] In the case of an AIM Level 1 exceedance, send out notification to EPC-CP stormwater field personnel to stop monitoring at the outfall for the parameter that exceeded benchmark.

[a] Once the condition requiring corrective action has been closed, send notification to EPC-CP stormwater field personnel to start monitoring at the outfall for the parameter that exceeded benchmark.

[5] Continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering condition, beginning no later than the next full quarter after completion of additional measures.

[6] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering condition has not occurred after four quarters of monitoring,
**THEN**:

[a] Discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of the permit or discontinue monitoring for the remainder of the permit term (if after year four).

### *5.2.3 AIM Level 2*

**DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)**

[1] **IF** an AIM Level 2 exceedance occurs,
**THEN**:

[a] Review the SWPPP, and

[b] Implement additional pollution prevention/good housekeeping SCMs (considering good engineering practices) within 14 calendar days of identification, beyond what was implemented for the AIM Level 1 response. This action is expected to be sufficient to bring the exceedance below the benchmark threshold.

[2] **IF** completion of the corrective action is infeasible within the 14-day timeframe,
**THEN**:

[a] Document the rationale and provide a schedule for completion of the corrective action in the CAR database.

[b] Complete the corrective action within 45 days of identification of the condition.

[c] Update the CAR database to include:

- Actions taken and/or outstanding, and
- Date and time the corrective action was completed.

[3] **IF** completion of the corrective action will not occur within the 45-day timeframe,
**THEN**:

[a] On day 40, notify the EPC-CP Program Lead that the 45-day timeframe will be exceeded. Provide a schedule for completion of the corrective action and rationale for the extension.

**EPC-CP MSGP stormwater personnel**

[b] Prepare and submit the 45-day exceedance notification to EPA Region 6 based on information entered into the CAR database by the DEP.

[4] Send out notification to EPC-CP stormwater field personnel to stop monitoring at the outfall for the parameter that exceeded benchmark.

[a] Once the condition requiring corrective action has been closed, send notification to EPC-CP stormwater field personnel to start monitoring at the outfall for the parameter that exceeded benchmark.

[5] Continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering condition, beginning no later than the next full quarter after completion of additional measures.

[6] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering condition has not occurred after four quarters of monitoring,
**THEN**:

[a] Discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of the permit or discontinue monitoring for the remainder of the permit term (if after year four).

### *5.2.4 AIM Level 3*

**DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)**

[1] **IF** an AIM Level 3 exceedance occurs,
**THEN**:

[a] Identify the schedule for installing the appropriated structural source and/or treatment SCMs within 14 days.

[b] Install structural source controls (e.g., permanent controls such as permanent cover, berms, and secondary containment), and/or treatment controls (e.g., sand filters, hydrodynamic separators, oil-water separators, retention ponds, and infiltration structures) within 60 days.

[c] Controls, treatment technologies, or treatment train will be appropriate for the pollutants that triggered the AIM Level 3 and must be more rigorous that the control measures implemented for the AIM Level 1 and 2 responses.

2] **IF** completion of the corrective action is infeasible within the 60-day timeframe,
**THEN**:

[a] Document the rationale and provide a schedule for completion of the corrective action in the CAR database.

[b] Complete corrective action within 90 days of identification of the condition.

[c] Update the CAR database to include:

- Actions taken and/or outstanding, and
- Date and time the corrective action was completed.

[3] **IF** completion of the corrective action will not occur within the 90-day timeframe,
**THEN**:

[a] On day 85, notify the EPC-CP Program Lead that the 90-day timeframe will be exceeded. Provide a schedule for completion of the corrective action and rationale for the extension.

**EPC-CP MSGP stormwater personnel**

[b] Prepare and submit the 90-day exceedance notification to EPA Region 6 by day 90 based on information entered into the CAR database by the DEP.

[4] Send out notification to EPC-CP stormwater field personnel to stop monitoring at the outfall for the parameter that exceeded benchmark.

[a] Once the condition requiring corrective action has been closed, send notification to the EPC-CP stormwater field personnel to start monitoring at the outfall for the parameter that exceeded benchmark.

[5] Continue quarterly benchmark monitoring at all affected outfalls for the next four quarters for the parameter(s) that caused the AIM triggering condition, beginning no later than the next full quarter after completion of additional measures.

[6] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering condition has not occurred after four quarters of monitoring,
**THEN**:

[a] Discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of the permit or discontinue monitoring for the remainder of the permit term (if after year four).

[7] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering event has occurred after four quarters of monitoring,
**THEN**:

[a] EPA may require the operator to apply for an individual permit.

### *5.2.5 AIM Exceptions*

An AIM Level exceedance may qualify for an exception from specific AIM requirements and continued benchmark monitoring, provided the requirements to demonstrate qualification of the exception are followed (see Parts 5.2.6.1 through 5.2.6.5 of the permit). These exceptions include the following:

- Solely attributable to natural background pollutant levels;
- Due to run-on;
- Due to an abnormal event;
- Demonstrated to not result in an exceedance to facility-specific value using the national recommended water quality criteria in-lieu of the applicable MSGP benchmark threshold (for aluminum and copper benchmark parameters only); or
- Demonstrated to not result in any exceedance of water quality standards.

There are very specific and complicated documentation requirements and time frames that have to be met to qualify for any of these exceptions. Therefore, any demonstration to qualify for an exception will be coordinated through a representative of the EPC-CP Storm Water Permitting/Compliance Team.

### 5.3 Effect of Corrective Action

When the condition requiring corrective action is a permit violation (e.g., non-compliance with an effluent limit or exceedance of a water quality standard), correcting it does not remove the original violation. Additionally, failing to take corrective action in accordance with Part 5 of the MSGP is an additional permit violation.

**NOTE**

The EPA will consider the appropriateness and promptness of corrective action in determining enforcement responses to permit violations (Part 5.1.4 of the MSGP).

### 5.4 Substantially Identical Discharge Points

When the condition requiring corrective action is associated with an outfall that has been identified as a "substantially identical discharge point" (see Parts 3.2.4.5 and 4.1.1 of the MSGP), a review will assess the need for corrective action for all related substantially identical discharge points. Any necessary changes to control measures that affect these other discharge points will be made before the next storm event (if possible), or as soon as practicable following that storm event. Any condition requiring corrective action(s) will be addressed within the timeframes set forth in Parts 5.1.3, 5.2.3.2, 5.2.4.2 and 5,2.5.2 of the MSGP (also see Section 5.2 of this procedure).

### 5.5 Spills

**DEP and/or Facility Personnel**

[1] Clean up all leaks or spills immediately and enter the condition requiring corrective action into the CAR database.

[a] If the spill is immediately cleaned up, and controls are implemented to prevent further leakage, the condition requiring corrective action can be closed.

### 5.6 Allowable Non-Stormwater Discharges

The following are allowable non-stormwater discharges authorized by the MSGP:

- Discharges from emergency/unplanned fire-fighting activities;
- Fire hydrant flushing;
- Potable water, including water line flushing;

- Uncontaminated condensate from air conditioners, coolers/chillers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Irrigation/landscape drainage, provided all pesticides, herbicides, and fertilizers have been applied in accordance with the approved labeling;
- Pavement wash waters, provided that detergents or hazardous cleaning products are not used (e.g., bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols), and wash waters do not come into contact with oil and grease deposits, sources of pollutants associated with industrial activities (see Part 6.2.3 of the MSGP), or any other toxic or hazardous materials, unless residues are first cleaned up using dry clean-up methods (e.g., applying absorbent material and sweeping, using hydrophobic mops/rags) and appropriate control measures have been implemented to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement);
- External building/structure washdown / power wash water that does not use detergents or hazardous cleaning products (e.g., those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols) and control measures are in place to minimize discharge of mobilized solids and other pollutants (e.g., filtration, detention, settlement);
- Uncontaminated ground water or spring water;
- Foundation of footing drains where flows are not contaminated with process materials;
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but not intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown or drains); and
- Any authorized non-stormwater discharge (see above bullets) or any stormwater discharge authorized by the permit mixed with a discharge authorized by a different NPDES permit and/or discharge that does not require NPDES permit authorization.

### 5.7 Entering a Condition Requiring Corrective Action

To enter a condition requiring corrective action into the CAR database, perform the steps in this section.

Enter clear, complete, and concise language. Correct grammar, punctuation, and spelling errors.

Select the appropriate value from each pull-down menu that applies to the condition requiring corrective action. This information is used to populate a report submitted to the EPA and is extracted from the database to populate automatic e-mail notifications to managers. Therefore, it is critical that all information entered into the CAR database is correct.

**DEP or EPC-CP MSGP stormwater personnel**

[1] Using Firefox, Chrome, or Edge, access the CAR database at epc.lanl.gov.

[2] From the main screen, click on “Multi-Sector General Permit Corrective Action Report (MSGP-CAR).”

[3] Click on "Enter/Edit CAR Data."

[4] Click on the black box at the right of the screen "Create New CAR."

[a] Enter the following (refer to Attachment 1 for data entry screenshot cross reference to Item numbers in red listed below):

- Item 1: Name of facility by clicking on the down indicator and selecting the relevant facility (e.g., TA-55-0005 Warehouse). If the correct facility does not show up, hit the "Load More Rows" button at the bottom of the screen.
- Item 2: Provide information about the specific location where the condition requiring corrective action was found (e.g., the northeast corner of the TA-60 Material Recycling Facility).
- Item 3: Date/Time the problem was identified (mm/dd/yyyy hh:mm) (*the inspection date or the date you first become aware of the issue*). Click on the calendar to the right of the screen and select the correct date. Change the gray buttons to indicate the correct time (hh:mm).

  All dates and times will be entered as mm/dd/yyyy hh:mm in 24-hr (military time) format. Time is tracked to document whether immediate action was taken, whether the issue was documented within 24 hours, and the specific time interval before a corrective action is completed and closed (see Section 5.2 of this procedure for corrective action and AIM Level deadlines). Do not leave time as 00:00 (the system default) unless the action occurred at midnight.
- Item 4: FOD by clicking on the down button on the right of the screen and selecting the correct entity (e.g., WFO).
- Item 5: Date/Time of Notification to EPC-CP (mm/dd/yyyy hh:mm) (*the date the condition is entered into the CAR database or verbal, or written notification is provided to the EPC-CP MSGP Program Lead. Conditions reported by verbal or written notification must still be entered into the CAR database*.) Click on the calendar to the right of the screen and select the correct date. Change the gray buttons to indicate the correct time (hh:mm). All dates and times will be entered as mm/dd/yyyy hh:mm in 24-hr (military time) format.
- Item 6: Provide the Z number of the Inspector by typing in the actual Z number, if not already populated correctly. The Z number of the person logged into the database will populate this field.
- Item 7: Provide the Z number of the person that identified the condition requiring corrective action, if not already populated correctly. The Z number of the person logged into the database will populate this field.

  Any person authorized to conduct work at LANL can identify a potential stormwater issue. If this occurs, they will contact the DEP or EPC-CP MSGP stormwater personnel who will determine if a condition exists that requires corrective action.

- Item 8: Report status defaults to "A new corrective action" without making a selection. In the event a condition is entered that is determined to not require corrective action, this status can be changed to "Void" by clicking in the box and selecting from the Status list. The decision to assign a status of "Void" is at the discretion of EPC-CP MSGP stormwater personnel and reserved for EPC-CP use.
- Item 9: If the Status is changed to "Void," enter a clear rationale for voiding the record.
- Item 10: Once all the above information is entered correctly, click "Save." Once the CAR is saved, the system will return to the CAR Data page, and your newly created CAR will be at the top of the list.

  All boxes identified with a red triangle are "required fields" meaning the form cannot be saved unless these fields are completed. For the purpose of fulfilling corrective action documentation requirements, all applicable fields are required fields.

[b] The system will automatically assign a Corrective Action Report identification (ID) number. Once the CAR is saved, the system will return to the CAR Data page, and your newly created CAR will be at the top of the list. Click on the pencil in the left part of the screen, then click "Create Finding Details" at the bottom right corner to enter finding information (see Attachment 1 page 4). Enter the following:

- Item 11 (see Attachment 1 page 5 of 7): Identify the condition triggering the need for this review by clicking on the down indicator at the right of the screen and selecting the appropriate condition. Most conditions requiring corrective action will meet one of the listed options. If it does not, select "Other" and enter a description of the condition (refer to Attachment 2 for a list of available conditions/finding descriptions).

  Qualified personnel (EPC-CP MSGP stormwater personnel and DEPs) must be knowledgeable of these conditions and select the correct one when entering an issue. If there is uncertainty about which condition applies, refer to the definitions in Section 8.1 of this procedure or contact the MSGP Program Lead at 667-1312 or hbenson@lanl.gov for clarification prior to selecting "Other."
- Item 12: If the condition in Item 11 (above) is set to "Other," enter a description of the condition in this field.
- Item 13: Enter "NA" (not applicable) for "outfall" unless the condition is an exceedance of a benchmark value, or numeric effluent limitation guideline (ELG), or the condition occurred at the MSGP outfall such as pollutants identified during a quarterly visual inspection (e.g., 022).
- Item 14: Briefly describe the nature of the problem identified during the inspection (e.g., erosion, damage to a SCM, trash, spill, etc.,) and the specific evaluation location (e.g., at TA-60 Roads and Grounds).

Spills or other emergency conditions meeting the criteria for corrective action (identified in Part 5.1 of the MSGP) will require documentation in the CAR database even though the condition was not identified during an inspection.

- Item 15: Enter "NA" for "AIM Level" unless an AIM triggering event has occurred. Only EPC-CP MSGP stormwater personnel enter this information.
- Item 16: Enter "NA" unless EPA Region 6 has approved documentation provided requesting the AIM exception. Only EPC-CP MSGP stormwater personnel enter this information.
- Item 17: Enter the inspection type by clicking on the downward arrow to the right of the screen and selecting the appropriated option. If none of the available options fit, selecting "Other."
- Item 18: If "Other" is selected for Item 17 (above), enter a description of how the problem was identified in this field.
- Item 19 (see Attachment 1 page 6 of 7): Enter a description of the condition requiring corrective action or identify action to be taken to eliminate or further investigate the problem (e.g., describe modifications or repairs to control measures, work conducted to address the condition or to be scheduled in the future, etc.,) or if no modifications are needed, the basis for that determination. Include relevant dates and facts when updating this field as the corrective action progresses.
- Item 20: Indicate whether the problem was identified at a Substantially Identical Discharge Point (SIDP) by typing "Y" for yes and "N" for no.
- Item 21: If the answer to Item 20 is "Y," enter the associated SIDP(s) in this field. If the answer to Item 20 is "N," leave this field blank. SIDPs are identified in the site-specific SWPPPs. For assistance with identifying SIDPs contact the MSGP Program Lead.
- Item 22: If the answer to Item 20 is "Y," describe how the corrective action taken is appropriate for all SIDPs, document any additional corrective action(s) needed for any of the SIDPs, or document why no additional action is needed for the SIDPs. If the answer to Item 20 is "N," leave this field blank.
- Item 23: Did/will the corrective action require modification to the SWPPP? Type in "Y" for yes and "N" for no.
- Item 24: Date/Time Corrective Action was initiated (mm/dd/yyyy hh:mm).

  The duration between the Date/Time problem was identified and Date/Time corrective action was initiated is used to determine whether "immediate action" was taken (see Section 5.2.1 of this procedure). Immediate action is a requirement of the MSGP and therefore, is documented in accordance with permit requirements.

- Item 25 (see Attachment 1 page 7 of 7): Date/Time corrective action was completed **OR** (see Item 26 below).
- Item 26: Expected completion Date/Time (mm/dd/yyyy hh:mm), if the corrective action has not been completed. Once corrective action is complete [(as identified in Item 25 (above)], delete expected completion date. The system will not allow entry of a date in both locations.

  The duration between the Date/Time Problem was identified and Date/Time corrective action was completed, or the Date/Time Problem was identified and expected completion Date/Time is used to determine whether "subsequent action" timeframes and documentation requirements were/are being met. To forecast where a 45-day or 90-day (for AIM Level 3) exceedance notification to EPA is required (see Sections 5.2.2 and 5.2.4 of this procedure). When information is incorrect or not entered, the MSGP data administrator or Program Lead will contact the originator and request correction(s).
- Item 27: If the corrective action is not or will not be completed within 14 days (or 60 days for AIM Level 3), provide the status of the corrective action at the end of the 14- or 60-day timeframe. Include the rationale for why it is infeasible to complete the corrective action within 14 days, and a description of any remaining steps (including timeframe/schedule associated with each step) necessary to complete the corrective action.
- Item 28: Date EPA was notified of intent to exceed 45 Days (mm/dd/yyyy hh:mm) is to be completed by EPC-CP MSGP stormwater personnel to document submittal of notification letter.
- Item 29: Date EPA was notified of intent to exceed 90 Days (for AIM Level 3) (mm/dd/yyyy hh:mm) is to be completed by EPC-CP MSGP stormwater personnel to document submittal of notification letter.
- Item 30: Enter the date monitoring changed back to baseline status. This information is to be completed by EPC-CP MSGP stormwater personnel based on evaluation of benchmark monitoring.

Once all the above information is entered correctly, click "Save" in the lower right portion of the screen so the corrective action information is retained.

[5] **IF** there are additional conditions to enter requiring corrective action, as described in Section 5.1 [1],
**THEN** perform these steps:

[a] Click on the "Enter or Edit CAR Data" tab at the top of the screen.

[b] Start with Section 5.7, steps 3 and 4 above and enter the information for Items #1-30.

### 5.8 Updating Corrective Actions

**DEP or EPC-CP MSGP stormwater personnel**

[1] Access the CAR database at epc.lanl.gov.

[a] On the Environmental Protection Compliance (EPC) Applications page click "Multi-Sector General Permit Corrective Action Report (MSGP-CAR)."

(b) Click "Enter/Edit CAR Data and scroll down to the corrective action number to be edited.

[b] Click on the pencil associate with the CAR # to be edited.

[2] Navigate to the desired field and input the updated information. Most changes will occur relative to updating the status, schedule, and dates of corrective actions.

[3] Click "Apply Changes" on the bottom right portion of the screen to save all changes to the information. If you do not want to save the change(s), hit the "Cancel" button on the bottom left side of the screen.

### 5.9 Validation of Corrective Actions

**EPC-CP MSGP stormwater personnel**

[1] Access the CAR database at epc.lanl.gov.

[2] Ensure information entered into the CAR database is correct.

[a] Check all entered fields for a condition requiring corrective action to ensure that information is clear, correct, and concise.

[b] **IF** not,
**THEN** notify the DEP of the information that needs to be changed.

[c] The DEP is responsible for ensuring all information is validated before generating the annual report.

[3] **IF** the identified condition requiring corrective action is a repeat of a previous condition or if it is determined not to be a condition requiring corrective action,
**THEN**

[a] Under "Report Status," select "Void."

[b] Provide specific documentation as to why the CAR was voided.

[c] The "Void" designation allows MSGP stormwater personnel to manually exclude this information in the annual report.

### 5.10 Issues Management

EPC-CP MSGP stormwater personnel or DEPs use the IM tool as the institutional performance issues and tracking system for identified quality assurance (QA) affecting issues. A QA affecting issue includes, but is not limited to, the following conditions.

- Exceedance of a numeric ELG (i.e., at the Asphalt Batch Plant).
- Repeat conditions requiring corrective actions or trends identified by EPC-CP MSGP stormwater personnel.
- Conditions requiring immediate action, where failure to take action would result in pollutants released to waters of the state.
- Immediate non-compliance with the MSGP.
- Violations identified by the regulatory authority.

The MSGP Program Lead periodically evaluates a summary of open conditions requiring corrective actions in the CAR database. Using the above conditions, the MSGP Program Lead or DEP determines which corrective actions, if any, will be transferred into the IM tool.

**DEP or EPC-CP MSGP stormwater personnel**

[1] **IF** an issue needs to be entered into the IM tool,
**THEN** contact the EPC Division IMC for entry into the IM tool.

### 5.11 Automatic Notifications

[1] When a new condition requiring corrective action is entered into the CAR database, the FOD, Ops Manager, inspector (usually the DEP) and EPC-CP MSGP stormwater personnel and managers are notified automatically by e-mail on the evening of the day the corrective action was entered.

[2] Automated e-mail notifications is sent out during the corrective action process depending on the length of time it takes to close the action.

[3] A notification is sent out when:

- A new corrective action is entered into the database (see Attachment 3);
- Weekly for outstanding (open) corrective actions (see Attachment 4;
- A new AIM level (i.e., 1, 2 or 3) triggering event occurs;
- A corrective action due to a permit limit exceedance is complete; and
- An AIM level exceedance returns to baseline status.

For all notifications except the last two bullets above, a hyperlink is provided to a web-based report containing a list of all open issues and timeline status where final corrective actions have not been completed (see Attachment 5) by the FOD. The report contains the information:

- FOD,
- Facility,
- A unique Corrective Action identification number assigned by the CAR database,
- Name of the person identifying the condition,
- the date the problem was identified,
- the date the corrective action was initiated,
- the projected completion date,
- a color-coded count (corresponding to the Corrective Action deadlines in Section 5.2 et seq. of this procedure) of the number of days to take action,
- the number of days the issue has been open, and
- the problem description.

These notifications serve to apprise recipients of the status of conditions requiring corrective actions and provide sufficient time for MSGP stormwater personnel to provide documentation to EPA at the 45-day or 90-day deadline. These notifications also allow EPC-CP to manage monitoring status when AIM triggering events occur. In short, they assist the FOD, Ops Managers, DEPs, and EPC-CP stormwater personnel with keeping track of conditions requiring corrective actions.

## 6.0 TRAINING

The following personnel require training before implementing this procedure:

- EPC-CP Group Leader and Team Leader;
- EPC-CP MSGP stormwater personnel;
- DEPs; and
- Other LANL or subcontract personnel identified as being required to conduct stormwater inspections, or other assessments and enter conditions requiring corrective actions into the CAR database as part of their job duties.

The training method for this procedure is “self-study” (reading). Other participating groups may require training documentation pursuant to local procedures. All training must be assigned and tracked using the Laboratory training management system, UTrain.

Personnel performing this procedure will be familiar with the most current version of the following procedure:

- EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan.

## 7.0 RECORDS

Conditions requiring corrective actions are contained within the CAR database. DEPs will retain documentation substantiating these conditions, corrective actions, and timelines reported in the CAR database (e.g., e-mails, FSRs, Work Orders, etc., as appropriate). These documents shall be made available to EPC-CP upon request.

All records generated as a result of implementing this procedure will be maintained in accordance with P1020-1, Laboratory Records Management.

## 8.0 DEFINITIONS AND ACRONYMS

See LANL Definition of Terms.

### 8.1 Definitions

**Best Management Practice (BMP)** — Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of "waters of the United States." BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. (*40 CFR Part 122.2)*

**Control Measure** — Any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

**Numeric effluent limitation** — The degree of effluent reduction attainable by the application of the best practicable control technology currently available (see 40 CFR Part 443.12). For LANL, numeric effluent limitations apply only to the Asphalt Batch Plant (Sector D) (see Table 1-1 of the MSGP). Constituents with limitations for Sector D include Total Suspended Solids, pH, and oil and grease (see Table 8.D-3 of the MSGP).

**NOTE**

Exceedance of a numeric effluent limitation is a violation of the MSGP (see Part 4.2.3.1 of the MSGP).

**Non-numeric effluent limitations** — Per Part 2.1.2 of the MSGP, these include minimizing exposure, good housekeeping, maintenance, spill prevention and response, erosion and sediment controls, management of runoff, salt storage controls, employee training, elimination of non-stormwater discharges, and minimizing dust generation and vehicle tracking of industrial materials.

**Unauthorized release or discharge** — The release of any liquid or solid substance (within the boundary of an MSGP site) that is not an allowable non-stormwater discharge (see Section 5.6). Examples are hydraulic oil, gasoline, diesel, powdered concrete, concrete washout, steam condensate line leaks, etc.

## 8.2 Acronyms

See LANL Acronym Master List.

| | |
|---|---|
| AIM | Additional Implementation Measures |
| BMP | Best Management Practice |
| CAR | Corrective Action Report |
| ELG | Effluent Limitation Guideline |
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance-Compliance Programs |
| DEP | Deployed Environmental Professional |
| ID | Identification |
| IM | Issues Management |
| IMC | Issues Management Coordinator |
| IWD | Integrated Work Document |
| FOD | Facility Operations Director |
| FSR | Facility Service Request |
| LANL or Laboratory | Los Alamos National Laboratory |
| MSGP | Multi-Sector General Permit |
| N | No |
| NA | Not Applicable |
| NeT | EPA's NPDES eReporting Tool |
| NPDES | National Pollutant Discharge Elimination System |
| Ops | Operations |
| P | Procedure |
| PD | Program Description |
| PED | Portable Electronic Device |
| RFI | Routine Facility Inspection |
| QA | Quality Assurance |
| QP | Quality Procedure |
| SCM | Stormwater Control Measure |
| SD | System Description |
| SIDP | Substantially Identical Discharge Point |
| SWPPP | Stormwater Pollution Prevention Plan |
| Triad | Triad National Security, LLC |
| WMC | Waste Management Coordinator |
| 40 CFR | Title 40 of the Code of Federal Regulations |

| | |
|---|---|
| Y | Yes |

## 9.0 REFERENCES

Final National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Activities. Federal Register: June 16, 2015, Volume 80, Number 115.

*United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity*

*Los Alamos National Laboratory Storm Water BMP Manual*

PD100, *DOE/NNSA Approved Los Alamos National Laboratory 10 CFR 851 Worker Safety and Health Program Description*

SD100, *Integrated Safety Management System*

P101-18, *Procedure for Pause/Stop Work*

P1020-1, *Laboratory Records Management*

EPC-CP-QP-2108, *MSGP Routine Facility Inspections*

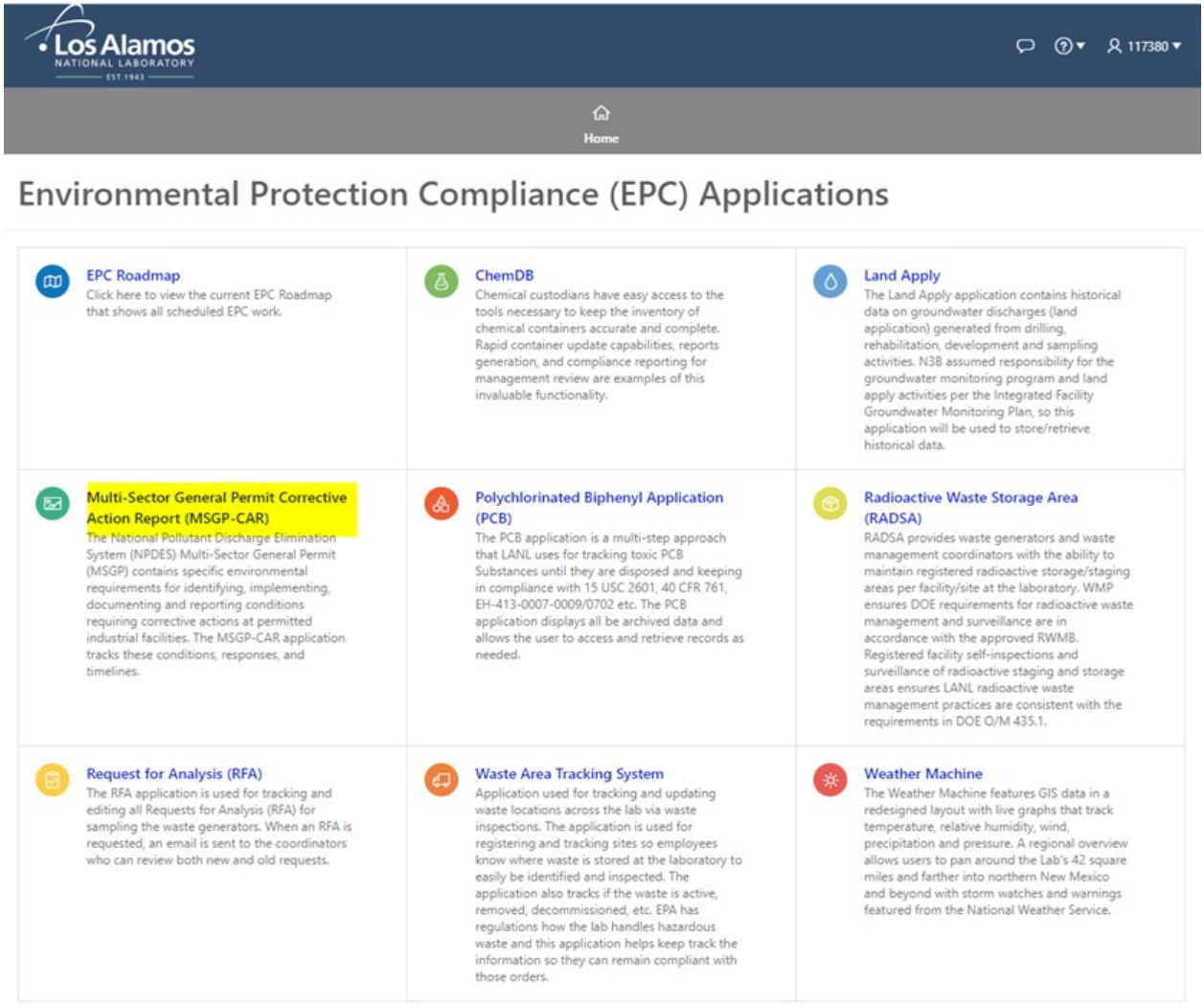
## 10.0 ATTACHMENTS

**Attachment 1:** Screenshot Examples of CAR Database
**Attachment 2:** List of Limited Values in the CAR Database
**Attachment 3:** Example New Corrective Action Finding Notification
**Attachment 4:** Example Weekly Notification of Outstanding Corrective Action Findings
**Attachment 5:** Example Outstanding Corrective Action Report

## Attachment 1: Screenshot Example of CAR Database

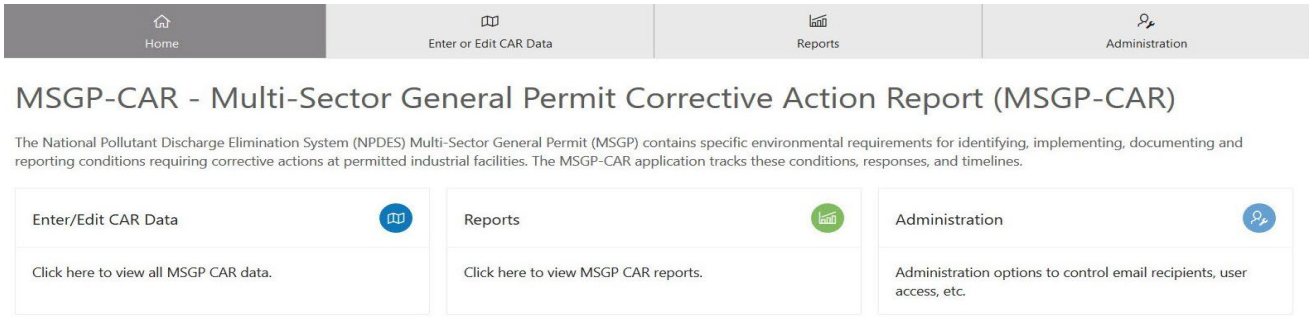


MSGP-CAR is accessed from the EPC Application page at epc.lanl.gov. To get started, click on "Multi-Sector General Permit Corrective Action Report (MSGP-CAR)" (see yellow highlight below).

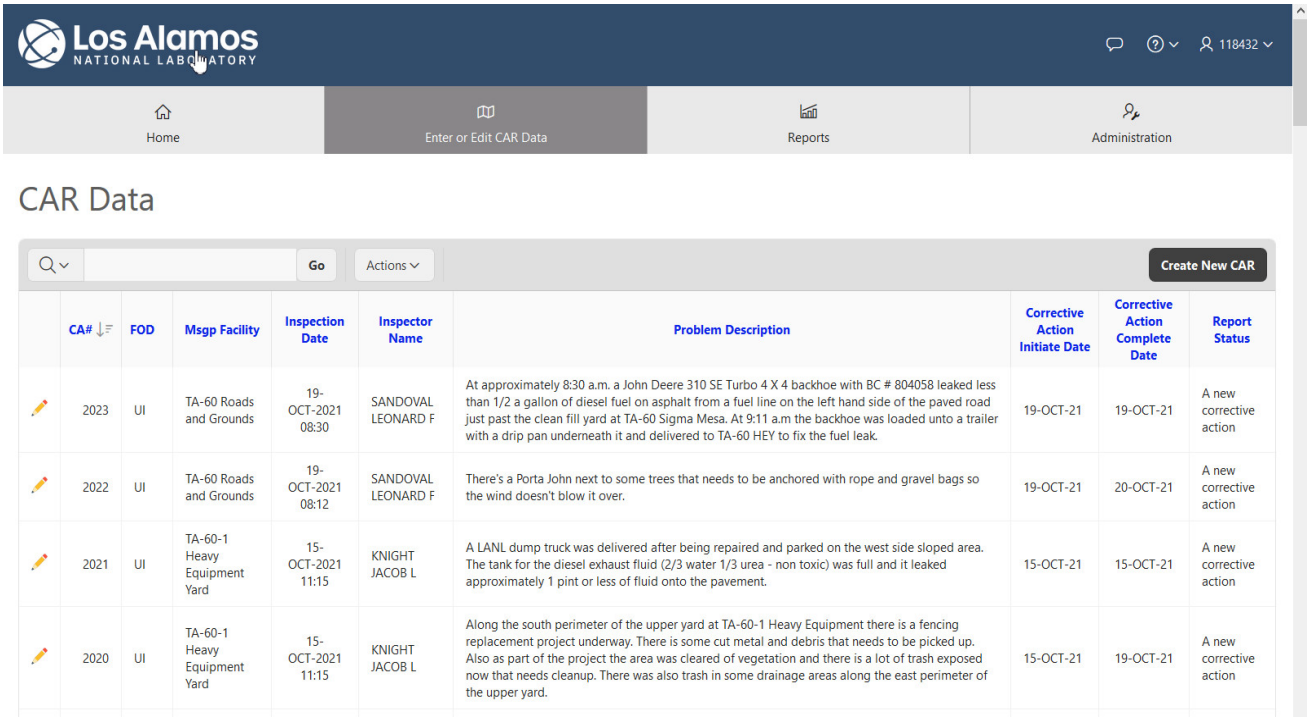


## Attachment 1: Screenshot Example of CAR Database (cont.)

Page 2 of 7




There are two basic functional areas in the system for most users: **Enter/Edit CAR Data** and **Reports.**

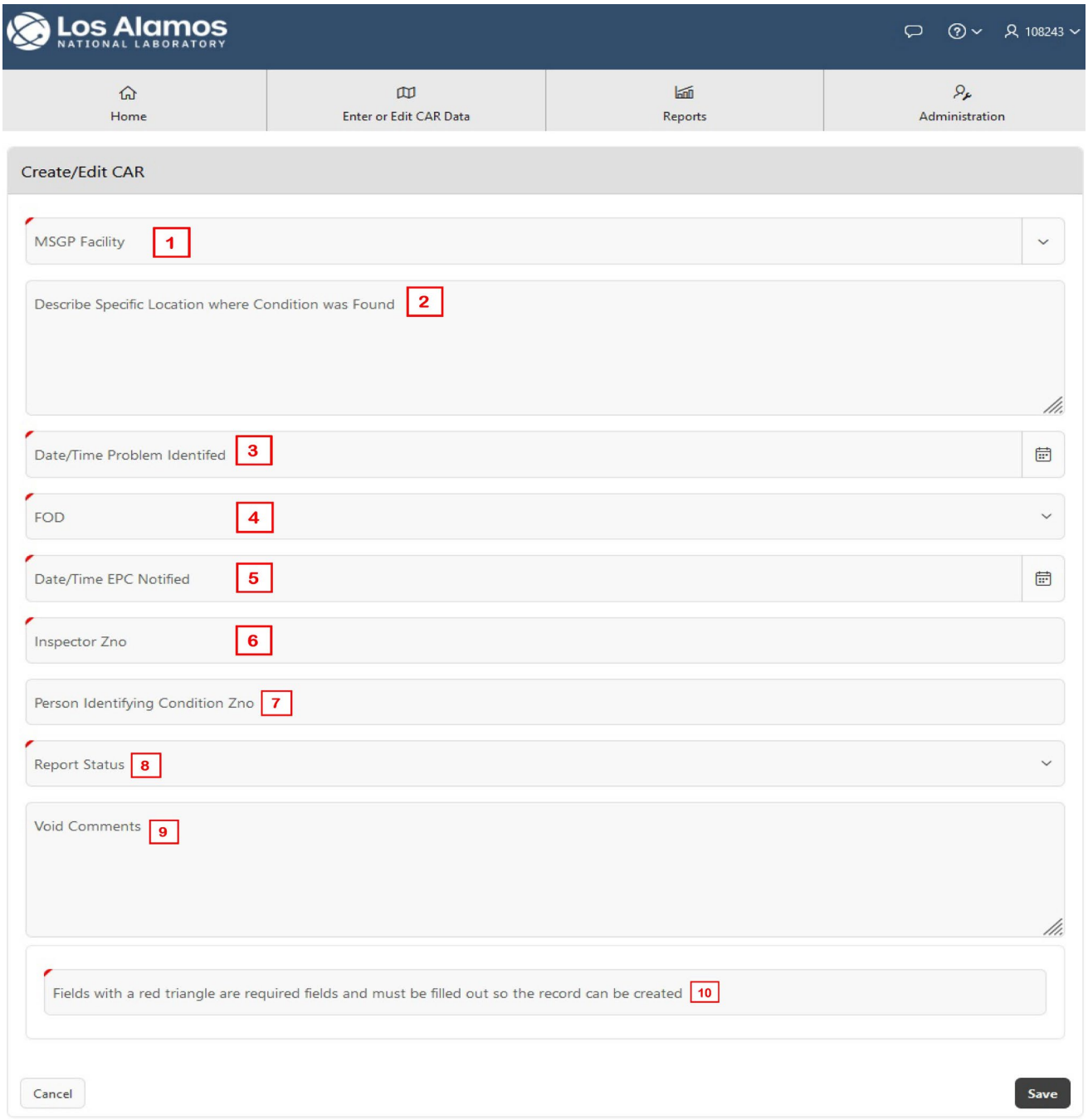



Click Create New CAR (see black button at the right of the screen shot in the example above).

## Attachment 1: Screenshot Example of CAR Database (cont.)

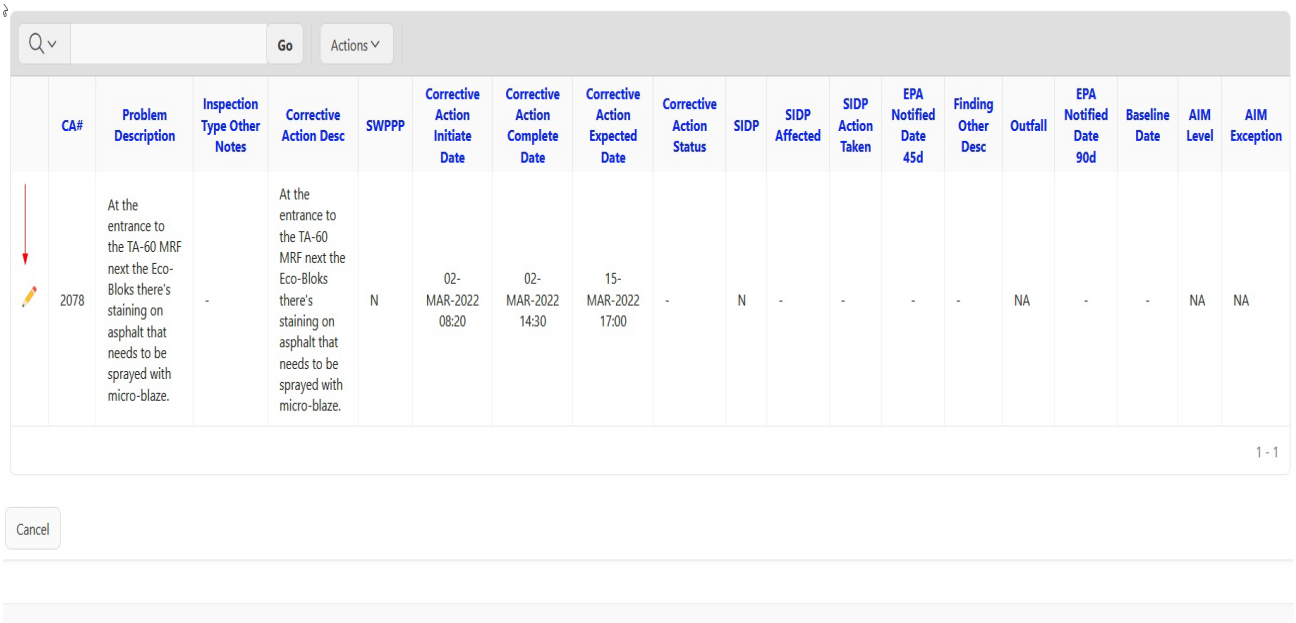


### Corrective Action Details tab



## Attachment 1: Screenshot Example of CAR Database (cont.)

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Go | Actions

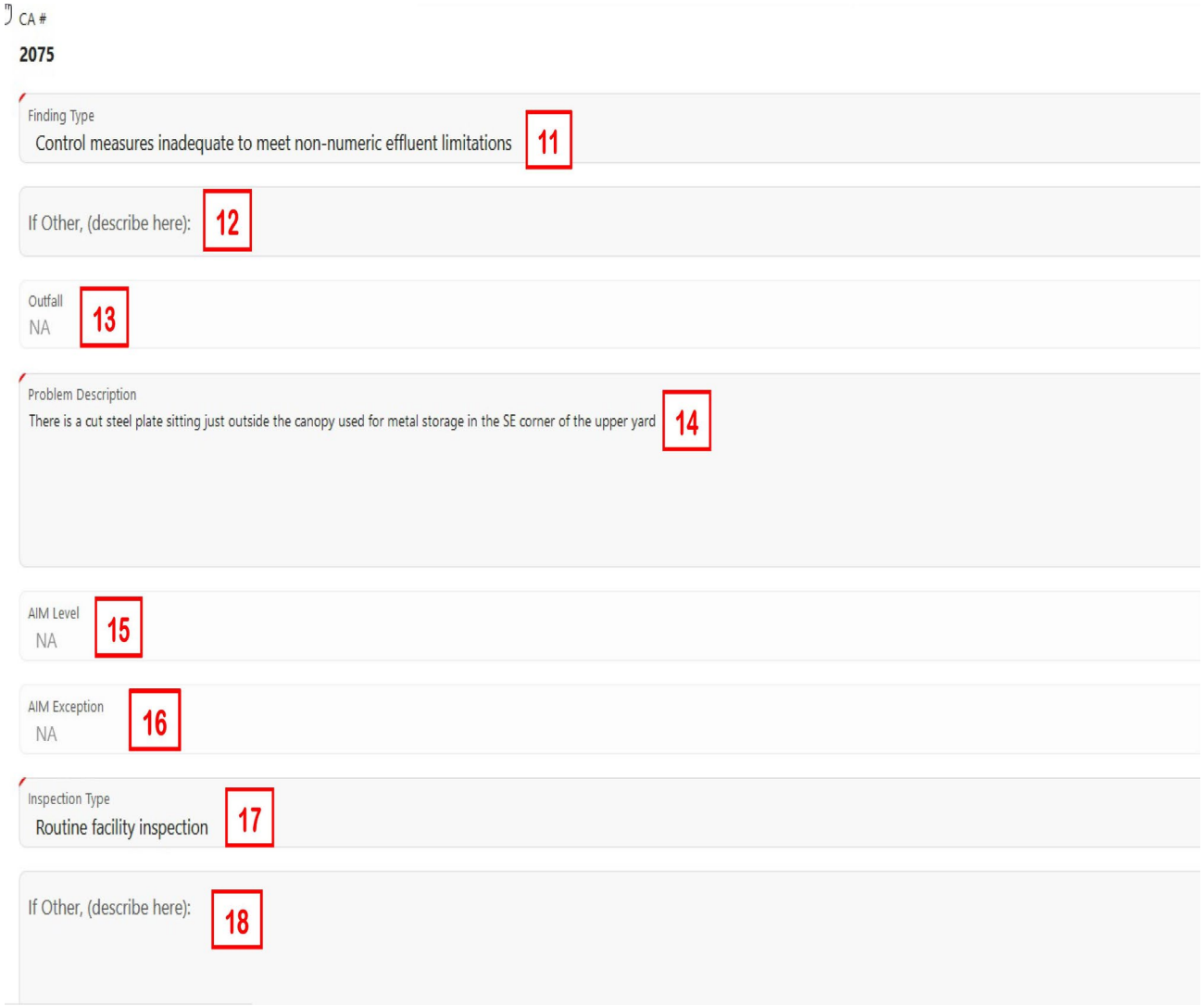
| | CA# | Problem Description | Inspection Type Other Notes | Corrective Action Desc | SWPPP | Corrective Action Initiate Date | Corrective Action Complete Date | Corrective Action Expected Date | Corrective Action Status | SIDP | SIDP Affected | SIDP Action Taken | EPA Notified Date 45d | Finding Other Desc | Outfall | EPA Notified Date 90d | Baseline Date | AIM Level | AIM Exception |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2078 | At the entrance to the TA-60 MRF next the Eco-Bloks there's staining on asphalt that needs to be sprayed with micro-blaze. | - | At the entrance to the TA-60 MRF next the Eco-Bloks there's staining on asphalt that needs to be sprayed with micro-blaze. | N | 02-MAR-2022 08:20 | 02-MAR-2022 14:30 | 15-MAR-2022 17:00 | - | N | - | - | - | - | NA | - | - | NA | NA |

1 - 1

Cancel

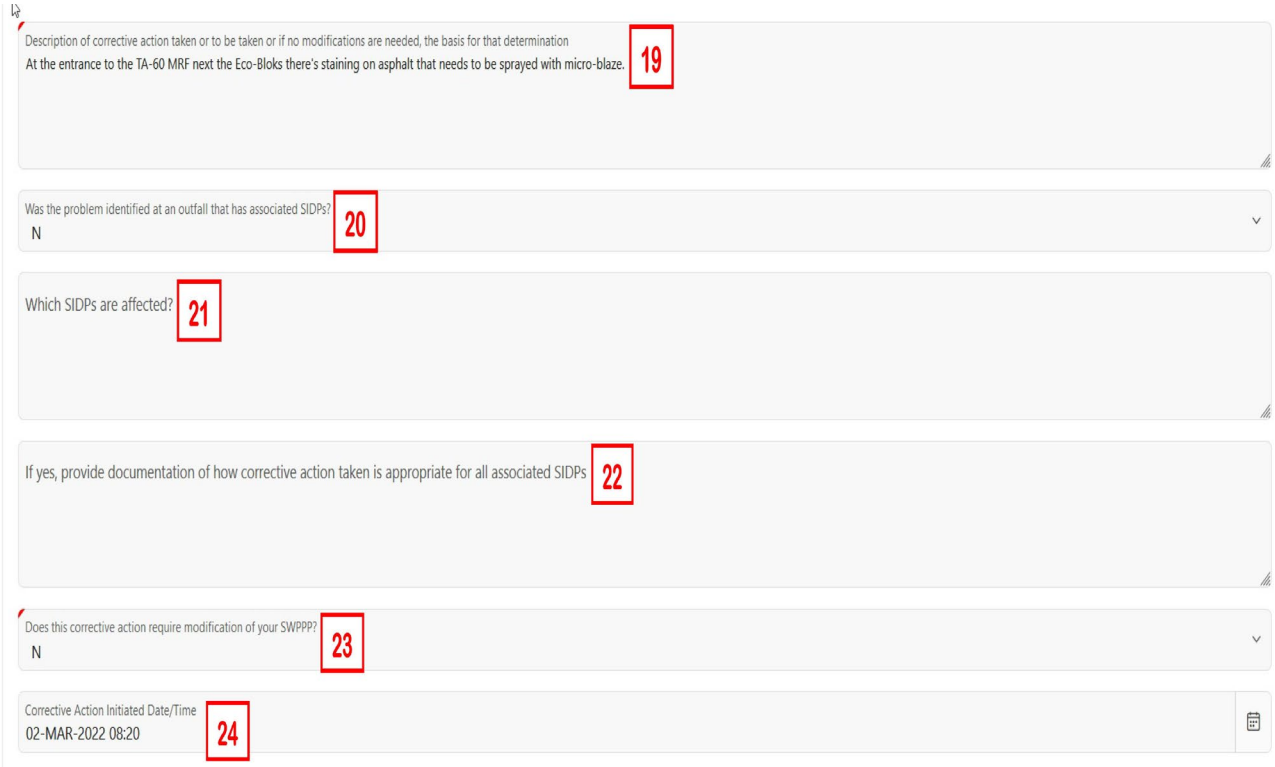
## Attachment 1: Screenshot Example of CAR Database (cont.)

Page 5 of 7



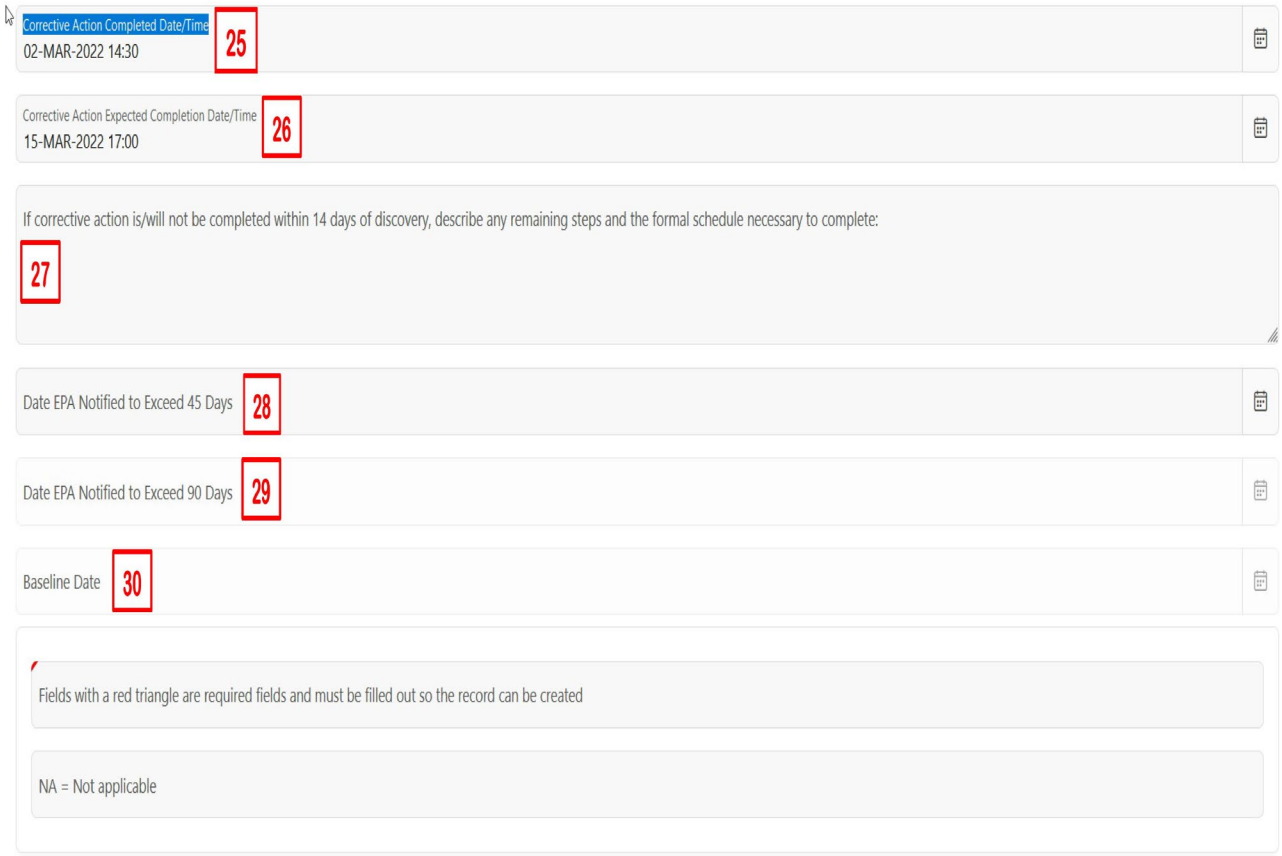
## Attachment 1: Screenshot Example of CAR Database (cont.)

Page 6 of 7



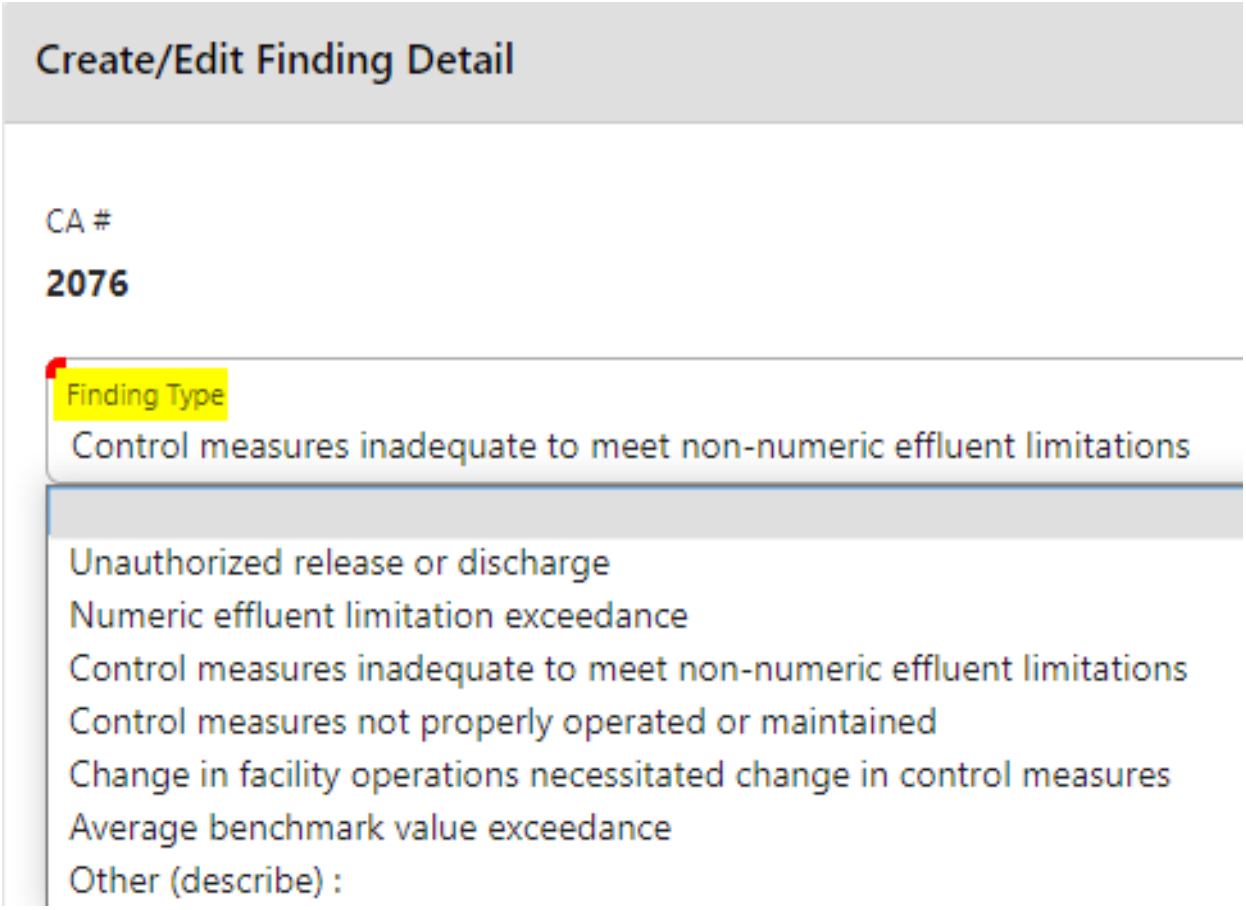
## Attachment 1: Screenshot Example of CAR Database (cont.)

Page 7 of 7



**Attachment 2: List of Limited Values in the CAR Database**

**Finding Type *(Item 11 on Page 5 of Attachment 1 Screenshot)***



## Attachment 3: Example New Corrective Action Finding Notification



**From:** owner-msgpcar_admin@maillist.lanl.gov on behalf of msgpcar_admin@lanl.gov
**To:** Vandenbusch, Steve; Martinez, Harold L; Powell, Mark E; Gorman, Bill; Wilburn, Dianne Williams; Caldwell, Jack Andrew; Archuleta, Bernardo; Vargas, Andrew J; Baldonado, Richard; Herrera, Gabriel Clarence; Parrett, Dana; Ulibarri, Phillip Edward; Knight, Jacob Lamar; Diaz, Vanessa Blanca; Bruaw, Lacey Jo; McMillan, Gary Edward
**Cc:** msgpcar_admin@lanl.gov
**Subject:** New Corrective Action finding relative to the NPDES MSGP Program
**Date:** Friday, February 25, 2022 1:00:01 AM

---

This email is generated automatically by the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Corrective Action Report (CAR) database to provide notification of discovery of a new condition requiring corrective action. As the recipient of this notification, you are responsible for immediately taking all reasonable steps necessary to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational.

"Immediately" requires initial action on the same day a condition is found. However, if a problem is identified at a time in the work day when it is too late to initiate corrective action (after 3 P.M.), the initiation must begin no later than the following work day morning.

**At TA-60-2 Warehouse on 24-FEB-22**, a condition requiring a corrective action was observed and a corrective action report was generated per the 2021 Multi-Sector General Permit requirements for stormwater controls at industrial sites. The condition(s) requiring a corrective action(s) is/are listed below.

**CA #:** 2076 located at TA-60-2 Warehouse

**Person Identifying Condition:** KNIGHT JACOB L

**Description of finding:** Control measures inadequate to meet non-numeric effluent limitations

**Condition requiring corrective action:** Metal recycle bins were uncovered. Recent wind damaged the bin cov ers beyond repair. New ones have been shipped to the facility for delivery soon. Bins will be hauled off for recycle.

**Description of the corrective action taken or to be taken to eliminate the condition or further investigation:** Replace bin covers as soon as practicable. Bins are scheduled to be hauled off to recycle in the next day or two.

**Status:** The Corrective Action was initiated on 24-FEB-22 and is expected to be completed by 10-MAR-22

Click Here to access the list of MSGP corrective action(s) not yet completed for IF
Click Here to access the list of MSGP corrective action(s) not yet completed.

The Deployed Environmental Professional (DEP) assigned to your organization/area is KNIGHT JACOB L

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2021 MSGP:

## Attachment 3: Example New Corrective Action Finding Notification



You must complete the corrective action within 14 calendar days of discovery.

If completion of final corrective action within 14 days is not feasible, the reason(s) must be documented and a description of steps required, along with a formal schedule for completion (as soon as practicable). This documentation must be entered into the CAR database.

If the completion of corrective action will exceed the 45-day timeframe, you make take the minimum additional time necessary, provided that you notify Region 6 of the Environmental Protection Agency (EPA):

- of your intent to exceed 45 days
- your rationale for an extension
- and a completion date.

To assist the preparation of this notification, as a responsible individual, you must contact the EPC-CP Project Lead at 667-1312 for any corrective action that remains open 35 days or more, and provide a formal status of the progress for each corrective action. By day 40, the DEP must provide the EPC-CP Project Lead the rationale for potentially exceeding the required 45-day timeframe and a proposed completion date for each associated corrective action. The DEP must also amend the rationale and completion date in the CAR database.

An extension request must be submitted to Region 6 of the EPA by EPC-CP personnel prior to day 45 for final corrective actions not completed or estimated to be completed within 45 days of discovery.

**The responsible individual must ensure compliance with the proposed completion schedule.**

**These intervals are not considered grace periods, but are defined schedules to ensure the conditions requiring corrective action do not persist indefinitely.**

Where corrective actions result in changes to controls or any procedures documented in the facility's Storm Water Pollution Prevention Plan (SWPPP), the DEP must modify the SWPPP accordingly within 14 calendar days of completing corrective action work.

## Attachment 4: Example Weekly Notification of Outstanding Corrective Action Findings



**From:** owner-msgpcar_admin@maillist.lanl.gov on behalf of msgpcar_admin@lanl.gov
**To:** Sandoval, Leonard Frank; Wilburn, Dianne Williams; Ulibarri, Phillip Edward; Chavez, Lawrence Valenzuela; McMillan, Gary Edward
**Cc:** msgpcar_admin@lanl.gov
**Subject:** Weekly Notification of Outstanding NPDES MSGP Corrective Action finding(s)
**Date:** Sunday, March 6, 2022 5:00:01 PM

---

This email is generated automatically by the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Corrective Action Report (CAR) database to provide notification of outstanding corrective action finding(s).

**At TA-60 Asphalt Batch Plant , 1** total MSGP stormwater corrective action(s) has (have) not been completed

Click Here to access the list of MSGP corrective action(s) not yet completed for UI
Click Here to access the list of MSGP corrective action(s) not yet completed.

The Deployed Environmental Professional (DEP) assigned to your organization/area is SANDOVAL LEONARD F

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2021 MSGP:

| Finding Type | AIM Level | Days to Complete upon Discovery | Document Steps and Formal Schedule not to Exceed Max Days | Extension Beyond Max Days |
|---|---|---|---|---|
| Unauthorized release or discharge | NA | 14 | 45 | Notify EPA |
| Control measures inadequate to meet applicable water quality standards | NA | 14 | 45 | Notify EPA |
| Control measures inadequate to meet non-numeric effluent limitations | NA | 14 | 45 | Notify EPA |
| Control measures not properly operated or maintained | NA | 14 | 45 | Notify EPA |
| Change in facility operations necessitated change in control measures | NA | 14 | 45 | Notify EPA |
| Other (describe) : | NA | 14 | 45 | Notify EPA |
| Numeric effluent limitation exceedance | NA | 14 | 45 | Notify EPA |
| Average benchmark value exceedance | 1 | 14 | 45 | Not permitted |
| Average benchmark value exceedance | 2 | 14 | 45 | EPA Approval Required |
| Average benchmark value exceedance | 3 | 14 | 45 | EPA Approval Required |

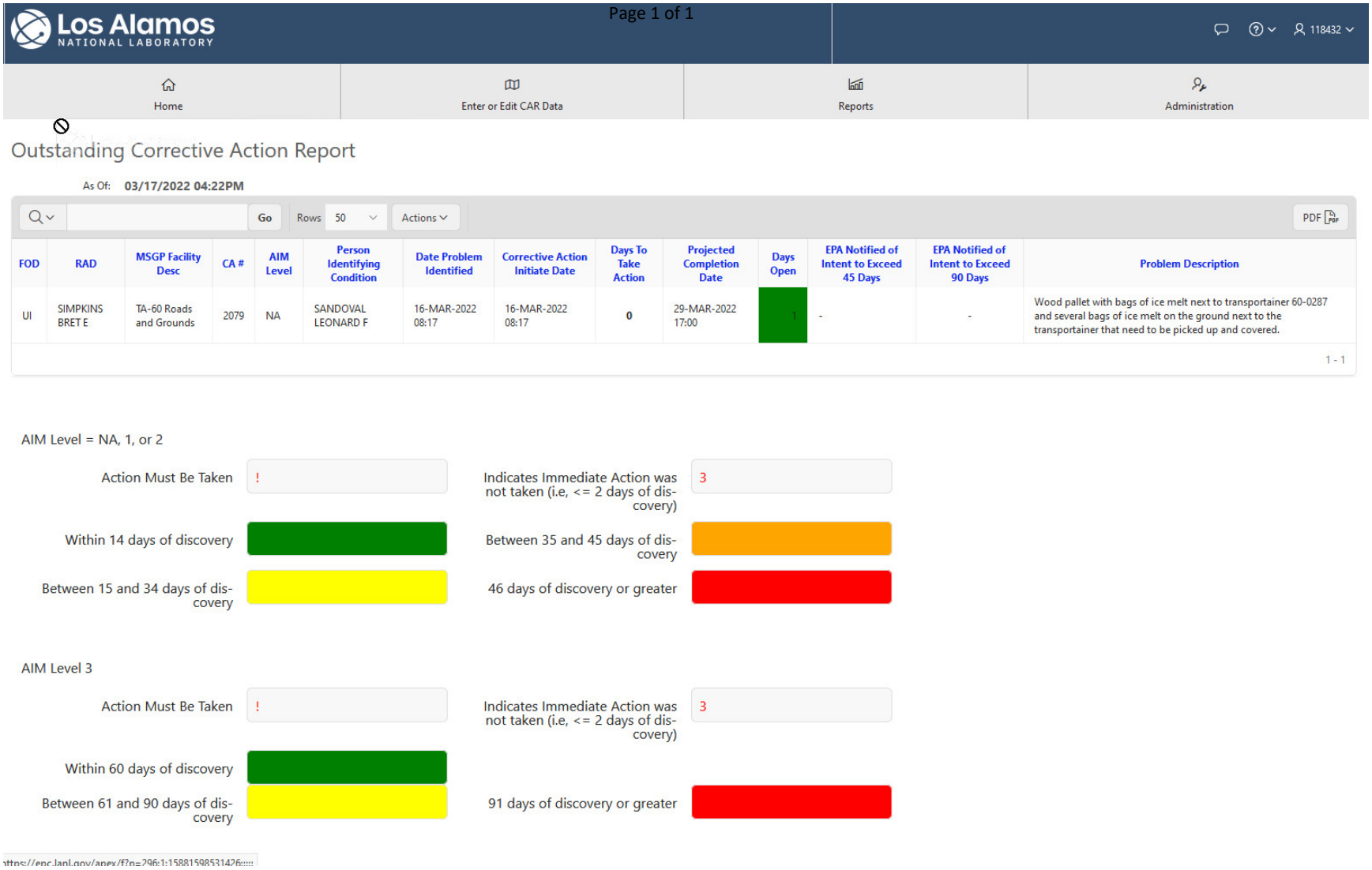
**The responsible individual must ensure compliance with the proposed completion schedule.**

**These intervals are not considered grace periods, but are defined schedules to ensure the conditions requiring corrective action do not persist indefinitely.**

Where corrective actions result in changes to controls or any procedures documented in the facility's Storm Water Pollution Prevention Plan (SWPPP), the DEP must modify the SWPPP accordingly within 14 calendar days of completing corrective action work.

## Attachment 5: Example Outstanding Corrective Action Report





Los Alamos NATIONAL LABORATORY

118432

Home | Enter or Edit CAR Data | Reports | Administration

Outstanding Corrective Action Report

As Of: 03/17/2022 04:22PM

Go | Rows 50 | Actions | PDF

| FOD | RAD | MSGP Facility Desc | CA # | AIM Level | Person Identifying Condition | Date Problem Identified | Corrective Action Initiate Date | Days To Take Action | Projected Completion Date | Days Open | EPA Notified of Intent to Exceed 45 Days | EPA Notified of Intent to Exceed 90 Days | Problem Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UI | SIMPKINS BRET E | TA-60 Roads and Grounds | 2079 | NA | SANDOVAL LEONARD F | 16-MAR-2022 08:17 | 16-MAR-2022 08:17 | 0 | 29-MAR-2022 17:00 | 1 | - | - | Wood pallet with bags of ice melt next to transportainer 60-0287 and several bags of ice melt on the ground next to the transportainer that need to be picked up and covered. |

1 - 1

AIM Level = NA, 1, or 2

| | | | |
|---|---|---|---|
| Action Must Be Taken | ! | Indicates Immediate Action was not taken (i.e, <= 2 days of discovery) | 3 |
| Within 14 days of discovery | | Between 35 and 45 days of discovery | |
| Between 15 and 34 days of discovery | | 46 days of discovery or greater | |

AIM Level 3

| | | | |
|---|---|---|---|
| Action Must Be Taken | ! | Indicates Immediate Action was not taken (i.e, <= 2 days of discovery) | 3 |
| Within 60 days of discovery | | | |
| Between 61 and 90 days of discovery | | 91 days of discovery or greater | |

https://epc.lanl.gov/apex/f?p=296:1:15881598531426::::

## ATTACHMENT 18: EPC-CP-QP-2105, MSGP STORMWATER VISUAL ASSESSMENTS

| EPC-CP-QP-2105 | Revision: **2** |
|---|---|
| Effective Date: 05/07/2024 | Next Review Date: 05/07/2027 |

Los Alamos NATIONAL LABORATORY

## Environment, Safety, Health, and Quality Directorate

## Environmental Protection and Compliance – Compliance Programs Group

## Quality Procedure

# MSGP Stormwater Visual Assessments

**Hazard Grading:** ☒ Low ☐ Moderate ☐ High/Complex

**Usage Level:** ☒ Reference ☐ UET ☐ Mixed: UET Sections: _____

**Status:** ☐ New ☒ Major Revision ☐ Minor Revision

☐ Review w/No Changes ☐ Other: _____

**Safety Basis:** ☒ N/A ☐ USQ ☐ USI Number: _____

**Document Author/Subject Matter Expert:**

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Alethea Banar | EPC-CP | Signature on File | 04-24-2024 |

**Derivative Classifier:** ☒ **Unclassified or** ☐ _____

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Steven E. Wolfel | EPC-CP | Signature on File | 04-24-2024 |

**Approval Signatures:**

| EPC-CP Reviewer: | Organization: | Signature: | Date: |
|---|---|---|---|
| Jacob Knight, MSGP Program Lead | EPC-CP | Signature on File | 04-24-2024 |
| Responsible Line Manager: | Organization: | Signature: | Date: |
| Terrill W. Lemke, Team Leader | EPC-CP | Signature on File | 05-03-2024 |
| EPC-CP RLM: | Organization: | Signature: | Date: |
| Sarah Holcomb, Group Leader | EPC-CP | Signature on File | 05-07-2024 |

*This copy is uncontrolled.*
*Users are responsible for ensuring they work to the latest approved version.*
*To document a required read, Login to UTrain, and go to the Advanced Search.*

## REVISION HISTORY

| Document Number and Revision | Effective Date | Effective Date |
|---|---|---|
| ENV-RCRA-QP-064, R0 | 7/09 | New document *MSGP Storm Water Visual Inspection*s. |
| ENV-RCRA -QP-064, R1 | 3/10 | Clarifications and added attachments. |
| ENV-RCRA -QP-064, R2 | 2/12 | Biennial review/revision |
| EPC-CP-QP-064, R0 | 10/04/2017 | This document replaces ENV-RCRA-QP-064 R2. Converted into new format, and new organization name, clarified steps, updated attachments. |
| EPC-CP-QP-064, R1 | 10/09/2018 | Removed requirement to conduct visual assessment on filtered samples. Updated form to match text. |
| EPC-CP-QP-2105, R0 | 05/12/20 | Supersedes EPC-CP-QP-064, R1. Reformat to new EPC-CP template. Re-number procedure and forms to new EPC-CP procedure numbering system. |
| EPC-CP-QP-2105, R1 | 09/08/2021 | This document supersedes EPC-CP-QP-2105, R0. Updated LANL logo, changed “memorandum” to “cover sheet,” changed "modified sampling quarters" to "MSGP monitoring quarters," “best management practice” to “stormwater control measure,” and updated facility types and permit section reference to match new permit. |
| EPC-CP-QP-2105, R2 | 05/07/2024 | This document supersedes EPC-CP-QP-2105 R1. Reviewed and revised this procedure to the 2021 MSGP language and requirements throughout procedure. Updated Attachment to reflect form from new database. Revised all Sections to match new inspection form, changed all references from Maintenance Connection to ECMS, and removed Section 2.2 Limitations. |

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## 1.0 INTRODUCTION

Los Alamos National Laboratory (LANL) through Environmental Protection and Compliance – Compliance Programs (EPC-CP) conducts stormwater monitoring activities required pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP). The MSGP requires LANL to monitor stormwater runoff from industrial sites relative to potential pollutants.

### 1.1 Purpose

This procedure describes the process for conducting visual assessments of stormwater from permitted outfall locations where LANL conducts stormwater monitoring activities for compliance under the MSGP.

### 1.2 Scope

Requirements set forth in this document apply to active LANL industrial facilities covered by the MSGP. These facilities include, a warehouse, several metal fabrication areas/shops, a heavy equipment yard, an asphalt batch plant, roads and grounds, and a material recycling facility. Inspection waivers may be granted by EPC-CP for adverse weather conditions and unstaffed or inactive sites.

At least once each MSGP monitoring quarter, an unfiltered stormwater sample (e.g., rain or snowmelt) is collected from each discharge point covered by the MSGP and identified in the site-specific Stormwater Pollution Prevention Plan (SWPPP). The sample must be visually inspected for water quality characteristics. Stormwater samples are collected with an automated sampler, single-stage sampler, or by taking a grab sample. Visual assessments are **not** performed on filtered stormwater.

### 1.3 Applicability

This procedure applies to the EPC-CP technical staff and subcontractor personnel (as applicable) who conduct stormwater visual assessments during or after measurable storm events at MSGP regulated outfalls at LANL facilities managed and operated by Triad.

A measurable storm event is identified in Part 4.1.3 of the MSGP as one that results in an actual discharge from the site that follows the preceding measurable storm event by at least 72 hours (three days) or in the case of snowmelt, at a time when a measurable discharge occurs.

## 2.0 PRECAUTIONS AND LIMITATIONS

### 2.1 Precautions

The hazard level for the activities described in this procedure is **LOW**, therefore an Integrated Work Document (IWD) Part I is not required. If required by a Facility Operations Directorate (FOD), an IWD Part II (2101 Form) will address any site-specific requirements and training for the FOD.

Personnel will wear appropriate clothing (e.g., boots, long pants, etc.,) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or open burns).

If conditions prevent fieldwork, document these conditions on the work order. Multiple attempts can be documented on the original form. If the target date cannot be met, field personnel will contact the Program Lead no less than 24 hours before the target date for guidance.

## 3.0 PREREQUISITE ACTIONS

### 3.1 Planning and Coordination

1. Schedule work to be completed by the target date appearing on the work order(s) or as requested by the MSGP Program Lead if a work order is not issued.
2. As needed, inform (e.g., by e-mail) facility contacts and/or Deployed Environmental Professional of the schedule for sampler work and locations up to a week before (preferred), but no later than the day before (for minor changes) so work may be added to the appropriate plan of the day.

   ***NOTE:*** For some FODs (e.g., Utilities and Institutional Facilities), MSGP stormwater monitoring activities are on a standing plan of the day. However, this must be requested each year.
3. Gather the required equipment (see Section 3.3) for the work to be done.
4. Using the Chrome or Firefox web browser (Chrome is preferable) on a mobile phone, tablet or notebook style computer, log into the MyECMS application (http://ecms-prod.lanl.gov/MyECMS/) **OR** the ECMS main application (http://ecms-prod.lanl.gov/ecms/) and confirm that the inspection list displayed matches your sites. If the inspection list does not match, contact EPC-CP Data Management personnel for clarification.
5. Click on an inspection to open the inspection form.
6. Click Save to save work in progress and final work. Do not click Submit in MyECMS until all entries have been checked for completeness and accuracy.
7. Always log out when you have finished work OR work is interrupted.

### 3.2 Performance Documents

Personnel performing work to this procedure will be familiar with the most current version of the following plan. Copies of the following are not required to be on the job site.

- EPC-CP MSGP Sampling and Analysis Plan (SAP) for the current monitoring year OR project specific monitoring plan

### 3.2 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available in the field vehicle:

- Safety glasses
- Nitrile gloves
- Sturdy hiking boots or steel toed shoes with soles that grip
- Other facility specific personal protective equipment as required by the FOD
- Cell phone (Cell phones are not allowed in Limited Areas or higher. See https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property.)
- Current copy of this procedure
- Current copy of the IWD(s) Part II (as needed)
- Site map(s) (as needed)
- Current inspection or other form(s)
- LANL issued tablet, notebook or desktop computer with Chrome web browser and Blackberry work applications (see https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property)
- Necessary access and station keys
- Access to accurate time measurement
- Clean replacement sample bottles (clear glass or clear poly)
- Paper towels

## 4.0 VISUALLY ASSESSING STORMWATER

Stormwater visual assessments are determined at a sampling station based on the current year SAP. See Attachment 1 for screen shot examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* in ECMS. The form can be filled out in the ECMS main application (http://ecms-prod.lanl.gov/ecms/) or the ECMS mobile application (http://ecms-prod.lanl.gov/MyECMS/). Work can be saved at any time by clicking the “Save” button at the top of the inspection form.

***NOTE:*** Each item number listed in red below corresponds to a red numbered box on the screenshot examples.

### 4.1 Documenting Sample Information

[1] Take the sample bottle with water out of the automated sampler or single stage jar off the ground or fill a clear sample bottle with a grab sample and wipe off exterior.

[a] Grab samples are collected during daylight hours in a wide-mouth clear glass or plastic container within 30 minutes of discharge from a storm event.

[2] **ITEM 1**: In the inspection form header, click the calendar icon  next to Date of Response. Select the date the **inspection was conducted** and ***not* the date the form was filled out.**

[3] Click the "Save" button at the top of the page to open the inspection form.

[4] **ITEM 2**: Document the monitoring period by entering Jan-Mar, Apr-Jun, Jul-Sep, or Oct-Dec.

[a] IF the stormwater discharge collected is from a rain event from the previous monitoring period and the visual assessment is made in the following monitoring period,

THEN document monitoring period on the inspection to correspond to the period in which the rain event took place.

[5] **ITEM 3**: Check the date and time stormwater discharge began and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.

[a] IF the discharge is snowmelt,

THEN enter N/A.

[b] IF the discharge date/time is not available (e.g., precipitation report) when the visual is performed in the field,

THEN leave this Task Line incomplete and complete when the information is available.

[6] **ITEM 4**: Check the date and time the sample was collected and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.

[a] IF the discharge is snowmelt,

THEN enter N/A.

[b] IF the collection date/time is not available (e.g., precipitation report) when the visual is performed in the field,

THEN leave this Task Line incomplete and complete when the information is available.

[7] **ITEM 5**: Check the date and time stormwater was visually assessed and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.

[8] **ITEM 6**: Describe the nature of the discharge (e.g., rain, snowmelt, hail) and the TOTAL amount of precipitation in inches from the event.

[a] IF the discharge is snowmelt,

THEN DO NOT record total amount of precipitation.

[b] IF the total amount of precipitation is not available (e.g., precipitation report) when the visual is performed in the field,

THEN leave this Task Line incomplete and complete when the information is available.

[9] **ITEM 7**: Check that the sample was collected in the first 30 minutes of discharge and document.

[a] IF it is not possible to collect the sample within the first 30 minutes of discharge,

THEN the sample must be collected as soon as practicable after the first 30 minutes.

[b] The field inspector will document the reason a sample could not be collected within the first 30 minutes (e.g., lightning hazard, flooding).

### 4.2 Assessing Parameters

While conducting the visual assessment, personnel will attempt to relate any evidence of stormwater pollution that is observed in the sample to a pollutant source on the site. A cleanup of the site can be conducted if the pollutant source is known and well defined. Refer to EPC-CP-QP-2109, *MSGP Corrective Actions,* for specific steps to document, track, and report conditions of potential stormwater pollution.

[1] **ITEM 8**: Observe the color of the discharge in the sample container. Document by describing the color.

[2] **ITEM 9**: Observe any odors detected from the sample. Document by describing the odor (e.g., musty, sewage, sulfur, sour, solvents, petroleum/gas).

[3] **ITEM 10**: Observe the clarity of the discharge. Document by describing the clarity (e.g., slightly cloudy, cloudy, opaque).

***NOTE 1:*** Clarity is described as the depth in which you can look into or through water. For example, an individual can see through a clear glass of clean water in daylight. Generally, the clarity of the water is a good visual indicator of the purity of water. If the water is poor in clarity there is most likely suspended solids throughout the water.

[4] **ITEM 11**: Observe any floating solids in the discharge. Document by describing the floating solids.

***NOTE 2***: Careful examination will determine whether the solids are raw materials (e.g., product used to fabricate something, or ingredients used in a formulation) or waste materials (e.g., shavings, woodchips and sawdust, trash).

[5] **ITEM 12**: Observe any settled solids in the sample. Document by describing the settled solids (e.g., sediment, vegetation, fine, course).

***NOTE 3:*** Settled solids may be an indicator of unstable ground cover combined with a high-intensity stormwater runoff event.

[6] **ITEM 13**: Observe any suspended solids in the sample. Document by describing the suspended solids (e.g., vegetation, ash, sediment, fine, course).

***NOTE 4:*** Most often suspended solids include fine sediment. This may be an indication of an unstable channel with eroding banks. Some water may appear to be colored because of relatively fine particulate material in suspension such as sediment.

[7] **ITEM 14**: Check to see whether the sample is free of foam. Gently shake the sample container. Document by describing any bubbles in or on the surface of the water and the color of the foam.

[a] IF it is determined that foam is caused by a pollutant,
THEN complete the visual assessment and contact the EPC-CP MSGP Program Lead **immediately** following completion of the visual assessment.

[b] Follow-up action is required within 24 hours (see EPC-CP-QP-2109).

[8] **ITEM 15**: Check to see whether the sample is devoid of any oil sheen. Document by describing the thickness and consistency (e.g., flecks, globs).

[a] IF an oil sheen is present,
THEN contact the EPC-CP MSGP Program Lead **immediately** following completion of the visual assessment.

[b] Document the source of the oil sheen, if existing stormwater control measures (SCMs) are effective in mitigation of potential pollutants, and if a new SCM needs to be installed.

[c] Follow-up action is required within 24 hours (see EPC-CP-QP-2109).

[9] **ITEM 16**: Check to see whether the discharge is free of any other indicators of stormwater pollution not described in any other task line above.

[a] IF there are any potential sources of pollutants observed on site,

THEN document the following and contact the EPC-CP MSGP Program Lead within 24 hours of identification:

- Potential sources,
- Indicate if there are SCMs on site,
- Evaluate whether the SCMs are working correctly or need maintenance,
- Evaluate whether implementation of additional SCMs is needed to address the observed contaminant.

[10] Contact the FOD, DEP, and EPC-CP MSGP representative to inform them of the situation.

***NOTE 5:*** Refer to EPC-CP-QP-2109, *MSGP Corrective Actions,* for specific steps to document, track, and report conditions of potential stormwater pollution.

[11] **ITEM 17**: Additional notes, observations, or site conditions not documented in a question field above can be documented in the "Additional information" field.

### 4.3 Completing the Visual Assessment Form

[1] **ITEM 18**: Click the calendar icon on the far right of the question. Select the date the **inspection was conducted** and ***not*** **the date the form was filled out**.

[a] IF work needs to be performed over multiple days,
THEN note the date and time the work began in the Additional information field (**ITEM 17**).

[2] **ITEM 19**: Document the time the inspection was conducted in the text field.

[3] **ITEM 20**: Click the magnifying glass icon on the far right of the question and select the name of the inspector conducting the inspection from the list.

[a] By signing the inspection form, field personnel certifies that the information submitted is "true, accurate, and complete."

[4] **ITEM 21**: Capture an electronic signature by drawing inside the dotted line box with a computer mouse on a desktop screen OR a finger on a tablet screen.

[5] Ensure the form has been filled out completely.

[6] After all fields have been completed, make sure you have clicked the "Save" button at the top of the page.

[a] IF the inspection is filled out in the ECMS mobile application (MyECMS),
THEN also click the Submit button at the top of the page.

### 4.4 Completing the Certification Statement

The visual assessment form(s) must be certified with a signature from a manager that meets the definition of a signatory in MSGP Permit Section B.11.A (e.g., FOD, Operations Manager, EPC-CP Group Leader, or EPC-CP Team Leader) or as identified as duly authorized signatories in the SWPPP. The manager is certifying the information submitted is "true, accurate, and complete" by signing the form(s).

The EPC-CP MSGP Program Lead or designee will send completed visual assessment form(s) to the DEPs at the end of each monitoring quarter that will contain a certification statement in a cover sheet. The duly authorized signatory may sign and date this certification statement rather than the certification line associated with each attached form. The cover sheet and associated completed form(s) must remain together.

## 5.0 TRAINING

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified in EPC-CP-PIP-2101, *NPDES Multi-Sector General Permit Program Implementation Plan*. This will include "self-study" (required reading) for this procedure. Other participating LANL groups may require training documentation pursuant to local procedures. All training will be assigned and tracked using the LANL training management system, UTrain.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel are required to complete "self-study" (required reading) of this procedure.

## 6.0 RECORDS

The completed signed MSGP Visual Assessment forms are maintained in the facility's SWPPP and managed by the facility's document management system. The MSGP team may retain a copy for reference purposes. Records must be maintained in accordance with P1020-1, *Laboratory Records Management.*

Below are records generated as a result of implementing this procedure that are identified by title and type.

| Record Title | QA Record | Non-QA Record |
|---|---|---|
| EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* | ☒ | ☐ |

## 7.0 DEFINITIONS AND ACRONYMS

### 7.1 Definitions

See LANL *Definition of Terms*.

**Adverse weather conditions** – Weather that prohibits collection of samples such as local flooding, high winds, hurricanes, tornadoes, electrical storms, etc. Could also include drought, extended frozen conditions, etc.

**Clarity** – Clearness or cleanness of appearance. This includes the visual observation of suspended sediment.

**Color** – Unpolluted water will be clear and colorless. Color must not be confused with clarity.

**Control Measure** – Refers to any stormwater control or other method (including narrative effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

**Floating solids** – Particulate material floating on the surface of the water. Examples include raw or waste materials and common trash.

**Foam** – An accumulation of fine frothy bubbles formed in or on the surface of water. A mass of bubbles of air in a matrix of liquid film.

**Measurable storm event** – Precipitation that results in an actual discharge from the site that follows the preceding measurable storm event by at least 72 hours (3 days).

**Odor** – The property or quality of waters that affects or stimulates the sense of smell. Examples of odors that may be present are burnt oil, petroleum hydrocarbon, sewage, diesel, sulfuric, or detergent odors.

**Oil sheen** – The presence of rainbow-like colors glistening on the surface of a liquid. The color of oil sheen will vary dependent on thickness and consistency.

**Settled solids** – Settled particulate material i.e., heavier than water. Examples include sand, gravel, metal turnings, and glass.

**Suspended solids** – Particulate materials that are floating between the bottom of the sample and the surface of the water.

**Unstaffed and Inactive Sites** – A facility maintaining certification within the SWPPP that it is inactive and unstaffed and visual examinations are not required.

### 7.2 Acronyms

See LANL Acronym Master List.

| | |
|---|---|
| DEP | Deployed Environmental Professional |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs |
| FOD | Facility Operations Directorate |

| | |
|---|---|
| IWD | Integrated Work Document |
| LANL or Laboratory | Los Alamos National Laboratory |
| MC | Maintenance Connection |
| MC Express | Maintenance Connection MC Express web application |
| MSGP | Multi-Sector General Permit |
| NPDES | National Pollutant Discharge Elimination System |
| SAP | Sampling and Analysis Plan |
| SCM | Stormwater Control Measure |
| SWPPP | Stormwater Pollution Prevention Plan |

## 8.0 REFERENCES

P1020-1, Laboratory Records Management

P217, Controlled Portable Electronic Devices

EPC-CP-QP-2109, MSGP Corrective Actions

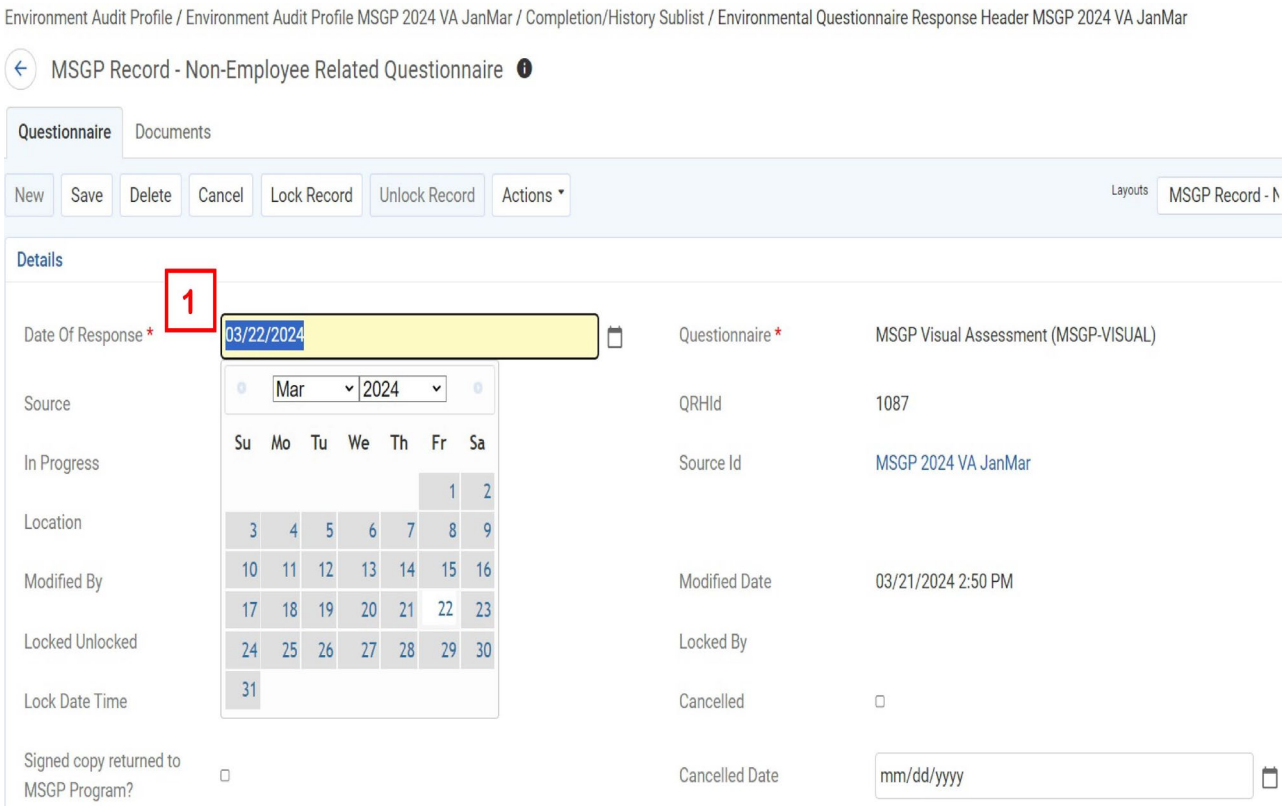
EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan

## 9.0 ATTACHMENTS

**Attachment 1:** Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment*

**Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1,**
***MSGP Visual Assessment***
(Page 1 of 6)

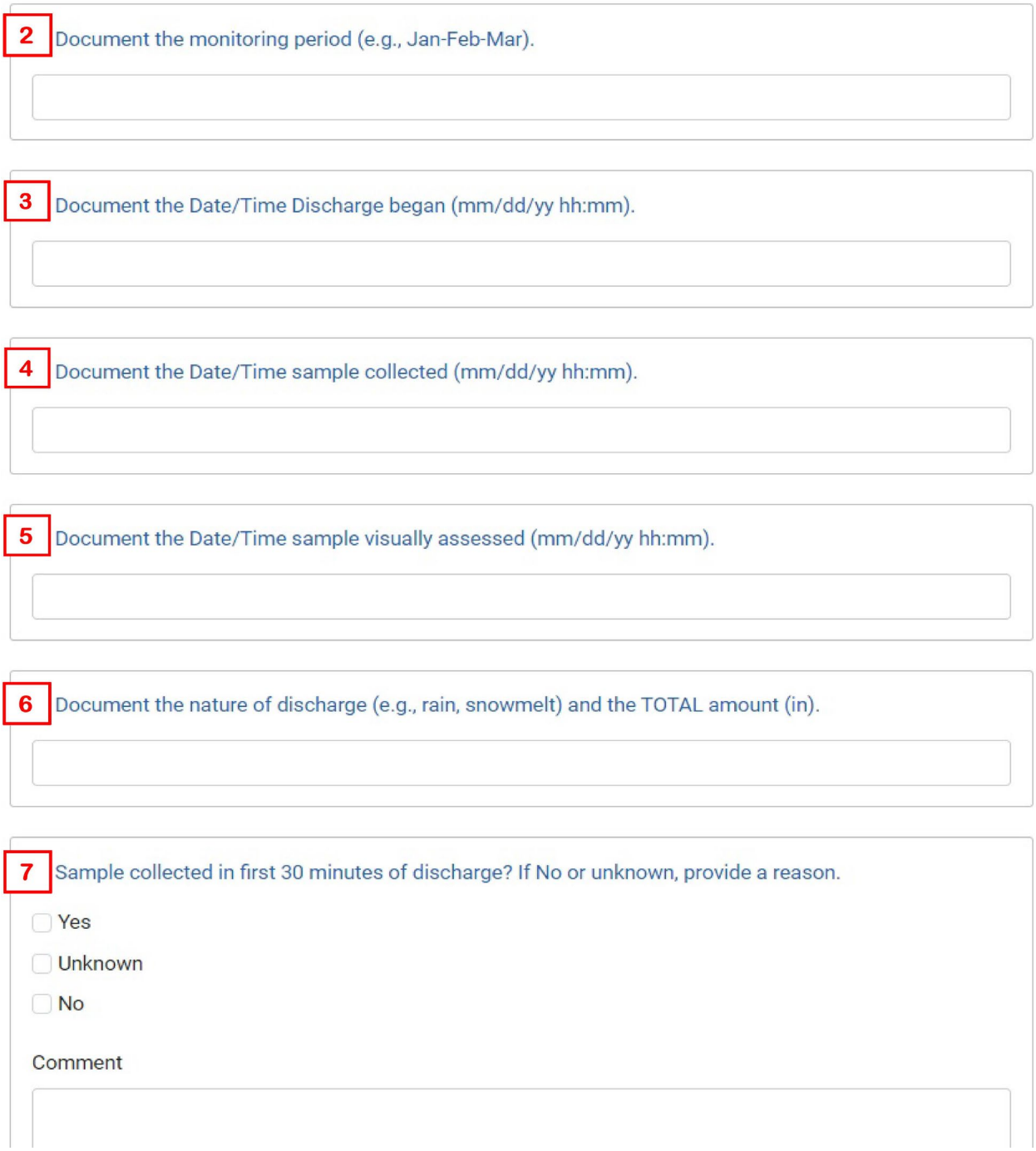
Section 4.1, Steps 2 and 3



**Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)**

(Page 2 of 6)

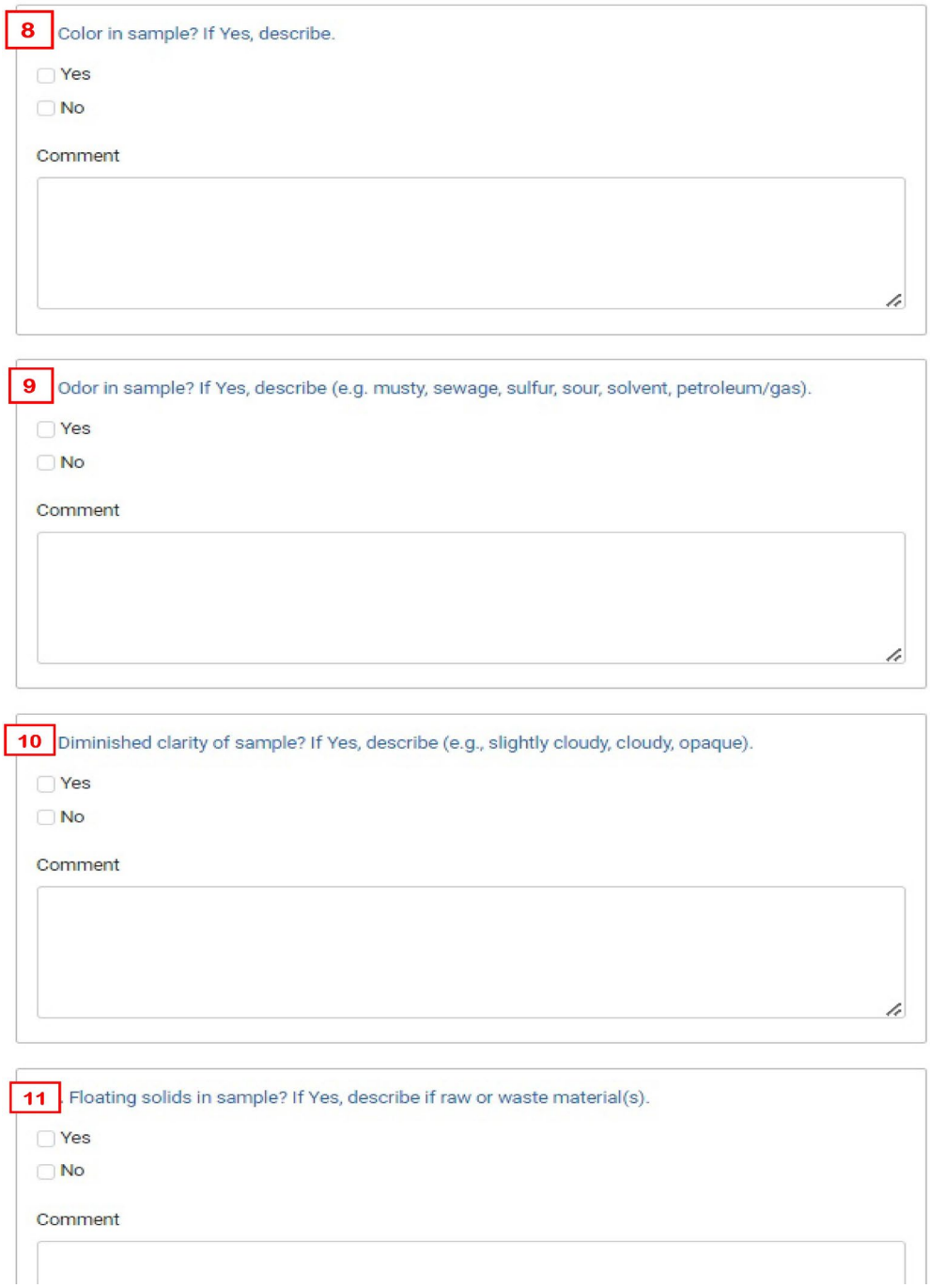
Section 4.1, Steps 4-9



**Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)**

(Page 3 of 6)

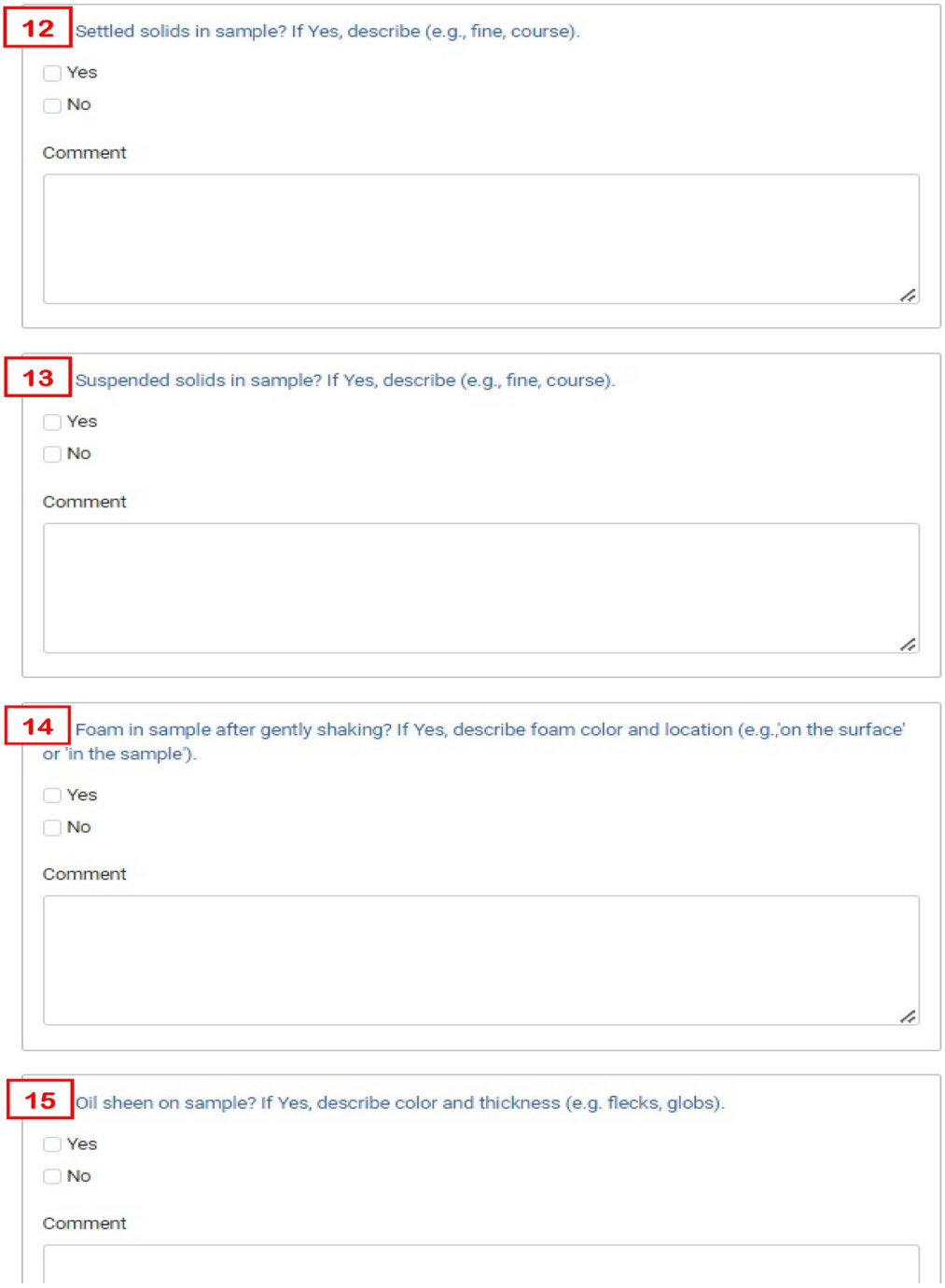
Section 4.2, Steps 1-4



**Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)**

(Page 4 of 6)

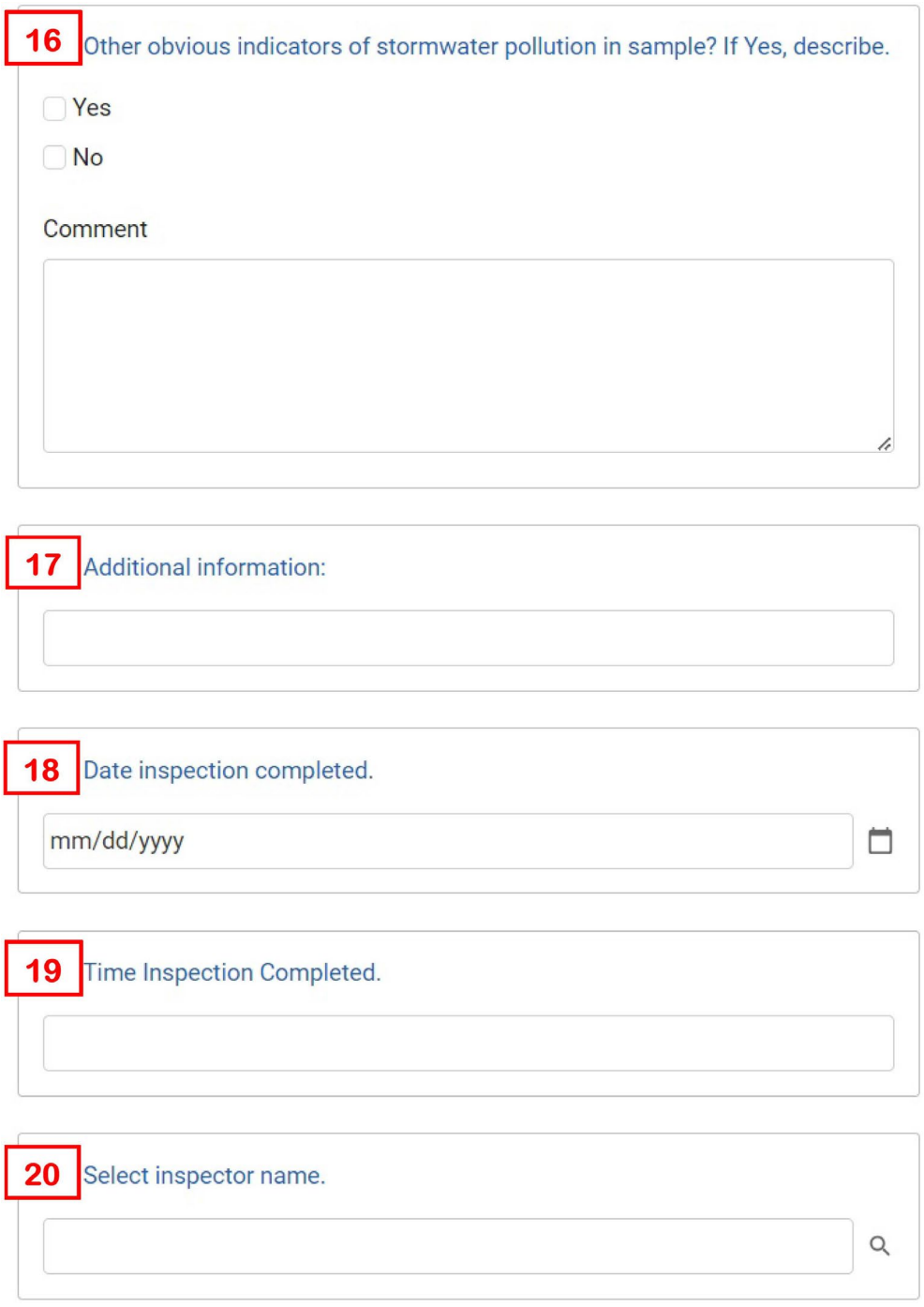
Section 4.2, Steps 4-6



**Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)**

(Page 5 of 6)

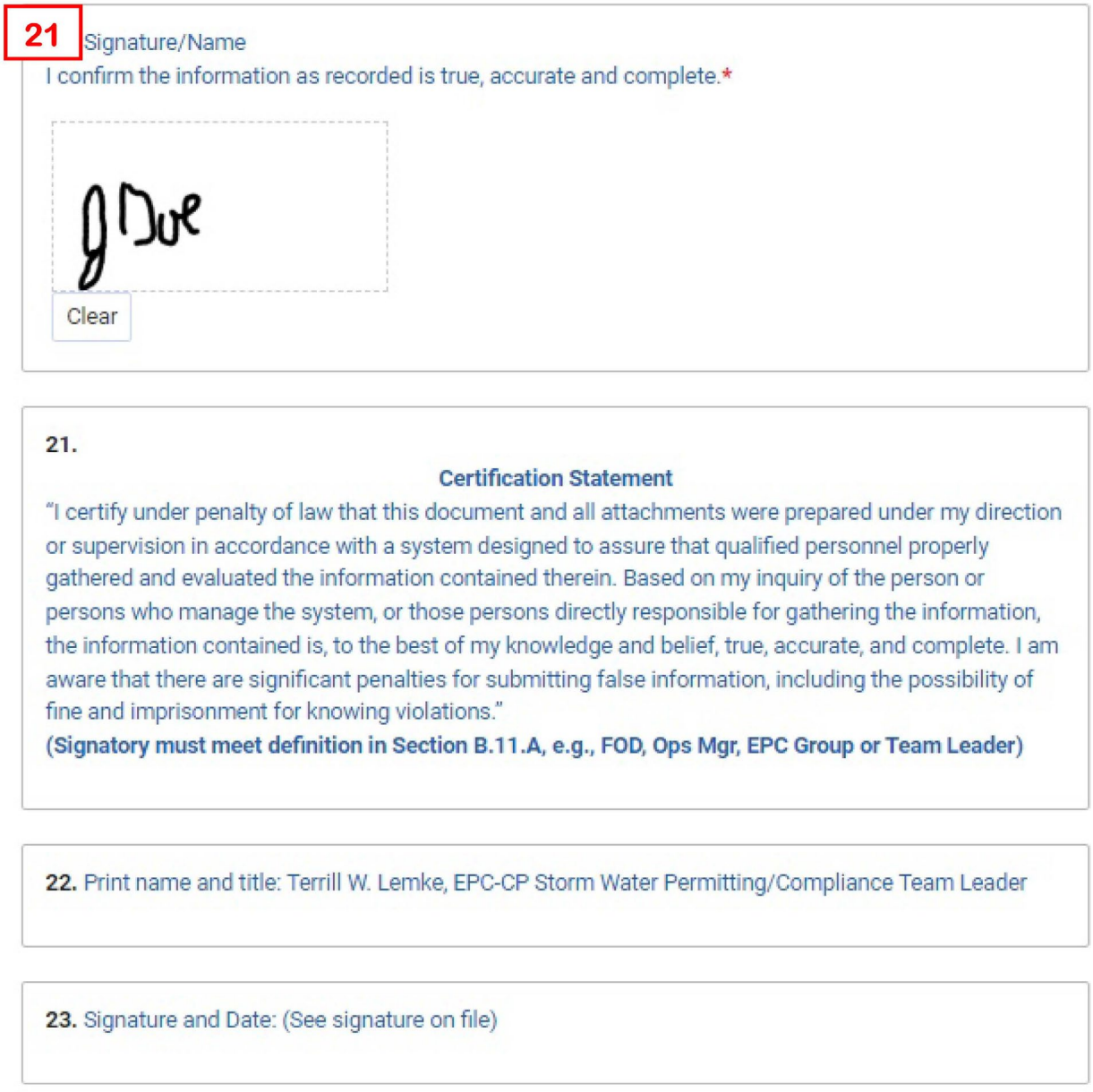
Section 4.2, Steps 9 and 11. Section 4.3, Steps 1-3



**Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)**

(Page 6 of 6)

Section 4.3, Step 4



## ATTACHMENT 19: EPC-CP-QP-2103, INSPECTING ISCO STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES

| EPC-CP-TP-2103 | Revision: 1 | Los Alamos NATIONAL LABORATORY |
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| Effective Date: 03/16/2023 | Next Review Date: 03/16/2026 | |

## Environment, Safety, Health, and Quality Directorate

## Environment Protection and Compliance – Compliance Programs Group

## Technical Procedure

# Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples

| | | | |
|---|---|---|---|
| **Hazard Grading:** | ☐ Low | ☒ Moderate | ☐ High/Complex |
| **Usage Level:** | ☒ Reference | ☐ UET | ☐ Mixed: UET Sections: _____ |
| **Status:** | ☐ New | ☒ Major Revision | ☐ Minor Revision |
| | ☐ Review w/No Changes | | ☐ Other: _____ |
| **Safety Basis:** | ☒ N/A | ☐ USQ | ☐ USI Number: _____ |

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| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Steven E. Wolfel | EPC-CP | Signature on File | 02-16-2023 |

**Approval Signatures:**

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|---|---|---|---|
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| Responsible Line Manager: | Organization: | Signature: | Date: |
| Steve Story, Group Leader | EPC-CP | Signature on File | 03-16-2023 |

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## REVISION HISTORY

| **Document Number and Revision** *[Include revision number, beginning with Revision 0]* | **Effective Date** *[Document Control Coordinator inserts effective date]* | **Description of Changes** *[List specific changes made since the previous revision]* |
|---|---|---|
| ENV-RCRA-QP-047, Rev. 0 | 03/11 | New Document. |
| ENV-RCRA-QP-047, Rev. 1 | 02/13 | Annual Review and Revision |
| EPC-CP-QP-047, Rev. 2 | 09/06/2017 | Review and revision. Updated document to new template and new group name. Clarified steps. Modified inspection form EPC-CP-Form-1010. Added crosswalk to electronic form in MC Express. |
| EPC-CP-TP-2103 R0 | 02/24/2020 | Supersedes EPC-CP-QP-047 R2. Reformat to new EPC-CP template. Re-number procedure and forms to new EPC-CP procedure numbering system. Minor edits. |
| EPC-CP-TP-2103 R1 | 03/16/2023 | This document supersedes EPC-CP-TP-2103 R0. Modified pH measurement process, revised Form 1 and instructions, and updated references. |

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## 1.0 INTRODUCTION

Los Alamos National Laboratory (LANL) through Environmental Protection and Compliance–Compliance Programs (EPC-CP) conducts stormwater monitoring activities required pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP) at LANL. The MSGP requires LANL to monitor stormwater runoff from industrial sites relative to potential pollutants.

### 1.1 Purpose

This procedure describes the process for inspecting ISCO automated samplers and retrieving stormwater runoff samples from outfall locations where LANL conducts stormwater monitoring pursuant to NPDES MSGP requirements. This procedure may also be used for other Associate Laboratory Directorate of Environment, Safety, Health, and Quality (ESHQ) stormwater monitoring activities as needed.

### 1.2 Scope

The discharge of stormwater from specified industrial sites at LANL is regulated under the NPDES MSGP. The Laboratory's MSGP requires qualitative and quantitative stormwater monitoring (e.g., sample collection) to evaluate the effectiveness of control measures. Automated ISCO samplers coupled with liquid level actuators are used at MSGP monitoring stations and in support of other stormwater monitoring programs. Refrigerated (Avalanche®) and/or non-refrigerated (Model 3700) samplers are deployed and configured with multi-battery arrays, solar panels, and surge protectors.

Field personnel are required to inspect the sampling station while retrieving water samples during MSGP stormwater monitoring periods and at other intervals determined by the program or as directed by the MSGP Program Lead.

Inspections and sample retrieval conducted under this procedure should be documented using the Maintenance Connection Express™ (MC Express) web application on a tablet or notebook style computer. (In the event of electronic hardware or web application failure, personnel may use a printed hard copy to conduct inspection and sample retrieval.)

### 1.3 Applicability

This procedure applies to the EPC-CP technical staff and subcontractor personnel (as applicable) conducting activities at automated stormwater sampling stations used for monitoring industrial stormwater discharge under the MSGP or other stormwater monitoring programs.

The MSGP Program Lead is primarily responsible for this procedure. EPC-CP personnel are appointed responsibility for a subset of sampling stations. Other stormwater monitoring programs or projects utilizing this procedure will refer to program or project specific roles and responsibilities.

## 2.0 PRECAUTIONS AND LIMITATIONS

### 2.1 Precautions

The hazard level of the activities in this procedure is **MODERATE**. Hazards in the work described in this procedure are controlled thorough a site-specific Integrated Work Document (IWD) Part I. The IWD Part II (Form 2101) addresses site specific requirements and training by the Facility Operations Division (FOD).

Personnel performing steps in this procedure that involve electrical equipment **MUST** be trained to LANL electrical safety standards as prescribed in the IWD before performing those steps.

Personnel must wear appropriate clothing (e.g., boots, long pants, etc.) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or open burns).

In the event of pest infestation (e.g., wasp or rat nests), do not attempt to remove the pest yourself. Call LANL Pest Control to coordinate the removal of the pest(s).

If conditions prevent field work, document the conditions in the Labor Report Update field on the form and notify the Program Lead or designee within 24 hours. Multiple attempts can be documented on the original form. If the target date cannot be met, the field personnel must contact the Program Lead no less than 24 hours before the target date for guidance.

### 2.2 Limitations

In MC Express, document responses to each question on a work order by clicking the expand arrow located on the right side of the task line and changing the “Complete” or “Failed” or “N/A” line to “Yes”. When using a hard copy form, mark the appropriate check box.

Throughout this process, the field personnel will document comments and notations in the “Reading” field of the associated task line. Additional comments not documented in a “Reading” field can be entered in the “Comments” field of the same task line. If field personnel need more space, additional comments can be entered in the “Labor Report Update” field (see Section 4.4) when the work order is updated to “Complete” status. When using a hard copy form, document comments on the corresponding task line. If additional space is needed, comments can be entered in the “Labor Report” section at the bottom of the form.

Some terminology varies between the MC Express software and the Maintenance Connection desktop software.

- The “Reading” field in MC Express is the same field as “Reading Final” in Maintenance Connection desktop and “Meas.” on a hard copy (printed) work order.

- The "Complete" option in MC Express is the same as a "Yes" answer; the "Failed" option in MC Express is the same as a "No" answer. Maintenance Connection desktop and hard copy (printed) work orders use "Yes" and "No" terminology.

## 3.0 PREREQUISITE ACTIONS

### 3.1 Planning and Coordination

1. Ensure that field personnel have access to accurate time measurement at the site. When at the site, the clock time on the ISCO sampler must be set to Mountain Standard Time (MST), throughout the year with no daylight-saving time adjustment.
2. Schedule work to be completed by the target date appearing on the work order(s) or as requested by the MSGP Program Lead if a form is not issued.
3. Obtain any necessary additional paperwork before conducting this work, including IWD's, and excavation permits (as necessary).
4. As specified in the IWD, inform (e.g., by e-mail) facility contacts and/or Deployed Environmental Professional of the schedule for sampler work and locations up to a week before (preferred), but no later than the day before (for minor changes) so work may be added to the appropriate plan of the day.

   ***NOTE:*** For some FODs like the Utilities and Institutional Facilities FOD, MSGP stormwater monitoring activities are on a standing plan of the day. However, this must be requested each year at the beginning of the monitoring season.
5. Gather the required equipment (see Section 3.3) for the work to be done.
6. Using the Safari or Chrome web browser on a tablet or notebook style computer, navigate to http://express.maintenanceconnection.com and select English from the available dropdown menu.
7. Log into the MC Express application (http://express.maintenanceconnection.com) and confirm that the work order list displayed matches your sites. If the work order lists do not match, contact EPC-CP Data Management personnel for clarification.
8. In MC Express, click on the appropriate work order number to open the work order. The work order will open in the display to the Work Order Summary page.
9. Click on the "Tasks" bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
10. Always log out of MC Express when you have finished work OR if work is interupted.

### 3.2 Performance Documents

Personnel performing this procedure will be familiar with the most current versions of the following plans and operation manuals if this equipment is utilized. Copies of the following are not required to be on the job site.

- EPC-CP MSGP Sampling and Analysis Plan (SAP) most recent revision for the current monitoring year OR project specific monitoring plan,
- ISCO 3700 Portable Samplers Installation and Operation Guide,
- ISCO Avalanche® Installation and Operation Guide, or
- HACH SensION™ + Portable Meter User Manual.

### 3.3 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available.

- Safety glasses,
- Sturdy hiking boots or steel toe shoes (as needed) with soles that grip and other required facility specific Personal Protective Equipment,
- Nitrile gloves,
- Leather gloves,
- Cell phone. (See https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property),

  ***NOTE:*** Mobile devices (e.g., LANL iPhones, LANL iPads, smart phones tablets, etc.,) cannot be carried into areas that are identified as LANL Secure Spaces.
- Copy of this procedure,
- Copy of the IWD,
- EPC-CP MSGP SAP most recent revision for the current monitoring year OR project specific monitoring plan,
- Site Map(s) (as needed),
- Current electronic or paper inspection form EPC-CP-TP-2103 Form 1, *MSGP ISCO Sampler Inspection and Sample Retrieval,*
- Government issued electronic tablet with Safari or Chrome web browser and Blackberry UEM™ app. (See https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property,
- Water Sample Collection and Processing Log/Field Chain of Custody (SCPL) (see EPC-CP-QP-2106),

- Access to accurate time measurement,
- Necessary access and station keys,
- Insulated hand tools,
- Charged spare battery(s),
- Battery voltage tester,
- Clean spare tubing (pump, suction, discharge types, sampler specific),
- Certified clean replacement sample bottles (glass and poly),
- Spare/replacement sampler parts (liquid level actuator, distributor arm),
- Shovel,
- Wooden stakes,
- Plastic wire "zip" ties,
- Coolers with ice or Blue Ice®,
- Paper towels,
- Marker pen (permanent, waterproof),
- Ball point pen,
- Re-sealable zipper storage bags (e.g., Ziploc®),
- Custody seals, and
- 0.45-micron filter (where applicable).

## 4.0 INSPECTING THE SAMPLER AND SAMPLE RETRIEVAL

Inspection of ISCO samplers is performed weekly during the sampling season. Samples retrieved are determined at a sampling station based on the current year SAP. See Attachment 1 for screen shot examples of EPC-CP-TP-2103 R1 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express. See Attachment 2 for an example of the form in hard copy format.

***NOTE:*** Each ITEM number listed in red font below corresponds to a red numbered box on both screenshots (Attachment 1) and hard copy format (Attachment 2).

### 4.1 Inspecting the Sampler

#### *4.1.1 On Arrival*

[1] Remove the top cover from the sampler.

[2] **ITEM 1**: Check and document the sampler is ON and its condition upon arrival. Explain any non-functional status.

[a] IF a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, THEN answer this task line question "N/A."

[b] Subsequent questions regarding the inactive sampler may be left unanswered in this section.

[3] **ITEM 2**: Check and document the ISCO programming displays the following.

[a] ISCO 3700 sampler display should indicate "Sampler Inhibited"

[b] Avalanche sampler display should indicate "Program Disabled"

[c] Document messages other than those in [a] and [b] (e.g., "Done X samples," "sampler off," etc.).

[4] IF there is no indication of flow and the sampler triggered due to a non-flow event, THEN describe why the sampler triggered (e.g., animal, tumbleweed, etc.).

[5] **ITEM 3**: Check and document the sampler is set to the correct MST +/- no more than 1 minute. Do **NOT** use Daylight Savings Time.

[a] IF the sampler is set incorrectly, THEN reprogram for the correct MST.

[b] Describe the work performed and correction applied (e.g., "ISCO clock was X minutes slow").

[6] If the location has more than one sampler, complete Steps 1 through 5 for each sampler.

### *4.1.2 Water Collection Information*

[1] Don nitrile gloves and safety glasses.

[2] Remove the center section from the sampler.

[3] **ITEM 4**: Document evidence of stormwater flow at the sampling location by describing the evidence of flow (e.g., sediment or vegetation movement, erosion, standing water).

[a] IF the sampler did not trip but there is evidence of flow, THEN document the date and time stormwater discharge began from the precipitation report.

[b] IF the sampler tripped or collected stormwater, THEN document the date/time stamp from the sampler (or from the precipitation report if the sampler did not record a date/time stamp).

[4] **ITEM 5**: Document that stormwater is collected.

[a] Document if the water is taken by grab sample.

[b] Complete the Bottle Information (**ITEM 19**) in Section 4.1.7.

[c] Follow the steps in Section 4.2 through Step 16 to retrieve samples.

[5] **ITEM 6**: For Avalanche samplers only, record the current refrigerator temperature in degrees Celsius (°C) when water is collected.

[a] IF unable to review the temperature,
THEN check "No" and describe the condition (e.g., dead battery, electrical short).

### *4.1.3 Water Retrieval Information*

[1] **ITEM 7**: Check and document whether a sample volume was retrieved from the sampler and taken off site.

[a] Record the estimated total volume in liters (L) or milliliters (ml) **taken off-site**.

[2] **ITEM 8**: Check and document whether a visual assessment of the water was performed (refer to EPC-CP-QP-2105).

[a] Do **NOT** conduct a visual assessment on a filtered sample. Record "Filtered sample."

### *4.1.4 On Departure*

**WARNING**
You MUST be trained to LANL electrical safety standards as prescribed in the IWD before performing Steps 2 and 3.

[1] Prepare yourself in accordance with the IWD for electrical work (e.g., wear safety glasses and leather gloves, use insulated tools, no jewelry or anything metal hanging from body, etc.)

[2] **ITEM 9**: Check that all cable and electrical connections are attached and firmly tightened (not loose) upon departure.

***NOTE:*** Connections may work loose over time due to temperature changes and if there are dis-similar metals at the connection points. The loose connections can introduce voltage spikes, which inherently cause current spikes that may result in blown fuses.

[a] IF the cables require replacement, connections require tightening, or other maintenance performed,
THEN describe the work performed (e.g., "tightened connectors on battery).

[b] IF maintenance cannot be completed at the time of inspection,
THEN describe the condition (e.g., cables chewed through by animal) and follow-up work needed (e.g., replace cables).

[3] **ITEM 10**: Use a voltage meter to check the power supply.

[a] Record the voltage of the battery(ies) in volts (V).

[b] Document if battery voltage is acceptable upon departure from the site (≥11.7 for non-floating charged batteries at ISCO 3700 samplers and ≥11.0 for floating-charged batteries at Avalanche samplers).

[c] Replace a battery with a charged battery when the voltage is not acceptable.

[d] Check the voltage of the solar panel if access can be gained to the weather protected terminal covers on the back of the panel.

[4] Contact the program Electrical Safety Officer if any issues with wiring or batteries cannot be resolved on site.

### *4.1.5 Equipment Specific Tasks*

[1] **ITEM 11**: Check and document the sampler passes the diagnostic test. (Refer to EPC-CP-TP-2102 or sampler Operator's Guide for instructions on running a diagnostics test.)

[a] IF a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form,

THEN answer this task line question as "N/A." Subsequent questions regarding this sampler may be left unanswered in this section.

**CAUTION**
Only reset the pump counts after replacing the internal pump tubing.

[2] IF the internal pump tubing has reached or exceeded the preset pump counts (500,000 for ISCO 3700s, 1,000,000 for Avalanches),

THEN replace the pump tubing and reset the pump counts.

[3] **ITEM 12**: Check and document the sample tubing is free or clear of debris.

[a] Clear obstructions, as needed, and document maintenance performed.

[4] Check the physical condition of sample tubing and vent tubing.

[a] Replace tubing as needed and document maintenance performed.

[5] **ITEM 13**: Check and document the sample tubing has passed a suction test.

[6] **ITEM 14**: Check and document the sampler is ON prior to departing the site.

[7] **ITEM 15**: Check and document the liquid level actuator has been set to "Latch" prior to departing the site.

[a] IF the sampler tripped and requires reset of the sampling program,

THEN reset the actuator by toggling the switch to "Reset" and back to "Latch."

[8] **ITEM 16**: Check and document the ISCO programming displays the following.

[a] ISCO 3700 sampler display should indicate "Sampler Inhibited."

[b] Avalanche sampler display should indicate "Program Disabled."

[c] Reprogram the sampler as needed and document maintenance performed.

[9] Replace and secure the sampler top cover and secure the sampler shelter (if sampler is in a shelter).

[10] If the location has more than one sampler, complete Steps 1 through 9 for each sampler.

### *4.1.6 Maintenance Information*

[1] **ITEM 17**: Document maintenance completed while on-site that is not documented elsewhere on the work order by describing the work performed.

***NOTE***: Maintenance items may include (but are not limited to) site clearing, installing new or additional equipment, removing equipment, animal/pest mitigation, problems with equipment location, etc.

[2] IF a battery was replaced,
THEN record the voltage of the new battery and the battery identification number or manufacture date.

[3] **ITEM 18**: Document if maintenance is needed that was not completed while on site and that is not documented elsewhere on the work order.

[a] Describe on the work order the follow-up maintenance needed.

[b] When the maintenance has been complete, describe the actions taken to complete the work on the original work order.

[c] Record the maintenance completion date and time on the original work order.

### *4.1.7 Bottle Information*

[1] **ITEM 19**: Document water collected by recording the following information for each bottle by position number in the carousel.

- Date (MM/DD/YY or MM-DD-YY) and time the ISCO collected water,
- Volume (L or ml) of water in the bottle,
- Type of bottle (e.g., G for glass, P for poly),
- Specific ISCO displayed message if present.

[2] IF the sampler(s) did not trigger,

THEN answer the task line question as "N/A" for Bottle #1 of each sampler and leave the other Bottle task lines unanswered.

[3] IF a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form,

THEN answer the task line question as "N/A". Subsequent questions regarding this sampler may be left unanswered in this section.

[4] Proceed to Section 4.4 if no water was collected.

### 4.2 Retrieving Samples

Refer to the flow diagram in Attachment 3 as an aid in determining sample retrieval.

[1] Don nitrile gloves and safety glasses.

[2] Add up the estimated volume of water collected in the sampler.

[3] Check that the estimated total volume of water in glass and poly matches the required volume for the specific location identified in the MSGP SAP.

***NOTE 1:*** The volume of water required to complete analysis may vary by monitored location.

[a] IF the sample volume is sufficient to fulfill all analytical requirements,

THEN continue to Step 4.

[b] IF the sample volume is sufficient to fulfill part of the analytical requirements,

THEN consult the prioritization order on the MSGP SAP to determine which analysis to fulfill,

OR contact the MSGP Data Manager. Continue to Step 4 but retrieve only the volume needed.

[c] IF the collected sample will NOT fulfill the minimum required volume for any analysis,

THEN:

- Complete a Visual Assessment if the sample is not filtered (refer to EPC-CP-QP-2105),
- Record estimated total volume (L or ml) retrieved as "0" in **ITEM 7**,
- Return all water to the ground at the sampling location,
- Skip to Step 11.

**CAUTION**
ISCO Avalanche samplers are programmed to cool samples to 4°C. If water is collected and the refrigerator temperature reads higher than 6°C, **do not** retrieve samples that require ICE preservation. Samples do not meet preservation requirements.

[4] Remove filled and partially filled bottles from the carousel one at a time.

[5] For samples to be retrieved,

[a] Immediately place lids onto the sample bottles.

[b] Securely seal the lids.

[c] Place a custody seal on each bottle.

[6] Write the following on each retrieved sample bottle.

- Date and time collected (e.g., recorded by the ISCO sampler)
- Sampler Location number

[7] Conduct a Visual Assessment on a non-filtered sample (refer to EPC-CP-QP-2105).

[8] Record estimated total volume (L or ml) retrieved in **ITEM 7**.

[9] Place retrieved sample bottles in a cooler with blue ice (or equivalent).

[10] Return any excess stormwater collected that exceeds the amount required for analysis to the ground at the location collected.

[11] Install new certified clean sample bottles in the carousel to replace retrieved bottles.

[a] The number and type of bottles may vary. Ensure bottles match the configuration specified in the MSGP SAP.

[12] Replace the 0.45-micron filter as needed.

***NOTE 2:*** Consult the most current revision of the MSGP SAP for specifics.

[13] IF the sampler is turned OFF for the quarter but new certified clean sample bottles and/or the filter have not been replaced,
THEN note this as follow-up maintenance required in **ITEM 18**.

[14] Replace and secure the center section of the sampler.

[15] If the location has more than one sampler, complete Section 4.1.7 thru Section 4.2 for each sampler.

[16] Return to Section 4.1.2, Step 5.

### 4.3 Removing Stormwater Samples from the field

[1] Transport retrieved samples and corresponding SCPL (see EPC-CP-QP-2106) to the EPC-CP Stormwater Program Laboratory at TA-59-1.

[2] Take a pH measurement.

[3] Sign and date/time the SCPL and place it with the samples in the refrigerator.

[4] Ensure custody seal is intact on each sample bottle.

[5] Refer to EPC-CP-QP-2106, *Processing MSGP Stormwater Samples* for processing and submitting samples for shipping to the SMO.

[6] Ensure the EPC-CP Stormwater Program Laboratory door is locked upon exit.

### 4.4 Completing the Inspection Form

See Attachment 1 for completing the form in MC Express and Attachment 2 for a hard copy example.

[1] After all task lines have been completed, make sure you have clicked the "Save" bar at the bottom of the page.

[2] Click the "Back" arrow button  in the upper left hand corner to exit the work order Tasks page and return to the Work Order Summary page.

[3] Click the checkered flag  in the upper right corner of the Work Order Summary page to open the Work Order Status Update page. MC Express auto-populates the date and time fields.

**CAUTION**
MC Express automatically changes the work order status to "Closed."

[4] **ITEM 20:** Click on the expand arrow located on the right side of the "New Status" field and select "Completed" from the available dropdown menu.

[a] Ensure the date and time auto populated are the date and time the **work was completed** and ***not* the date/time the form was filled out**.

[b] IF work is performed over multiple days,
THEN note the date and time the work began in the Labor Report field.

[c] To update the date or time, click the "Date" field and make necessary adjustments using the available timestamp application. Click "Set" to apply changes.

[d] IF using a hard copy form,
THEN write the date and time the work was completed.

[5] **ITEM 21:** The field personnel must type or write his/her name in the "Labor Report Update" field.

[6] Additional notes, observations, or site conditions not documented in a task line "Reading" or "Comments" field can be documented in the "Labor Report Update" field.

[7] Scroll down the page to the "Signature" bar and click the expand arrow on the left side of the bar to open the "Signature" field.

[a] **ITEM 22**: Capture an electronic signature by drawing with a finger on the tablet screen.

***NOTE:*** The mouse must be used to sign electronically when using MC Express on a desktop screen (not a tablet).

[b] If using a hard copy form, the field personnel will sign his/her name and date when the form is signed.

[c] Field personnel are certifying that the information submitted is "true, accurate, and complete" by electronically signing the work order.

[8] Click on the "Save" bar at the bottom of the page to close the "Signature" field.

[9] IF completing a hard copy,
THEN return the form to the MSGP Program Lead.

## 5.0 TRAINING

Personnel performing steps in this procedure that involve electrical equipment **MUST** be trained to LANL electrical safety standards as prescribed in the IWD before performing those steps.

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified in EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include "self-study" (required reading) for this procedure. Other participating LANL groups may require training documentation pursuant to local procedures. All training will be assigned and tracked using the LANL training management system, UTrain.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete "self-study" (required reading) of this procedure.

## 6.0 RECORDS

EPC-CP is the Office of Record for this document, that must be maintained in accordance with P1020-1, *Laboratory Records Management* and ESH-AP-006, *Records Management Procedure*. Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management.

As a result of implementing this procedure, below are the records generated that are identified by title and type.

| Record Title | QA Record | Non-QA Record |
|---|---|---|
| EPC-CP-TP-2103 R1 Form 1, *ISCO Sampler Inspection and Sample Retrieval* | ☒ | ☐ |

## 7.0 DEFINITIONS AND ACRONYMS

### 7.1 Definitions

See LANL *Definition of Terms*.

### 7.2 Acronyms

See LANL Acronym Master List.

| | |
|---|---|
| °C | Degrees in Celsius |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs |
| FOD | Facility Operations Division |
| IWD | Integrated Work Document |
| L | Liter |
| LANL or Laboratory | Los Alamos National Laboratory |
| MC Express | Maintenance Connection MC Express web application |
| ml | Milliliter |
| MSGP | Multi-Sector General Permit |
| MST | Mountain Standard Time |
| NPDES | National Pollutant Discharge Elimination System |
| pH | Potential Hydrogen |
| SAP | Sampling and Analysis Plan |
| SCPL | Sample Collection and Processing Log/Field Chain of Custody |
| V | Volts |

## 8.0 REFERENCES

EPC-CP-QP-2105, MSGP Stormwater Visual Assessments

EPC-CP-QP-2106, Processing MSGP Stormwater Samples

EPC-CP-TP-2102, Installing, Setting Up, and Operating ISCO Samplers

EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan

ESH-AP-006, Records Management Plan

P1020-1, Laboratory Records Management

## 9.0 ATTACHMENTS

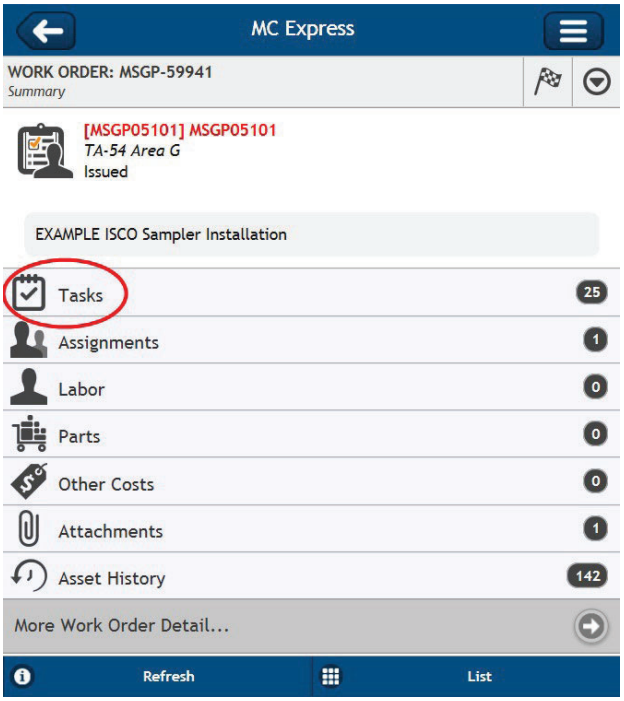
**Attachment 1:** Screenshot Examples of EPC-CP-TP-2103 R1 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express

**Attachment 2:** EPC-CP-TP-2103 R1 Form 1, ISCO Sampler Inspection and Sample Retrieval Hard Copy Example

**Attachment 3:** Sample Retrieval Flow Diagram

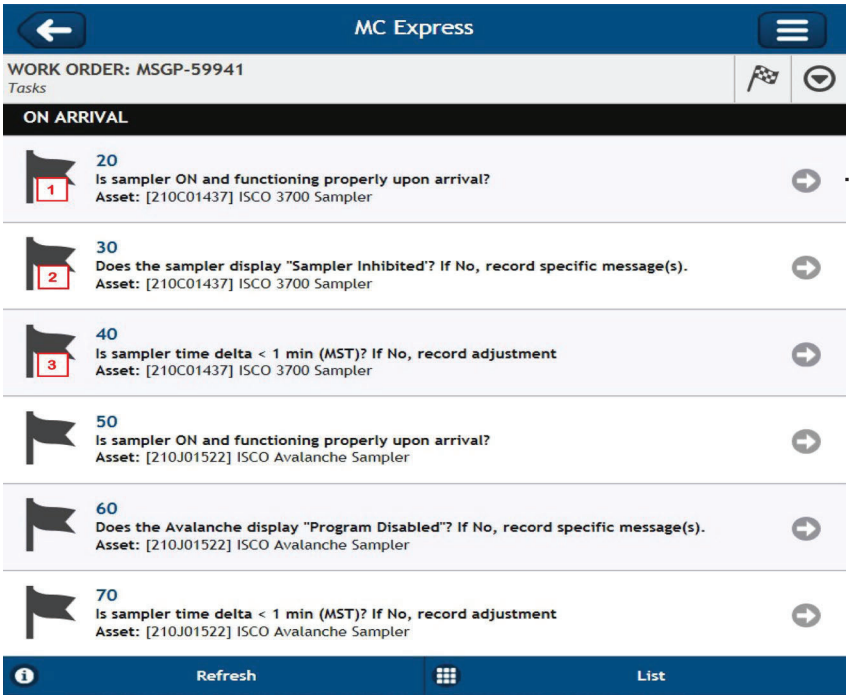
**Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express**
**Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,**
(Page 1 of 6)

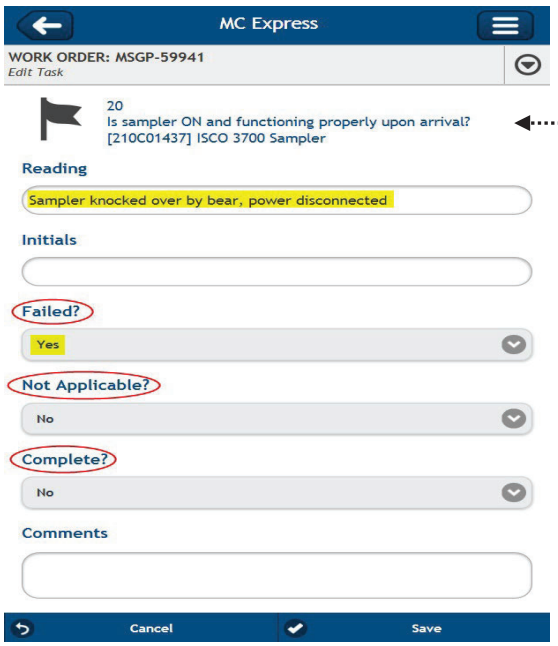
Work Order Summary Page (Section 3.1, Steps 8 and 9)



**Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)**
**Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,**
(Page 2 of 6)

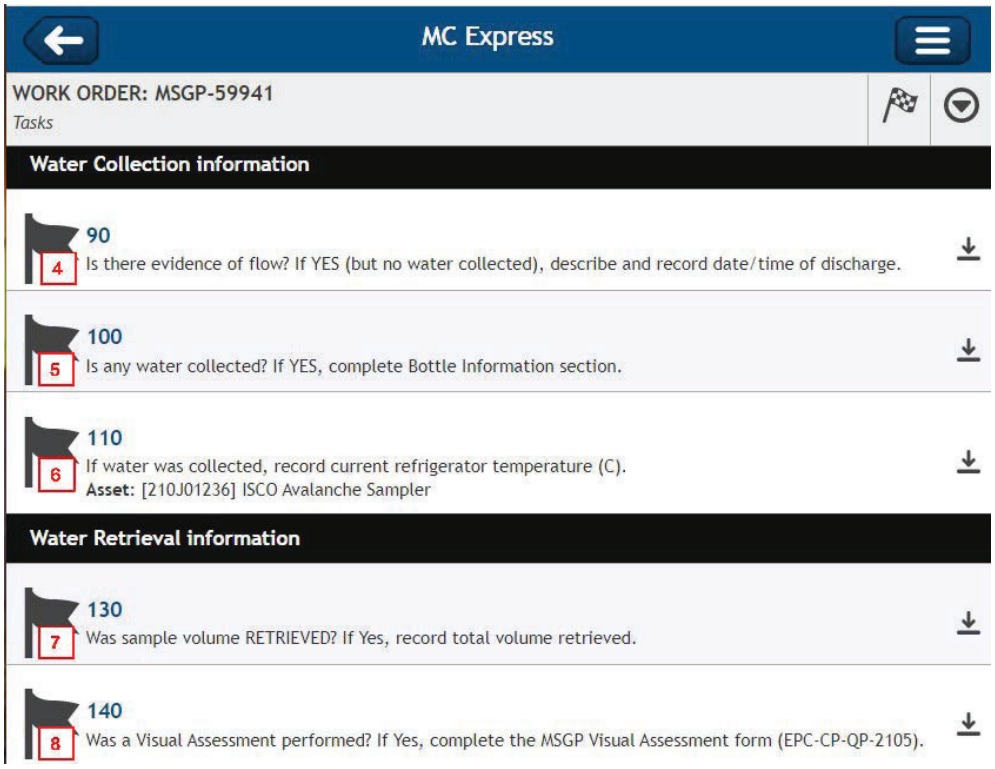
Work Order Tasks page - On Arrival (Section 4.1.1, Steps 2-5)



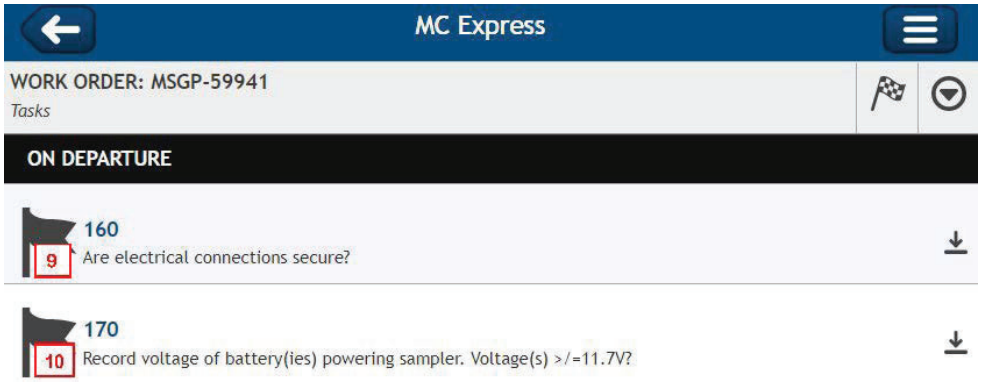



**Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)**
**Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,**
(Page 3 of 6)

Work Order Task Page – Water Collection Information and Water Retrieval Information (Sections 4.1.2, Steps 3-5 and 4.1.3, Steps 1 and 2)

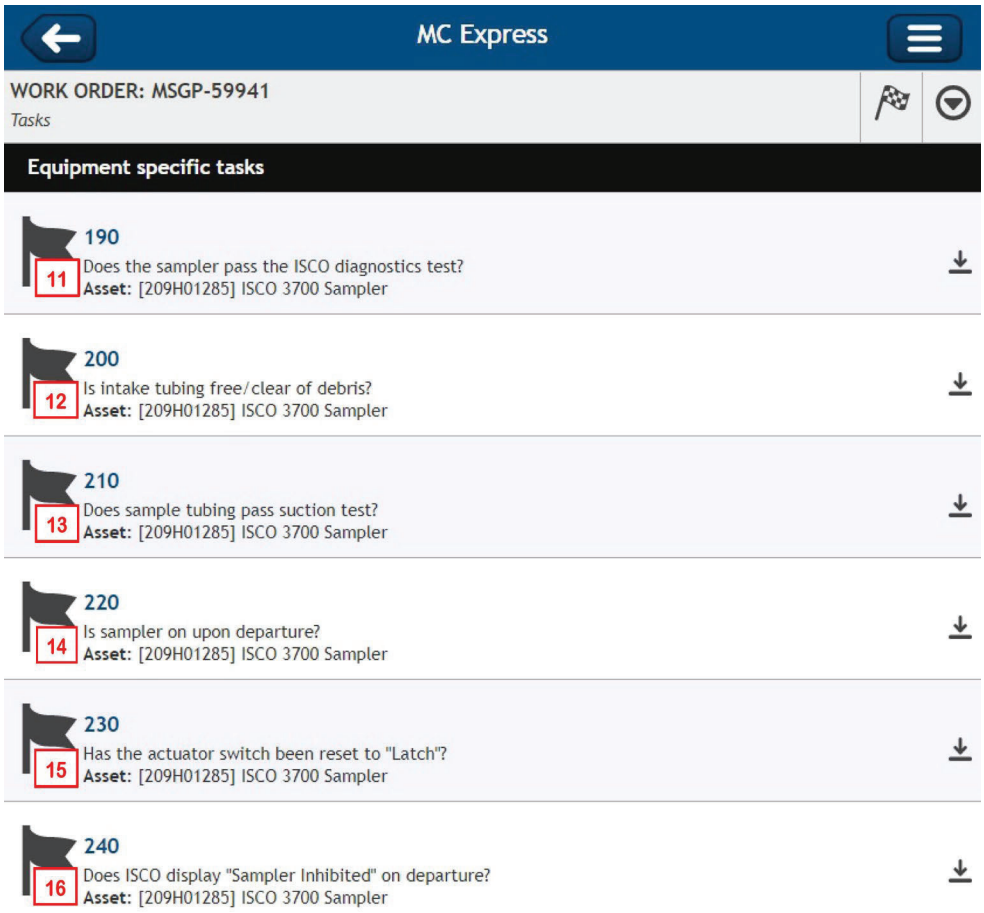



Work Order Task Page – On Departure (Sections 4.1.4, Steps 2 and 3)

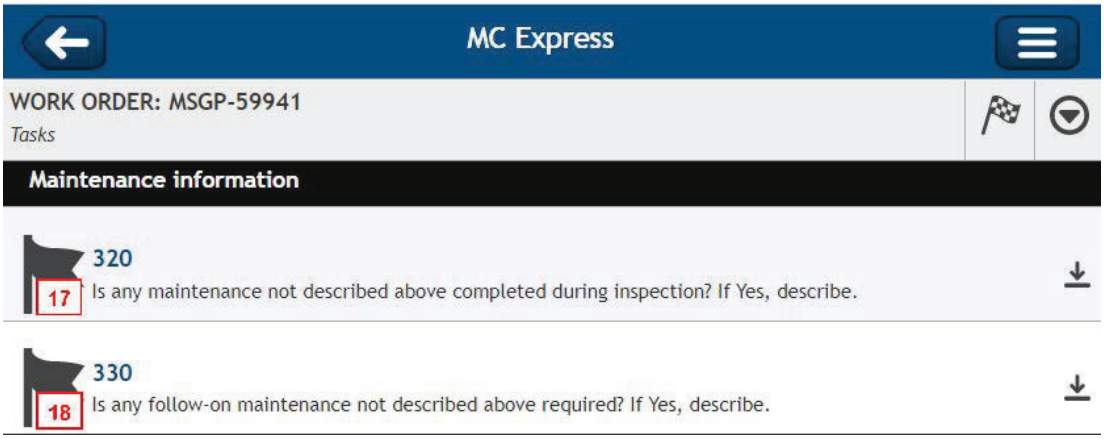


**Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)**
**Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,**
(Page 4 of 6)

Work Order Task Page – Equipment Specific Tasks (Sections 4.1.5, Steps 1-8)

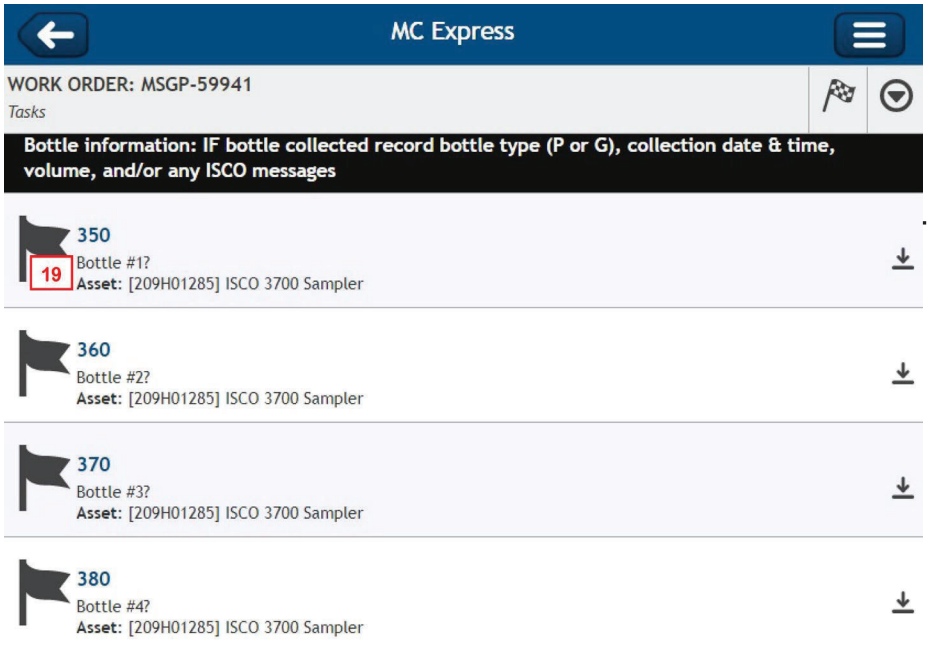


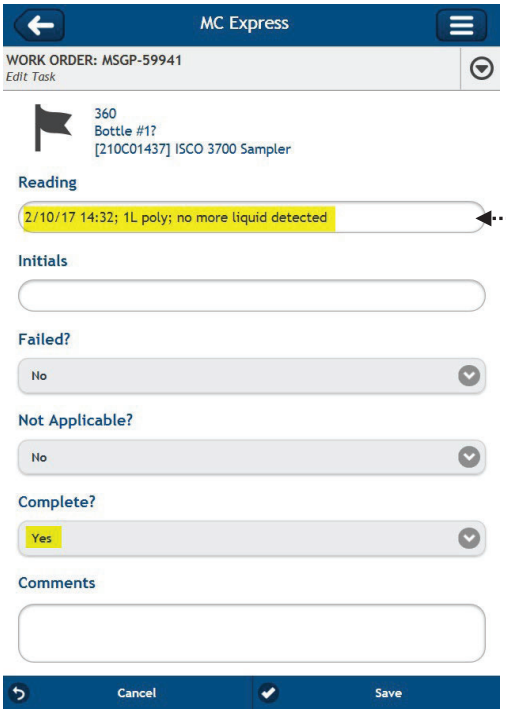

Work Order Task Page – Maintenance Information (Sections 4.1.6, Steps 1-3)



**Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)**
**Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,**
(Page 5 of 6)

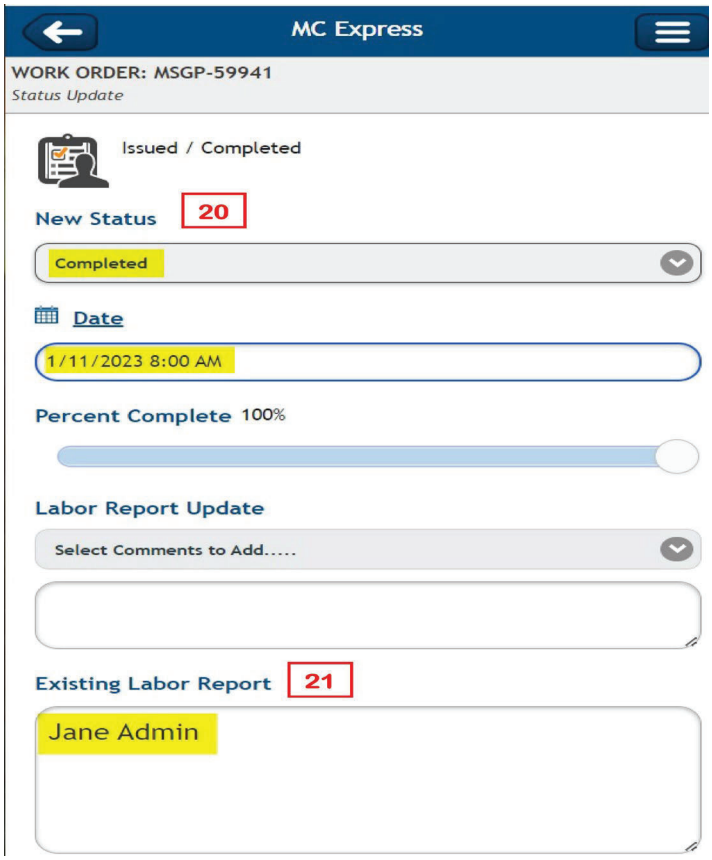
Work Order Task Page – Bottle Information (Sections 4.1.7, Step 1)



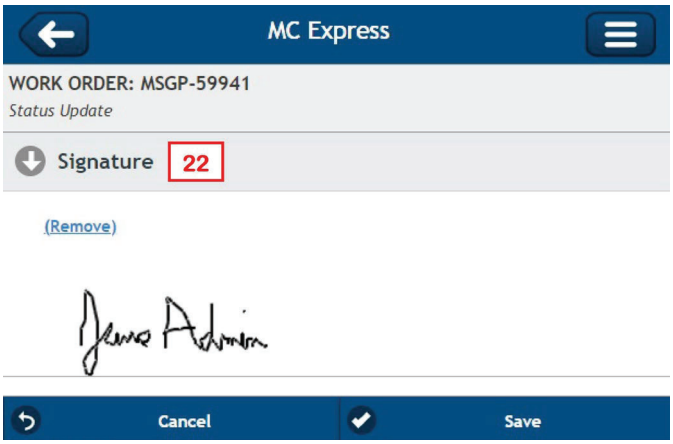



**Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)**
**Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,**
(Page 6 of 6)

Work Order Status Update Page (Section 4.4, Steps 4 and 5)




Work Order Status Update Page (Section 4.4, Step 7)



## Attachment 2: *ISCO Sampler Inspection and Sample Retrieval* Hard Copy Example
## EPC-CP-TP-2103 R1 Form 1

(Page 1 of 2)

Los Alamos National Laboratory

**Work Order MSGP-59941**
MSGP Monitoring Stations
Printed 1/11/2023 - 3:49 PM (Duplicate Copy)

**Maintenance Details**

**Requested By:** Admin, Jane on 11/1/2022 1:00:00 PM
**Procedure:** MSGP ISCO Sampler Inspection and Sample Retrieval (EPC-CP-TP-2103 R1 Form 1)
**Last PM:** N/A
**Project:** ISCO Sampler Inspections wk 3/28/22 (P-MSGP-5564)

**Target:** 1/31/2023
**Priority/Type:** / Inspection
**Department:** Weapons Facilities Operations

MSGP Program
RG253
TA-09-0214 Metal Fabrication Shop

**Contact:** Admin, Jane
**Phone:** 123-4567

**Reason:** EXAMPLE MSGP ISCO Sampler Inspection and Sample Retrieval

**Tasks**

| | # | Description | Meas. | No | N/A | Yes |
|---|---|---|---|---|---|---|
| | | **ON ARRIVAL** | | | | |
| 1 | 20 | **ISCO 3700 Sampler [209H01285]** Is sampler ON and functioning properly upon arrival? | | ☐ | ☐ | ☐ |
| 2 | 30 | **ISCO 3700 Sampler [209H01285]** Does the sampler display "Sampler Inhibited"? If No, record specific message(s). | | ☐ | ☐ | ☐ |
| 3 | 40 | **ISCO 3700 Sampler [209H01285]** Is sampler time delta < 1 min (MST)? If No, record adjustment | | ☐ | ☐ | ☐ |
| | 50 | **ISCO Avalanche Sampler [210J01236]** Is sampler ON and functioning properly upon arrival? | | ☐ | ☐ | ☐ |
| | 60 | **ISCO Avalanche Sampler [210J01236]** Does the Avalanche display "Program Disabled"? If No, record specific message(s). | | ☐ | ☐ | ☐ |
| | 70 | **ISCO Avalanche Sampler [210J01236]** Is sampler time delta < 1 min (MST)? If No, record adjustment | | ☐ | ☐ | ☐ |
| | | **Water Collection information** | | | | |
| 4 | 90 | Is there evidence of flow? If YES (but no water collected), describe and record date/time of discharge. | | ☐ | ☐ | ☐ |
| 5 | 100 | Is any water collected? If YES, complete Bottle Information section. | | ☐ | ☐ | ☐ |
| 6 | 110 | **ISCO Avalanche Sampler [210J01236]** If water was collected, record current refrigerator temperature (C). | | ☐ | ☐ | ☐ |
| | | **Water Retrieval information** | | | | |
| 7 | 130 | Was sample volume RETRIEVED? If Yes, record total volume retrieved. | | ☐ | ☐ | ☐ |
| 8 | 140 | Was a Visual Assessment performed? If Yes, complete the MSGP Visual Assessment form (EPC-CP-QP-2105). | | ☐ | ☐ | ☐ |
| | | **ON DEPARTURE** | | | | |
| 9 | 160 | Are electrical connections secure? | | ☐ | ☐ | ☐ |
| 10 | 170 | Record voltage of battery(ies) powering sampler. Voltage(s) >/=11.7V? | | ☐ | ☐ | ☐ |
| | | **Equipment specific tasks** | | | | |
| 11 | 190 | **ISCO 3700 Sampler [209H01285]** Does the sampler pass the ISCO diagnostics test? | | ☐ | ☐ | ☐ |
| 12 | 200 | **ISCO 3700 Sampler [209H01285]** Is intake tubing free/clear of debris? | | ☐ | ☐ | ☐ |
| 13 | 210 | **ISCO 3700 Sampler [209H01285]** Does sample tubing pass suction test? | | ☐ | ☐ | ☐ |
| 14 | 220 | **ISCO 3700 Sampler [209H01285]** Is sampler on upon departure? | | ☐ | ☐ | ☐ |
| 15 | 230 | **ISCO 3700 Sampler [209H01285]** Has the actuator switch been reset to "Latch"? | | ☐ | ☐ | ☐ |
| 16 | 240 | **ISCO 3700 Sampler [209H01285]** Does ISCO display "Sampler Inhibited" on departure? | | ☐ | ☐ | ☐ |
| | 250 | **ISCO Avalanche Sampler [210J01236]** Does the sampler pass the ISCO diagnostics test? | | ☐ | ☐ | ☐ |
| | 260 | **ISCO Avalanche Sampler [210J01236]** Is intake tubing free/clear of debris? | | ☐ | ☐ | ☐ |

EPC-CP-TP-2103 R1 Form 1

## Attachment 2: *ISCO Sampler Inspection and Sample Retrieval* Hard Copy Example (cont.)
## EPC-CP-TP-2103 R1 Form 1,

(Page 2 of 2)

| | | | | | |
|---|---|---|---|---|---|
| 270 | **ISCO Avalanche Sampler [210J01236]** Does sample tubing pass suction test? | | ☐ | ☐ | ☐ |
| 280 | **ISCO Avalanche Sampler [210J01236]** Is sampler on upon departure? | | ☐ | ☐ | ☐ |
| 290 | **ISCO Avalanche Sampler [210J01236]** Has the actuator switch been reset to "Latch"? | | ☐ | ☐ | ☐ |
| 300 | **ISCO Avalanche Sampler [210J01236]** Does Avalanche display "Program Disabled" on departure? | | ☐ | ☐ | ☐ |
| | **Maintenance information** | | | | |
| 17 320 | Is any maintenance not described above completed during inspection? If Yes, describe. | | ☐ | ☐ | ☐ |
| 18 330 | Is any follow-on maintenance not described above required? If Yes, describe. | | ☐ | ☐ | ☐ |
| | **Bottle information: IF bottle collected record bottle type (P or G), collection date & time, volume, and/or any ISCO messages** | | | | |
| 19 350 | **ISCO 3700 Sampler [209H01285]** Bottle #1? | | ☐ | ☐ | ☐ |
| 360 | **ISCO 3700 Sampler [209H01285]** Bottle #2? | | ☐ | ☐ | ☐ |
| 370 | **ISCO 3700 Sampler [209H01285]** Bottle #3? | | ☐ | ☐ | ☐ |
| 380 | **ISCO 3700 Sampler [209H01285]** Bottle #4? | | ☐ | ☐ | ☐ |
| 390 | **ISCO 3700 Sampler [209H01285]** Bottle #5? | | ☐ | ☐ | ☐ |
| 400 | **ISCO 3700 Sampler [209H01285]** Bottle #6? | | ☐ | ☐ | ☐ |
| 410 | **ISCO 3700 Sampler [209H01285]** Bottle #7? | | ☐ | ☐ | ☐ |
| 420 | **ISCO 3700 Sampler [209H01285]** Bottle #8? | | ☐ | ☐ | ☐ |
| 430 | **ISCO 3700 Sampler [209H01285]** Bottle #9? | | ☐ | ☐ | ☐ |
| 440 | **ISCO 3700 Sampler [209H01285]** Bottle #10? | | ☐ | ☐ | ☐ |
| 450 | **ISCO 3700 Sampler [209H01285]** Bottle #11? | | ☐ | ☐ | ☐ |
| 460 | **ISCO 3700 Sampler [209H01285]** Bottle #12? | | ☐ | ☐ | ☐ |
| 470 | **ISCO Avalanche Sampler [210J01236]** Bottle #1? | | ☐ | ☐ | ☐ |
| 480 | **ISCO Avalanche Sampler [210J01236]** Bottle #2? | | ☐ | ☐ | ☐ |
| 490 | **ISCO Avalanche Sampler [210J01236]** Bottle #3? | | ☐ | ☐ | ☐ |
| 500 | **ISCO Avalanche Sampler [210J01236]** Bottle #4? | | ☐ | ☐ | ☐ |

**Labor Report**

20 **Completed:** 1/11/2023 8:00:00 AM

21 **Report:** Jane Admin

22

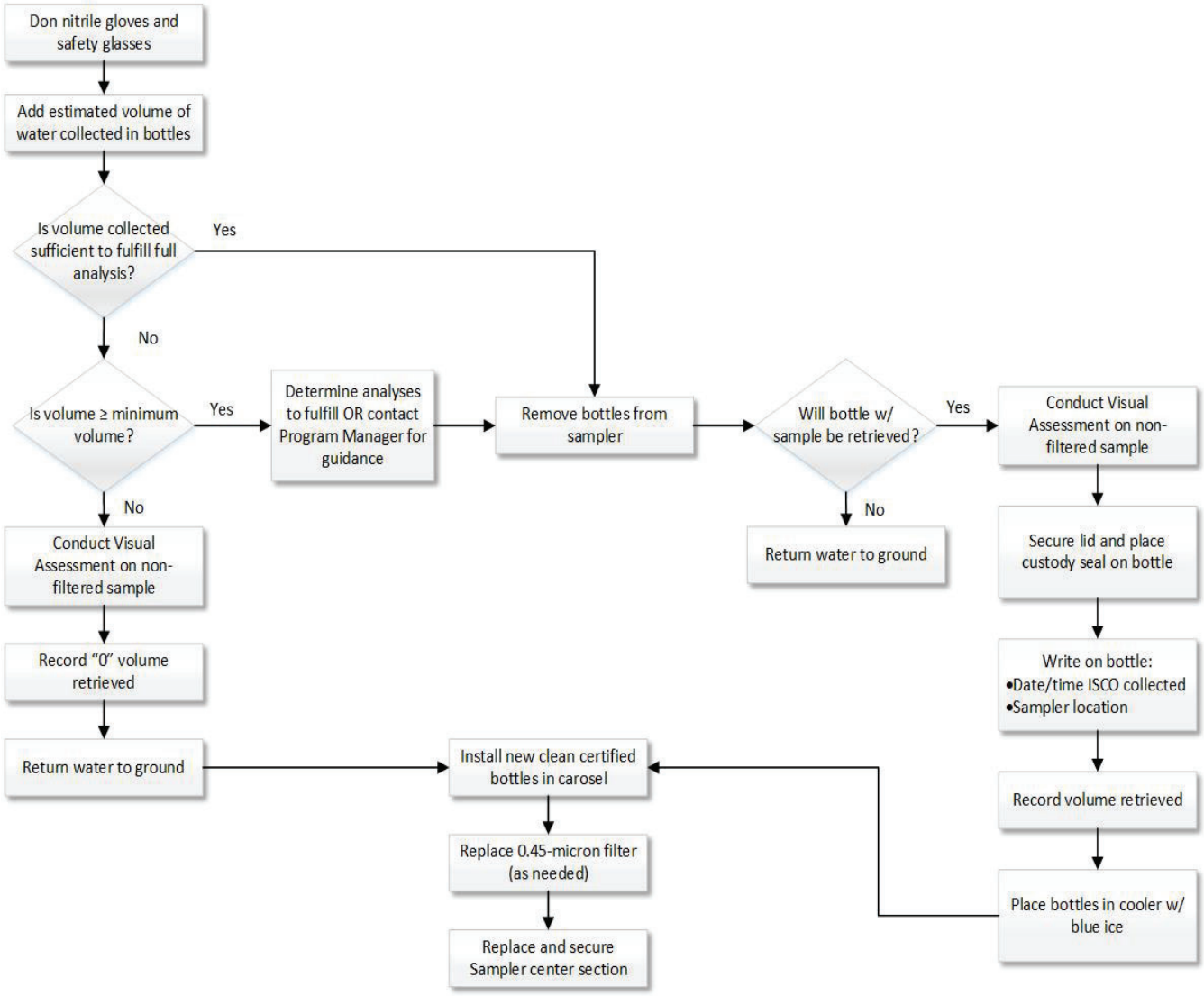
| Signature / Name | Date | Signature / Name | Date |
|---|---|---|---|
| Jane Admin | 1/11/2023 | | |

I confirm the information as recorded is true, accurate and complete.

EPC-CP-TP-2103 R1 Form 1

## Attachment 3: Sample Retrieval Flow Diagram

(Page 1 of 1)



## ATTACHMENT 20: EPC-CP-QP-2106, PROCESSING MSGP STORMWATER SAMPLES

| EPC-CP-QP-2106 | Revision: **1** |
|---|---|
| Effective Date: 11/28/2022 | Next Review Date: 11/28/2025 |

Los Alamos NATIONAL LABORATORY

## Environment, Safety, Health, Quality, Safeguards, and Security Directorate
## Environment Protection and Compliance – Compliance Programs Group
## Quality Procedure

# Processing MSGP Stormwater Samples

**Hazard Grading:** ☒ Low ☐ Moderate ☐ High/Complex

**Usage Level:** ☒ Reference ☐ UET ☐ Mixed: UET Sections: _____

**Status:** ☐ New ☒ Major Revision ☐ Minor Revision

☐ Review w/No Changes ☐ Other: _____

**Safety Basis:** ☒ N/A ☐ USQ ☐ USI Number: _____

### Document Author/Subject Matter Expert:

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Alethea Banar | EPC-CP | Signature on File | 10-26-2022 |

### Derivative Classifier: ☒ Unclassified or ☐ _____

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Steven Wolfel | EPC-CP | Signature on File | 10-26-2022 |

### Approval Signatures:

| Subject Matter Expert: | Organization: | Signature: | Date: |
|---|---|---|---|
| Holly Wheeler | EPC-CP | Signature on File | 11-01-2022 |
| Responsible Line Manager: | Organization: | Signature: | Date: |
| Terrill Lemke, Team Leader | EPC-CP | Signature on File | 11-16-2022 |
| Responsible Line Manager: | Organization: | Signature: | Date: |
| Steve Story, Group Leader | EPC-CP | Signature on File | 11-28-2022 |

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*Users are responsible for ensuring they work to the latest approved version.*
*To document a required read, Login to UTrain, and go to the Advanced Search.*

## REVISION HISTORY

| Document Number and Revision | Effective Date | Description of Changes |
|---|---|---|
| ENV-RCRA-QP-048, Rev. 0 | 07/2011 | New document |
| ENV-CP-QP-048, Rev. 1 | 09/2013 | Annual Review and Revision, new format, process change, and new organization name. |
| EPC-CP-QP-048, Rev. 2 | 06/05/2017 | Review and Revision, new format, and new organization name, clarified steps, updated attachments. |
| EPC-CP-QP-048 R3 | 10/05/2017 | Updated Sample Collection Log instructions, added a step describing evidence of flow, and added section for addressing excess stormwater material. |
| EPC-CP-QP-048 R4 | 01/31/2019 | Sample Collection Log form and associated text updated. Added text for collecting quality control samples. |
| EPC-CP-QP-2106 R0 | 10/18/2019 | Supersedes EPC-CP-QP-048 R4. New EPC-CP procedure format and numbering system. Minor editorial updates. |
| EPC-CP-QP-2106 R1 | 11/28/2022 | Supersedes EPC-CP-QP-2106 R0. Review and revise to update to the 2021 MSGP. |

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## 1.0 INTRODUCTION

Triad National Security LLC, the operator for Los Alamos National Laboratory (LANL or the Laboratory), conducts stormwater monitoring activities pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP). As part of this monitoring, Environmental Protection and Compliance, Compliance Programs (EPC-CP) personnel collect stormwater discharge samples from discharge points at industrial sites and prepare them for analysis.

### 1.1 Purpose

This procedure describes the process for filtering, preserving and preparing stormwater samples for shipment to an analytical laboratory from locations where EPC-CP conducts stormwater monitoring activities required pursuant to the NPDES MSGP. This procedure may also be used for other Associate Laboratory Directorate for Environment, Safety, Health, Quality, Safeguards, and Security (ALDESHQSS) stormwater monitoring activities as needed.

### 1.2 Scope

Stormwater samples are collected in the field with either a refrigerated Avalanche® or ISCO 3700 automated sampler, single stage sampler, or by hand. When in-line filtration is not possible, sample filtration, along with chemical preservation (as required) is conducted immediately following sample retrieval in the field or in the EPC-CP Stormwater Laboratory (TA-59-0001).

Sample collection, submission, and analysis is conducted using Environmental Protection Agency (EPA) and New Mexico Water Quality Control Commission guidelines. MSGP monitoring samples are collected and analyzed according to test procedures approved under Title 40 of the Code of Federal Regulations Part 136 unless other test procedures have been specified in the MSGP. Quantitation limits associated with these test procedures are sufficiently sensitive to meet MSGP limits.

### 1.3 Applicability

This procedure applies to EPC-CP technical staff and subcontractor personnel (as applicable) who conduct processing and chemical preservation of stormwater samples either in the EPC-CP Stormwater Laboratory or in the field.

The MSGP Program Lead is the primary person responsible for this procedure. EPC-CP personnel are appointed responsibility for a subset of sampling stations. Other stormwater monitoring programs or projects utilizing this procedure will refer to program or project specific roles and responsibilities.

## 2.0 PRECAUTIONS AND LIMITATIONS

The hazard level for the activities in this procedure is **LOW.** An Integrated Work Document Part II (2101 Form) will address any site-specific requirements and training for Facility Operations Divisions (FOD) if required by the FOD.

Use only sample containers that are documented to meet or exceed "US EPA Specification and Guidance for Contaminant-Free Sample Containers" (Publication 9240.05A, EPA/540/R-93/051, December 1992). Never clean or re-use sample containers. Keep containers in a clean, dry place until a sample is ready for processing and transfer to the appropriate container(s).

## 3.0 PREREQUISITE ACTIONS

### 3.1 Planning and Coordination

Refer to the most current revision of the MSGP or program/project specific Sampling and Analysis Plan (SAP) to determine the need for collecting quality control samples. Collect the types and quantities of quality control samples at the locations specified.

Schedule and complete stormwater processing to meet the analytical holding time requirements identified in the MSGP SAP or as requested by the MSGP Program Lead. Other stormwater monitoring programs or projects utilizing this procedure will refer to their program or project specific SAP.

The MSGP Data Manager will generate Water Sample Collection and Processing Log/Field Chain of Custody (SCPL) form(s) at the beginning of the MSGP monitoring year and/or the beginning of each MSGP monitoring quarter from the Environmental Information Management (EIM) database. If the MSGP Data Manager is not available, forms will be obtained from the EPC-CP Sample Management Office (SMO). The SMO will generate Chain of Custody/Analysis Request form(s) as samples are submitted for shipment to an analytical laboratory.

### 3.2 Performance Documents

Personnel performing this procedure will be familiar with the most current versions of the following documents if the equipment or chemicals are utilized.

- EPC-CP MSGP SAP for the current monitoring year
- Peristaltic Pump User Manual (e.g., GeoTech®)
- pH meter and probe user manual (e.g., HACH sensION® + Portable Meter, HACH 50 50 T® probe)
- Material Safety Data Sheet or Safety Data Sheet for preservation chemicals

### 3.3 Special Tools, Equipment, Parts and Supplies

Ensure the following equipment is available:

- Safety glasses with side shields
- Nitrile gloves
- Lab coat
- Eyewash in Stormwater Lab (or portable eyewash in the field)

- Water SCPL form
- EPC-CP MSGP SAP most recent revision for the current monitoring year OR project specific monitoring plan
- Sample containers (glass and poly bottles)
- Sample container lids
- pH meter and probe
- Acid and base preservatives
- Clean silicon (e.g., Tygon) tubing
- Portable peristaltic pump (e.g., Geopump or equivalent)
- 0.45 micron (µm) and/or 0.10 µm cartridge filters (where applicable)
- Deionized water (where applicable)
- Paper towels
- Coolers with ice, Blue Ice®, or equivalent
- Ball point pen
- Permanent marker
- Chain-of-custody seals/tape
- Copy of this procedure
- Cell phone (only government cell phones are allowed in secure areas) (See https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property.

### 3.4 Equipment Calibration

Some analyses specified in the program or project SAP require recording field parameters such as pH. If a pH meter and probe are used, the equipment will be calibrated once before each use. Follow the instructions in the equipment manufacturer's manual to perform a three-point calibration with certified pH buffers 4.00, 7.00, and 10.00. Record the calibration results in a dedicated calibration notebook or on EPC-CP-QP-2106 R1 Form 1, *MSGP pH Probe Calibration Log* (see Attachment 1).

## 4.0 PROCESSING SAMPLES

In this procedure, sample collection bottles are the bottles in which the sample was collected in the field. Sample containers are containers into which the original sample is transferred (as necessary) during processing and shipped to the analytical laboratory.

***NOTE*:** Prior to performing any of the steps in the following sub-sections, ensure that you are wearing the proper clothing. Don nitrile gloves, safety glasses with side shields, and a lab coat. Confirm that the eyewash station is operational prior to processing samples.

### 4.1 Preparation for Processing Samples

**Sample Retriever**

[1] Arrange sample collection bottles on the workbench in order by MSGP sampling location, ensuring to distinguish bottles collected via in-line filtration from non-filtered bottles, where applicable.

**CAUTION**

Process only one sample set (i.e., samples listed on one SCPL form or samples from one location) at a time to ensure stormwater from different locations is not co-mingled.

[2] Cross-check the Location ID (e.g., MSGP00201) on the sample bottles with the LOCATION ID on the SCPL form (see example in Attachment 2).

[3] Ensure the pre-populated information on the SCPL form is correct. Document any changes [e.g., change FIELD MATRIX code from rain (WT) to snowmelt (WM)].

[4] Write the following information on the SCPL.

[a] Sampler Inspection and Sample Retrieval form (refer to EPC-CP-TP-2103) identification number (e.g., Work Order: MSGP-xxxx);

[b] Date/time the sample was collected in the field (e.g., date/time automated sampler filled the sample bottles or a grab sample was taken);

[c] Date/time the sample was retrieved from the field;

[d] “Not Applicable” (N/A) in the LOCATION SYNONYM(S) field unless the information is required by the SAP;

[e] N/A in the PRIORITY box if box is not pre-populated;

[f] Any pertinent information regarding sample collection and/or retrieval in the SAMPLE COMMENTS field (e.g., grab sample collected by hand, recent erosion observed up-gradient of sampler) or N/A;

[g] N/A for FIELD PARAMETER Sample Time (this is documented at the top of the form as COLLECTION TIME);

[h] pH measurement taken at the time the sample was collected in the field OR time sample was received at the EPC-CP Stormwater Laboratory (if applicable) or N/A;

[i] Indicate if a visual assessment was performed.

- IF a visual assessment **WAS NOT** performed,
  THEN write N or No in the Visual Inspection space.
- IF a visual assessment **WAS** performed,
  THEN write Y or Yes in the Visual Inspection space and the identification number from the MSGP Visual Assessment form (refer to EPC-CP-QP-2105) (e.g., MSGP-xxxx).

[j] The printed name and signature of the person who retrieved the sample in the COLLECTED BY box and date/time the sample was retrieved from the field.

[5] IF the person who retrieved the sample is processing,
THEN write N/A in the first RELINQUISHED BY and RECEIVED BY boxes.

[6] IF the person who retrieved the sample is NOT processing,
THEN

[a] He/she will print and sign his/her name and the date/time samples are relinquished to the processor in the RELINQUISHED BY box.

[b] The processor will print and sign his/her name and the date/time samples are received in the first RECEIVED BY box.

**Sample Processor**

[7] Ensure the following information is correct for the analysis requested on the SCPL.

[a] Sample container volume and type [e.g., 500 milliliter (mL) POLY].

[b] Preservation type (e.g., ICE).

[c] Note any deviation from the planned sample container volume, type, or preservation on the SCPL.

[8] Determine which samples require filtration and chemical preservation as requested on the SCPL.

[a] Match each sample container with the SCPL(s) on the workbench.

***NOTE 2*:** Requirements are also identified in the most current SAP revision.

[9] For split samples, follow these steps:

[a] Turn the sample collection bottle upside down multiple times to ensure sediment is loose from the bottom of the bottle.

[b] Pour sample into sample containers ensuring the sample remains homogenized throughout the transfer.

[10] Refer to Section 4.2 Filtering Samples, Section 4.3 Preserving Unfiltered and Filtered Samples, and Section 4.4 Quality Control Samples as needed.

[11] Indicate if each sample on the SCL was collected by writing Y for Yes or N for No in the COLLECTED Y/N box.

[12] IF the SPECIAL INSTRUCTIONS box is not pre-populated,
THEN write N/A in the box.

[13] Document any other deviations from the planned sample processing on the SCPL (e.g., turbid sample required extra filtration step, used standard deionized water in lieu of ultrapure water for field blank) under PROCESSING COMMENTS or SAMPLING COMMENTS,

OR write N/A.

[14] IF no further processing is required (e.g., chemical preservation),
THEN apply a chain-of-custody seal/tape around the bottle and lid and sign and date the seal/tape.

[15] The person processing the sample will print and sign his/her name and indicate the date/time samples were processed in the PROCESSED BY box.

[16] Proceed to Section 4.5.

### 4.2 Filtering Samples

Filter samples if specified on the SCPL or if an in-line filter was not used during sample collection.

[1] Select the appropriate-sized cartridge filter (e.g., 0.10µm or 0.45µm).

[2] Set up the filter assembly.

[a] Attach an appropriate amount of silicone tubing to both ends of the cartridge filter.

[b] Place the filter upstream of the peristaltic pump to prevent over-pressurization.

[c] IF the sample contains a significant amount of sediment,
THEN a pre-filter of the same size or larger micron capacity may be used.

[3] For split filtered samples, follow these steps:

[a] Move the intake tube up and down through the sample during filtration.

***NOTE 1:*** A sample collected solely for filtration can be filtered without being homogenized by gently shaking.

[4] Replace the filter if any of the following conditions occur:

- flow diminishes,
- the pump begins to make a grinding sound, or
- the tubing is forced off the filter by backpressure.

[5] Place the lid on the container.

[a] Ensure the lid is securely affixed to the container.

[b] Add a check mark next to the filtered requirement previously marked on the lid to indicate that filtration has been completed.

[c] Clean and dry the exterior of sample container.

[d] Check sample container for leakage and breakage.

[6] Remove and dispose of filter and tubing when filtration of one sample set (location) has been completed.

***NOTE 2*:** A new filter must be used with each new sample set.

[7] Return to Section 4.1, Step 11.

### 4.3 Preserving Unfiltered and Filtered Samples

Preservation entails the addition of acid or base to a sample. Acids currently used include hydrochloric acid (HCl), nitric acid ($HNO_3$), and sulfuric acid ($H_2SO_4$). Bases currently used in preservation include sodium hydroxide (NaOH). Review the appropriate Material Safety Data Sheet or Safety Data Sheet for specific guidelines prior to preserving samples. Specific acids/bases used depend on the required monitored parameters and are subject to change (e.g., biennial Clean Water Act §303(d)/305(b) Integrated Report updates).

**WARNING**
Preservatives are strong acids and bases that can cause severe burns. Take extreme care when using these acids and bases.

[1] Review the analysis requested on the SCPL or SAP.

[2] Select the pre-measured preservative type and size that matches the sample container size.

[a] IF you only have one size pre-measured preservative that does not match the sample container size,
THEN you will use more than one. For example, if you have a 1-liter sample container and 500 mL pre-measured preservative vial, you will need to add two preservative vials to the sample container.

***NOTE*:** Never "split" a larger volume pre-measured vial to preserve a smaller volume container (e.g., do not pipette from a 1-liter, pre-measured preservative vial to preserve a 500 mL sample). Error in measurement precision may lead to a risk of violating Department of Transportation shipping requirements.

[3] Add the preservative (acid or base) to the sample.

[a] Securely affix the lid to the container.

[b] Agitate the preserved sample by turning the container upside down two to three times.

[4] Add a check mark next to the preservation type previously marked on the lid to indicate that preservation has been completed.

[a] Clean and dry the exterior of sample container.

[b] Check sample container for leakage and breakage.

[5] Return to Section 4.1, Step 11.

### 4.4 Quality Control Samples

Refer to the SCPL or the program specific SAP for the types and quantities of quality control samples and the locations where these samples will be collected.

#### *4.4.1 Field Blank Samples*

[1] Review the analysis requested on the SCPL or SAP.

[a] Ensure the sample container volume, type, and preservation type is correct for the analysis requested (e.g., 500 mL POLY, $HNO_3$).

[b] Note any deviation from the planned sample container volume or type on the SCPL.

**CAUTION**

**DO NOT** use tap, distilled, or drinking water purchased from a local store. These sources may not meet the water quality standards specified in the New Mexico Administrative Code (Title 20, Chapter 6, Part 4)**.**

[2] Obtain analyte free water (e.g., High Performance Liquid Chromatography grade ultrapure in amber glass sealed bottles) or water from the TA-59-0001 deionized water system in sufficient quantity to fulfill the analysis requested.

[3] Select another empty sample container(s) of the same type and volume for the analysis requested.

[4] Mark the bottle and container lids with the 3-digit outfall ID and “Field Blank”.

[5] Transport both the field blank bottle(s) and container(s) to the sampling location.

[6] During retrieval of samples, open the field blank bottle(s) and pour the analyte free water into the field blank sample container(s).

[7] Securely affix the lid(s) to the container(s).

[8] Replace the lid on the analyte free water bottle.

[a] IF 500 mL or greater remain in the bottle,
THEN replace lid and mark the bottle with the date it was opened and "For Decon Use Only".

[b] IF less than 500 mL remain in the bottle,
THEN dispose of water in the EPC-CP Stormwater Laboratory sink and dispose of the bottle.

[9] Return the field blank containers with retrieved samples to the EPC-CP Stormwater Laboratory (TA-59-0001) for any further required processing.

[10] Return to Section 4.1, Step 11 to complete sample processing.

### *4.4.2 Field Duplicate Samples*

[1] Review the analysis requested on the SCPL or SAP.

[a] Ensure the sample container volume, type, and preservation type is correct for the analysis requested (e.g., 500 mL POLY, $HNO_3$).

[b] Note any deviation from the planned sample container volume, type, or preservation on the SCPL.

[2] Field duplicate samples must be samples collected from the same location, at the same time, and in the same manner:

- Select two sample collection bottles next to each other in the automated sampler carousel.

OR

- Select one sample collection bottle to split into separate sample containers

[3] For split samples, follow these steps:

[a] Turn the sample collection bottle upside down multiple times to ensure sediment is loose from the bottom of the bottle.

[b] Pour sample into sample containers ensuring the sample remains homogenized throughout the transfer.

[4] Return to Section 4.1, Step 11 to complete sample processing.

## 4.5 Handling Excess Stormwater

Minimize the amount of stormwater sample brought into the EPC-CP Stormwater Laboratory. Field personnel will attempt to retrieve only the volumes needed to fulfill the requested analyses from the current MSGP SAP or program/project specific SAP.

**Sample Processor**

[1] IF any excess stormwater sample exists after processing has been completed, THEN

- Return to site of origin

OR

- Select one sample collection Form.

### 4.6 Submit Samples for Shipping to Offsite Analytical Laboratory

**Sample Processor**

[1] Ensure the sample containers are securely sealed and wiped dry.

[2] Compare the information from the SCPL and lid of each container and apply the correct labels to the sample containers. Refer to Attachment 2 for an example of sample container labels.

[3] Write the date and time the sample was collected on each label.

[4] IF the person who processed the sample is NOT submitting the samples to the SMO, THEN

[a] He/she will print and sign his/her name and the date/time samples are relinquished to the submitter in the second RELINQUISHED BY box.

[b] The submitter will print and sign his/her name and the date/time samples are received in the second RECEIVED BY box.

**EPC-CP technical staff**

[5] Transport samples from the EPC-CP Stormwater Laboratory (TA-59-0001) to the SMO (TA-59-0001).

[a] Deliver samples during SMO business hours by 2pm for same day shipping.

[b] Coordinate with the SMO for delivery during other times or for delivery of samples that have limited holding times.

[c] If delivery of samples to the SMO will be delayed, place sample containers with SCPL(s) in the EPC-CP Stormwater Laboratory refrigerator and ensure EPC-CP Stormwater Laboratory door is locked.

[6] Complete the SCPL form as follows:

[a] Ensure all fields are filled out with sample information or N/A. Do not leave blank fields.

[b] In the RELINQUISHED BY box, the person submitting the sample(s) will sign and print his/her name.

[7] [c] The SMO personnel accepts the sample(s) by signing and printing his/her name and recording the date/time in the RECEIVED BY box. Ensure the following steps are taken:

[a] SMO keeps the original SCPL(s) to accompany the samples.

[b] Keep a copy of the signed SCPL(s) for the MSGP Program.

[8] Deliver the copy of the signed SCPL(s) to the MSGP Data Manager.

**MSGP Data Manager**

[9] Process the sample information in the EIM system.

[a] Capture any documented deviations from planned conditions (as noted on the SCPLs).

## 5.0 TRAINING

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified in EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include "self-study" (required reading) for this procedure as assigned and documented in accordance with ADESH-TPP-301, *ADESH Training Program Plan*. Other participating LANL groups may require training documentation pursuant to local procedures.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete "self-study" (required reading) of this procedure. All training must be assigned and tracked using the Laboratory training management system, UTrain.

## 6.0 RECORDS

EPC-CP is the Office of Record for this document, that must be maintained in accordance with P1020-1, *Laboratory Records Management* and ESH-AP-006, *Records Management Plan*. Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management.

Below are records generated as a result of implementing this procedure identified by title and type.

| Record Title | QA Record | Non-QA Record |
|---|---|---|
| EPC-CP-QP-2106 R1 Form 1, *MSGP pH Probe Calibration Log* | ☒ | ☐ |
| *Water Sample Collection and Processing Log/Field Chain of Custody | ☒ | ☐ |
| Copy of logbook entry(s) (if a logbook is used) | ☒ | ☐ |
| Other pertinent field or lab notes (if additional notes are required) | ☒ | ☐ |

*The original document is part of the data package QA records for the SMO. MSGP retains a copy for tracking purposes only.

## 7.0 DEFINITIONS AND ACRONYMS

### 7.1 Definitions

See LANL *Definition of Terms*.

### 7.2 Acronyms

See LANL Acronym Master List.

| | |
|---|---|
| EIM | Environmental Information Management |
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs |
| FOD | Facility Operations Director |
| LANL | Los Alamos National Laboratory |
| µm | Micron |
| mL | Milliliter |
| MSGP | Multi-Sector General Permit |
| N/A | Not Applicable |
| NPDES | National Pollutant Discharge Elimination System |
| pH | Potential of Hydrogen |
| SAP | Sample Analysis Plan |
| SCPL | Water Sample Collection and Processing Log/Field Chain of Custody |
| SMO | Sample Management Office |

## 8.0 REFERENCES

Code of Federal Regulation Title 40 Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*

ESH-AP-006, *Records Management Plan*

P1020-1, *Laboratory Records Management*

P217, *Controlled Portable Electronics Devices*

New Mexico Administrative Code Title 20, Chapter 6, Part 4, *Standards for Interstate and Intrastate Surface Waters*.

US EPA Publication 9240.05A, EPA/540/R-93/051, *Specification and Guidance for Contaminant-Free Sample Containers*, December 1992

## 9.0 ATTACHMENTS

Attachment 1: EPC-CP-QP-2106 R1 Form 1, *MSGP pH Probe Calibration Log*

Attachment 2: Water Sample Collection and Processing Log/Field Chain of Custody Example

Attachment 3: Sample Container Labels Example

## Attachment 1: EPC-CP-QP-2106 R1 Form 1, MSGP pH Probe Calibration Log

(Page 1 of 1)

### MSGP pH Probe Calibration Log

(Method: SM 4500-H+ B-2011 and Instrument User Manual)

Date: _____ Time: _____ pH Probe #: _____

Location: _____ Analyst : _____

| Calibration Certified Buffers Used (units = S.U.) | pH Probe Stabilization Reading (S.U.)* |
|---|---|
| ☐ 4.00 Expiration Date: _____ | _____ |
| ☐ 7.00 Expiration Date: _____ | _____ |
| ☐ 10.00 Expiration Date: _____ | _____ |

*Reading must be within +/- 0.50 S.U. for valid calibration. If unachievable, explain:

Date: _____ Time: _____ pH Probe #: _____

Location: _____ Analyst : _____

| Calibration Certified Buffers Used (units = S.U.) | pH Probe Stabilization Reading (S.U.)* |
|---|---|
| ☐ 4.00 Expiration Date: _____ | _____ |
| ☐ 7.00 Expiration Date: _____ | _____ |
| ☐ 10.00 Expiration Date: _____ | _____ |

*Reading must be within +/- 0.50 S.U. for valid calibration. If unachievable, explain:

Date: _____ Time: _____ pH Probe #: _____

Location: _____ Analyst : _____

| Calibration Certified Buffers Used (units = S.U.) | pH Probe Stabilization Reading (S.U.)* |
|---|---|
| ☐ 4.00 Expiration Date: _____ | _____ |
| ☐ 7.00 Expiration Date: _____ | _____ |
| ☐ 10.00 Expiration Date: _____ | _____ |

*Reading must be within +/- 0.50 S.U. for valid calibration. If unachievable, explain:

EPC-CP-QP-2106 R1 Form 1

## Attachment 2: Water Sample Collection and Processing Log/Field Chain of Custody Example

(Page 1 of 1)

Los Alamos National Laboratory

### WATER SAMPLE COLLECTION AND PROCESSING LOG/FIELD CHAIN OF CUSTODY

**EVENT ID:** 11743 **EVENT NAME:** MSGP 2018

**SAMPLE ID:** MSGP-18-153015 **WORK ORDER:** MSGP-12345

**COLLECTION DATE/TIME:** 07/01/18 16:03 **RETRIEVAL DATE/TIME:** 07/03/18 09:25

**LOCATION ID:** MSGP04301 **SAMPLER TYPE:** APS-R

**LOCATION TYPE:** WCS **SAMPLE PREP:** UF

**LOCATION SYNONYM(S):** N/A **FIELD QC TYPE:** REG

**FIELD MATRIX:** WT **SAMPLE USAGE:** COMP

| PRIORITY | ORDER | CONTAINER | # | PRESERVATIVE | COLLECTED Y/N | SPECIAL INSTRUCTIONS | PROCESSING COMMENTS |
|---|---|---|---|---|---|---|---|
| N/A | MSGP-TSS | ~~500~~ 250 ML POLY JD 7/2/18 | 1 | ICE | X | N/A | N/A |

**SAMPLE COMMENTS:** N/A

**FIELD PARAMETERS:**

Sample Time N/A HH:MM pH 6.2 SU Visual Inspection Y SU

Visual Inspection WO# MSGP-67890

| | | | | | |
|---|---|---|---|---|---|
| COLLECTED BY (Printed Name) (Signature) | Jane Doe | Date/Time 07/03/18 09:25 | | | |
| RELINQUISHED BY (Printed Name) (Signature) | Jane Doe | Date/Time 07/03/18 10:05 | RECEIVED BY (Printed Name) (Signature) | John Smith | Date/Time 07/03/18 10:05 |
| PROCESSED BY (Printed Name) (Signature) | John Smith | Date/Time 07/03/18 13:00 | | | |
| RELINQUISHED BY (Printed Name) (Signature) | John Smith | Date/Time 07/04/18 08:35 | RECEIVED BY (Printed Name) (Signature) | See COC# 2017-1326 | Date/Time |
| RELINQUISHED BY (Printed Name) (Signature) | N/A | Date/Time | RECEIVED BY (Printed Name) (Signature) | N/A | Date/Time |

Report Date: 08/01/2018

EXAMPLE

## Attachment 3: Sample Container Labels Example

(Page 1 of 1)

EXAMPLE

| Los Alamos National Laboratory | |
|---|---|
| Sample ID: MSGP-17-131786 | |
| Container: 500 ML POLY | 1 of 1 |
| Preservative: HNO3 ICE | |
| Analysis: NPDES-Al-Total Recoverable | |
| Date/ | Time: |

| Los Alamos National Laboratory | |
|---|---|
| Sample ID: MSGP-17-131787 | |
| Container: 500 ML POLY | 1 of 1 |
| Preservative: HNO3 ICE | |
| Analysis: NPDES-Al-Total Recoverable | |
| Date/ | Time: |

## ATTACHMENT 21: EPC-DO-QP-0903, ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS

| EPC-CP-QP-0903 | Revision: 3 | Los Alamos NATIONAL LABORATORY |
|---|---|---|
| Effective Date: 12/18/2025 | Next Review Date: 12/18/2028 | |

**Environment, Safety, Health, and Quality Directorate**

**Environmental Protection and Compliance**

**Compliance Programs**

## Quality Procedure

# Environmental Reporting Requirements for Releases or Events

| | | | | |
|---|---|---|---|---|
| **Status:** | ☐ New | ☒ Major Revision | ☐ Minor Revision | |
| **Usage Level:** | ☒ Reference | ☐ UET | ☐ Mixed; UET Sections | |
| **Hazard Grading:** | ☐ N/A | ☒ Low | ☐ Moderate | ☐ High/Complex |
| **Safety Basis:** | ☒ N/A | ☐ USQ | ☐ USI #: | |
| **Training:** | ☐ N/A | ☐ Not in UTrain | ☒ UTrain #: | RR 61359 |

**Document Author/Subject Matter Expert**

| Name | Organization | Signature | Date |
|---|---|---|---|
| Steve Pearson | EPC-CP | Signature on File | 12/12/2025 |

**Derivative Classifier/Reviewer: ☒ Unclassified/Non-CUI ☐ CUI (see Marking Guidance)**

| Title: | Organization | Signature | Date |
|---|---|---|---|
| Steve Wolfel | EPC-CP | Signature on File | 12/15/2025 |

**Approval Signatures**

| Title: Group Leader | Organization | Signature | Date |
|---|---|---|---|
| Jessica Moseley | EPC-WMP | Signature on File | 12/18/2025 |
| Title: Group Leader | Organization | Signature | Date |
| Sarah Holcomb | EPC-CP | Signature on File | 12/18/2025 |

***Users are responsible for ensuring that they perform work to the latest approved version.***

**REVISION HISTORY**

| Document Number and Revision | Effective Date | Description of Changes |
|---|---|---|
| 0 | 02/09 | • New document |
| 1 | 4/10 | • Revision and update |
| ENV-DO-QP-101 R2 | 6/12 | • Biennial Review/Revision, new template implemented. |
| EPC-DO-QP-101 R3 | 08/07/17 | • Revision and update. This document replaces ENV-DO-QP-101 R2. New document number reflects organizational name change. |
| EPC-CP-QP-0903 R0 | 08/10/2021 | • This document replaces EPC-DO-QP-101, R3. This update includes updating appropriate sections to reflect regulations and organizational changes. Implements new EPC-CP template and document number. |
| EPC-CP-QP-0903 R1 | 03/09/2022 | • This update includes clarification regarding 20.6.2.1203 NMAC reporting and conditions necessary for reporting of unplanned releases of potable water and steam condensate (Section 4.5.3). This revision supersedes EPC-CP-QP-0903 R0. |
| EPC-CP-QP-0903 R2 | 03/04/2025 | • This update is to provide clarification on Contingency Plan implementation and notification requirements; initiated in response to LANL-C-2024-2824. Revision also updates contact phone numbers and emails. |
| EPC-CP-QP-0903 R3 | 12/18/2025 | • Develop Agile Checklist to support the update the item in UTrain to align with revision 2. |

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## 1.0 INTRODUCTION

This Environmental Protection and Compliance-Compliance Programs (EPC-CP) procedure describes how to determine if an unplanned release, spill, fire, or other event at Los Alamos National Laboratory (LANL, Laboratory) needs to be reported under environmental regulations and how to fulfill all immediate reporting requirements within the first 24 hours. Emergency and abnormal event notification requirements for reporting to LANL and U.S. Department of Energy (DOE) management are specified in PD1200, *Emergency Management Program*, and in P322-3, *Performance Improvement from Abnormal Events*. Environmental reporting requirements regarding releases or other events are included in this procedure.

### 1.1 Purpose

This procedure describes the actions that responsible persons, as identified throughout the procedure, must perform within the first 24 hours of the release. This procedure does not cover the response procedures for continuous releases under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Emergency Planning and Community Right-to-Know Act (EPCRA; see definitions) nor the follow-up notifications and reports.

### 1.2 Scope

This procedure describes the separate environmental pathway processes that determine if a release or event that occurs at LANL is reportable.

### 1.3 Applicability

This procedure applies to EPC-Division Office (EPC-DO) on-call representatives and subject matter experts (SMEs) who must respond to any release, spill, or event at LANL that could require immediate notification to local, state, or federal regulatory agencies.

## 2.0 PRECAUTIONS AND LIMITATIONS

The work described in this procedure includes fieldwork that does not require an integrated work document; has a **LOW hazard rating**; has been analyzed by an SME, the EPC-CP group leader, and the responsible line manager; and is consistent with LANL P300, *Integrated Work Management*.

Actions specified within this procedure, unless preceded with “should” or “may,” are to be considered mandatory (“will,” “must”).

## 3.0 PREREQUISITE ACTIONS

### 3.1 Planning and Coordination

Events covered by this procedure include detonation or burns of unstable material, leaking or compromised gas cylinders, puncturing of bulging containers, fires, explosions, chemical or radiological spills, wastewater spills, potable water discharges, and other unplanned releases.

On a quarterly basis, EPC-CP will prepare a list of individuals designated as on-call representatives and will designate the week each will be on call. EPC-CP will distribute this list to on-call representatives and Laboratory managers within the following organizations:

- Deputy Directorate for Operations (DDOPS);
- Associate Directorate for Environment, Safety, and Health, and Quality (ALDESHQ);
- Emergency Management-Operations Group (EM-OPS);
- Compliance Programs Group (EPC-CP);
- Environmental Stewardship Group (EPC-ES); and
- Waste Management Programs Group (EPC-WMP).

**NOTE**: The on-call list is posted on the LANL internal website Environmental Home page > Water > EPC On-Call Schedule (pdf). The on-call representative can be reached by pager at 505-664-7722.

To ensure that the required notifications for environmental reporting and abnormal events are being addressed for the Laboratory, on-call representatives might need to coordinate with other on-call SMEs and the EM-OPS incident response commander (IRC).

### 3.2 Performance Documents

The following documents are required to perform this procedure: EPC-CP-QP-1007, *Unplanned Releases*.

## 4.0 STEP-BY-STEP PROCESS DESCRIPTION

### 4.1 Reporting Releases to Pueblo Environment Departments

The DOE memorandum of agreement among the Los Alamos field offices of the National Nuclear Security Administration (NA-LA), the Office of Environmental Management (EM-LA), and the Pueblo de San Ildefonso strengthens the existing relationship among the parties as evidenced in the Restatement of 2005 Accord (MOA). It provides the foundation and framework for the parties to address and resolve specific issues of mutual concern. This MOA requires both DOE field offices (NA-LA and EM-LA) and their contractors to follow the protocols among the parties.

The Cooperative Agreements between the Pueblos of Cochiti, Jemez, and Santa Clara and LANL establish trust relationships with the Pueblos to resolve issues of mutual concern. To the extent funding is available and as otherwise agreed to in writing by Triad National Security, LLC (Triad) and the Pueblos, Triad will provide in-kind technical assistance to the Pueblos in the areas of economic development, education, cultural resources, the environment, and emergency preparedness and response.

If a release occurs impacting or could impact Pueblo lands, notification to the impacted Pueblo environment department will be coordinated through the Laboratory's Tribal Liaison (505-629-2198), who will notify the NA-LA intergovernmental specialist to notify the Pueblos pursuant to protocols. If the release is identified to be an emergency where activation of the Emergency Operations Center (EOC) is necessary, the LANL Emergency Response Organization will be

responsible for contacting the affected Pueblos in accordance with PD1200, *Emergency Management Program*.

The Laboratory's Tribal Liaison office maintains a list of Pueblo contacts.

### 4.2 Responsibility of On-Call Representatives

The EPC on-call representative is primarily responsible for the following:

- Responding to any notifications received through the spills/unplanned release pager
- Determining if the incident will require immediate notification to external agencies in accordance with LANL, state, and federal regulatory reporting requirements
- Notifying EPC Division management of immediate reporting requirements

If the release is a nonemergency and Pueblo lands are impacted, notification to the impacted Pueblo Environment Department will be coordinated through the Laboratory's Tribal Liaison (505-629-2198), who will notify the NA-LA intergovernmental specialist to notify the Pueblos and the Office of Environmental Management if necessary. The Laboratory's Tribal Liaison will be notified by EPC-CP.

The EOC or the EPC SME (not the EPC on-call representative) is responsible for making the following determinations:

- Whether the Resource Conservation and Recovery Act (RCRA) Contingency Plan must be implemented; the RCRA SME and EPC-WMP management will make notifications to the New Mexico Environment Department [NMED])
- Whether a shock-sensitive material or a leaking or compromised gas cylinder constitutes an emergency
- Whether the release is associated with an emergency for which activation of the EOC is necessary; if so, the EOC will contact the affected Pueblos in accordance with PD1200, *Emergency Management Program*.

To ensure that the appropriate expertise is available for the affected media, the EPC on-call representative will immediately confer with an SME of the EPC group that has programmatic responsibility. If an SME from the responsible group is able to respond to the event, the EPC on-call representative may pass the remaining steps in this procedure to that SME. See Environmental Protection and Waste Management Contacts.

**NOTE:** The applicable Pueblo environmental departments will implement notification processes in parallel with regulatory- or permit-driven reporting. If a conflict occurs between the two reporting needs, this process is second priority.

### 4.3 Follow-up Reporting

This procedure describes the initial external notifications (within the first 24 hours) to regulatory agencies. After completion of the steps in this procedure, the EPC group or team specifically responsible for compliance with the relevant regulations will complete the required notifications and reports, as applicable under the appropriate regulations, according to established procedures.

### 4.4 Summary of Policy Reporting

The EPC on-call representative and spill response SMEs have the authority and responsibility for deciding when to report an event and for making notifications to regulatory agencies within the applicable regulatory deadlines.

The EPC on-call representative and spill response SMEs must inform LANL management and NA-LA as soon as possible that they have made or will make a report, but management and NA-LA approval are not required before reporting to the regulatory agency. LANL facility operations director (FOD) management, with input from EPC SMEs, will determine if an Occurrence Reporting and Processing System (ORPS) report or other type of Lessons Learned will be necessary.

**NOTE:** The EOC maintains a current list of on-call LANL managers.

### 4.5 Using This Procedure

This procedure has five separate paths (that correspond to Sections 4.5.1 through 4.5.5) to follow for determining if a release or event is reportable. Follow each path to determine if one or more of the following regulations are applicable:

- Resource Conservation and Recovery Act (RCRA; Section 4.5.1)
- Toxic Substances Control Act (TSCA; Section 4.5.2)
- Clean Water Act (CWA), New Mexico Water Quality Act (NMWQA), and New Mexico Water Quality Control Commission (NMWQCC) Regulations (Section 4.5.3)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Emergency Planning and Community Right-to-Know Act (EPCRA; Section 4.5.4)
- Clean Air Act (CAA)
- Biological or Cultural Resources (Section 4.5.5)
  - National Environmental Policy Act
  - Endangered Species Act
  - Bald and Golden Eagle Protection Act
  - Migratory Bird Treaty Act
  - New Mexico Wildlife Conservation Act
  - National Historic Preservation Act
  - Native American Graves Protection and Repatriation Act
  - Archaeological Resources Protection Act

Each release needs to be evaluated for all potential reporting requirements. For example, a reportable quantity (RQ), defined under CERCLA or EPCRA, might not be met, **but the release could be reportable** under RCRA, NMWQCC, or CWA requirements.

**NOTE:** The 24-hour deadline (immediate in some cases) applies regardless of whether the release occurs during business hours, after business hours, or on non-business days.

### *4.5.1 Determining if a Release is Reportable under RCRA*

Using the flow chart in Attachment 1, Emergency Notification Requirements for RCRA, the EPC on-call representative will make the initial determination if a waste or potential waste has been spilled or released or if there has been a fire or explosion. If the initial determination is positive, the EPC on-call representative will contact the RCRA SME, EPC-WMP management, or EPC management.

Under the requirements of RCRA Permit No. NM0890010515-1 and Title 40 Code of Federal Regulations (CFR) 262.256, the RCRA SME and EPC-WMP management, in consultation with EPC management, will determine if the RCRA Contingency Plan provisions have been implemented. The RCRA SME or EPC-WMP management will perform notification to NMED both verbally and in writing as appropriate.

The RCRA SME or EPC-WMP management will contact the EOC manager (IRC) if Contingency Plan implementation notifications were made to the NMED.

If a release or event is reportable under RCRA rules, determine if the release or event is reportable under other rules, and proceed to Section 4.5.6, Reporting a Release or Event.

### *4.5.2 Determining if a Release is Reportable under TSCA*

In practice, only spills of polychlorinated biphenyls (PCBs) or PCB-suspect untested mineral oil to the environment (generally outdoors or with the potential to reach the outdoors) are reportable. Spills that are contained indoors are generally not reported.

A discharge of PCBs is reportable to the U.S. Environmental Protection Agency (EPA) under TSCA if 1 pound (or more) of PCBs by weight is released in accordance with 40 CFR 761.125(a)(1), Requirements for PCB Spill Cleanup. Notify the EPA regional office, and proceed with the immediate clean-up requirements noted in 40 CFR 761.125(a)(1) in the shortest possible time after discovery but in no case later than 24 hours after discovery. Additionally, reporting requirements are triggered if more than 270 gallons of untested mineral oil suspected of containing PCBs has been spilled.

Follow the steps in Section 4.5.4, Determining if a Release is Reportable under CERCLA or EPCRA, to determine if the RQ for PCBs has also been exceeded.

All known PCB equipment at the Laboratory has been taken out of service and disposed of in accordance with TSCA regulations.

If a release is reportable under TSCA, continue through the next sections to determine if the release or event is reportable under other rules. Then proceed to 4.5.6, Reporting a Release or Event, and determine if additional reporting is necessary.

| If the spill is . . . | then . . . |
|---|---|
| equal to or greater than 1 pound by weight of PCBs (TSCA) or greater than 270 gallons of untested mineral oil suspected of containing PCBs, | report to the National Response Center (800-242-8802) immediately (within 15 minutes of discovery). Additionally, contact EPA Region 6 (Office of Prevention, Pesticides, and Toxic Substances) through EPA's 24-hour spill response number 866-372-7745 as soon as possible after discovery but no later than 24 hours after discovery. |

### *4.5.3 Determining if a Release is Reportable under the CWA, NMWQA, and NMWQCC*

20.6.2.1203 New Mexico Administrative Code (NMAC) Reporting

The NMWQA does not use reportable quantities (as described in section 4.5.4). Instead, the NMWQCC regulations state, "With respect to any discharge from any facility of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, notifications (to the New Mexico Environment Department (NMED)) and corrective actions are required."

This rule requires the use of professional judgment to determine the magnitude and extent of the release and ultimately whether external reporting is required. Although no quantifiable metric is available to assist in making this determination, in general, complete external reporting if any of the following three conditions are met:

- More than 10 gallons of oil, fuel, hydraulic fluid, etc., is released
- If any volume of contaminants (oils, fuel, hydraulic fluid, concrete washout, antifreeze, paint, etc.) reaches a watercourse
- If the release adversely impacts, for example, a solid waste management unit (SWMU) or area of concern (AOC) and requires excavation or causes erosion

The EPC on-call representative or SME has the authority and responsibility to make this determination.

Additionally, unplanned releases of potable water, steam condensate, or sewer release require reporting pursuant to 20.6.2.1203 NMAC as directed in Attachment 2, dated February 2025 (EPC-DO-25-066; LA-UR-25-2142).

Consult with the Triad EPC-WMP Consent Order Site coordinator to confirm the location and to determine if potential impacts exist to SWMUs or AOCs from any releases that could occur.

Groundwater Discharge Permit Reporting

The Laboratory has three active groundwater discharge permits (DPs) that include notification and reporting requirements if an unpermitted discharge occurs. Spills associated with any of the groundwater DPs require reporting to NMED pursuant to 20.6.2.1203 NMAC.

| Groundwater Discharge Permit | Permit Condition No. | Description |
|---|---|---|
| DP-857: Covering Sanitary Waste Water System (SWWS) Plant, Sanitary Effluent Reclamation Facility (SERF), and Sigma Mesa Evaporation Basins | 53 | The unauthorized release of untreated and treated sanitary wastewater, reuse wastewater, blended wastewater, and reject wastewater over 1,000 gallons (Attachment 2) would be subject to reporting under Condition No. 53. |
| DP-1589: Septic Tank/Disposal Systems | 23 | The unauthorized release of untreated wastewater, septage, treated wastewater surfacing from failing disposal systems (leach fields), and treated wastewater surfacing from overflowing septic tanks over 1,000 gallons (Attachment 2) would be subject to reporting under Condition No. 23. |
| DP 1132: Radioactive Liquid Waste Treatment Facility (RLWTF) | 38 | In the event of a release unauthorized in this Discharge Permit of **any volume**, the Permittees shall take measures to mitigate damage from the unauthorized discharge and initiate the notification and corrective actions required in 20.6.2.1203 NMAC under Condition No. 38. |

Clean Water Act Reporting

Oil discharges (film/sheen/discoloration) to water in stream channels must also be reported to the National Response Center (NRC) immediately (within 15 minutes of discovery) pursuant to 40 CFR 110.6, Notice.

National Pollutant Discharge Elimination System (NPDES) Outfall Reporting

To meet applicable reporting requirements (24-hour and 5-day written), upon discovery, the EPC-DO on-call SME must provide notification to the NPDES Outfall Permit program lead or the EPC-CP Water Quality team leader (or both) in the event of a leak, unplanned release, overflow, or bypass of treatment from an NPDES-permitted outfall or the source(s). Outfall sources include the following:

- SWWS equipment, tanks, lift stations, septic tanks, and piping
- SERF equipment, tanks, lift stations, and piping
- RLWTF equipment, tanks, lift stations, and piping
- High Explosives Waste Treatment Facility equipment, tanks, and piping
- Cooling towers
- Storage tanks (influent, effluent, reuse tank)
- Other water treatment equipment and piping

Reporting Requirements for Petroleum Storage Tanks

As defined in 20.5.118 NMAC, *Environmental Protection, Petroleum Storage Tanks - Reporting Investigations of Suspected and Confirmed Releases*, the NMED requires verbal reporting to the NMED Petroleum Storage Tank Bureau (PSTB) within 24 hours of a petroleum product release from regulated tanks when there is

- any suspected or confirmed release of regulated substances,
- evidence of release of regulated substances,
- unusual operational conditions (that would cause concern about a release), or
- monitoring results that show loss from the system.

Regulated tanks include those with a capacity of 1,320–55,000 gallons. Regulated substances for aboveground storage tanks (AST) include petroleum and petroleum-based substances that comprise a complex blend of hydrocarbons derived from crude oil through processes of separation, conversion, upgrading, and finishing, such as motor fuels (including ethanol-based motor fuels), jet fuels, distillate fuel oils, residual fuel oils, lubricants, petroleum solvents, and used oils.

Notice of any suspected or confirmed release from a storage tank system must be completed within 24 hours. Contact the EPC-CP AST program leader, the EPC-CP Water Quality team leader (or both) before completing any external notifications. The PSTB can be reached at 505-476-4397 (Santa Fe PSTB District 2) during business hours and at 505-827-9329 (NMED Emergency Spill Hotline) during non-business hours. Contact the NRC at 800-424-8802 immediately if oil or a sheen of oil from a spill or release is discovered in a watercourse. A written report describing the spill, release, or suspected release and any investigation or follow-up action must be submitted to the PSTB within 7 days of the incident.

If a facility discharges more than 1,000 gallons of oil in a single discharge or discharges more than 42 gallons of oil in each of two discharges, as described in 40 CFR 112.1(b) and occurring within any 12-month period, in accordance with 40 CFR 112.4, the facility must submit a report to the EPA regional administrator within 60 days of the discharge.

Reporting Requirements under the NPDES Pesticide General Permit

Adverse incidents require reporting to the EPA under the NPDES pesticide general permit. An adverse incident is defined as an unusual or unexpected incident that resulted from pesticide applications that an operator has observed upon inspection or of which the operator otherwise becomes aware, in that

- there is evidence that a person or non-target organism has likely been exposed to a pesticide residue, and
- the person or non-target organism suffered a toxic or adverse effect.
  - The phrase *toxic or adverse effect* includes effects that occur within waters of the United States on non-target plants, fish, or wildlife that are unusual or unexpected (such as effects to organisms not otherwise described on the pesticide product label or otherwise not expected to be present) because of exposure to a pesticide residue, and could include

- distressed or dead juvenile and small fishes;
- washed up or floating fish;
- fish swimming abnormally or erratically;
- fish lying lethargically at water surface or in shallow water;
- fish that are listless or nonresponsive to disturbance;
- stunting, wilting, or desiccation of non-target submerged or emergent aquatic plants; or
- other dead or visibly distressed non-target aquatic organisms (amphibians, turtles, invertebrates, etc.).

The phrase *toxic or adverse effects* also includes any adverse effects to humans (e.g., skin rashes) or domesticated animals that occur either from direct contact with or as a secondary effect from a discharge (such as sickness from consumption of plants or animals that contain pesticides) to waters of the United States that are temporally and spatially related to exposure to a pesticide residue (such as vomiting, lethargy).

If an operator observes or otherwise becomes aware of an adverse incident caused by pesticide application, the operator must notify the EPA incident reporting contact within 24 hours of the operator becoming aware of the adverse incident. EPA incident reporting contacts are listed at https://www.epa.gov/npdes/pesticide-permitting.

If an operator becomes aware of an adverse incident that affects a federally listed threatened or endangered species or its federally designated critical habitat that could have resulted from a discharge from the operator's pesticide application, the operator must immediately (within 15 minutes of discovery) notify the U.S. Fish and Wildlife Service. This notification must be made by phone to the contact listed on the EPA's website (https://www.epa.gov/npdes/pesticide-permitting).

### *4.5.4 Determining if a Release is Reportable under CERCLA or EPCRA*

Under CERCLA or EPCRA, the RQ is the threshold that requires immediate regulatory notification of a release. An RQ is based on the quantity of chemical released within any 24-hour period. See https://www.energy.gov/ehss/services/environment/environmental-policy-and-assistance/reportable-quantity-calculator for information about the RQ program as implemented by DOE.

1. In the event of a release, determine the quantity released in pounds or kilograms for hazardous substances or in curies for a release of radioactive material.
2. Compare the released value with the RQ threshold.
3. CERCLA RQs of hazardous substances are listed in 40 CFR 302.4, *Designation of Hazardous Substances*. Hazardous substances and their RQs are listed in Table 302.4, and radionuclides are listed in 40 CFR 302.4, Appendix B. The DOE also has approved use of an online reportable quantity calculator that can be used to assist in this determination: https://rqcalculator.projectenhancement.com/
4. If a hazardous material is not listed in the statute, the RQ has been set by Congress to be 100 pounds. For radionuclides, the RQ is 1 curie for radionuclides not otherwise listed.
5. For mixtures of hazardous materials, radionuclides (or both), or when the hazardous material table and radionuclide table are in conflict, the lowest RQ will apply.

6. If an RQ is met or exceeded, make an immediate (within 15 minutes of discovery) notification to the NRC (800-424-8802) pursuant to 40 CFR 302.6, *Notification of Requirements*.
7. If a release of an airborne radionuclide exceeds an RQ listed in Appendix B to 40 CFR 302.4, verbally notify the EPA Region 6 health physicist after completing the NRC notifications. The EPA Region 6 health physicist can be reached at 214-665-8541 (office); 214-755-1530 (mobile); and 972-937-1900 (home).
8. The EPC-CP Radioactive Air Emissions Management team leader can assist with determining RQs and releases for radioactive material releases and with notifying EPA Region 6. If an RQ is not exceeded, notify the appropriate media SME for any required follow-up notification and documentation with the appropriate regulatory agency.
9. Additional notifications under EPCRA must be made if a release of a hazardous or extremely hazardous substance listed in 40 CFR 355 Appendix A and Appendix B occurs.
10. If an extremely hazardous substance is not listed in the statute, the RQ has been set by Congress to be 1 pound.
11. If the released quantity meets or exceeds the RQ established under EPCRA, in addition to notifying the NRC (Step 2.d.), an immediate (within 15 minutes of discovery) notification must be made to the Local Emergency Planning Committee (LEPC) community emergency coordinator (505-662-8283) and to the State Emergency Response Commission (SERC (505-476-9635); see Attachment 3, Summary of Emergency Release or Event Reporting Requirements, for contact information).

The lists of CERCLA hazardous substances and EPCRA extremely hazardous substances are two separate lists that include multiple common substances; however, not all extremely hazardous substances are listed hazardous substances. In some instances, a release of an extremely hazardous substance (EHS) might be reportable under EPCRA but not reportable under CERCLA.

Releases that occur within a closed space with no emissions to the ambient environment are exempt from CERCLA and EPCRA reporting requirements.

**NOTE:** Response procedures for continuous releases are not covered in this procedure.

Regulatory Classification of the Released Material

The on-call EPC SME will determine the regulatory classification of the substance released regarding hazard classifications:

- Extremely Hazardous Substance (EHS)
- Hazardous Substance (HS)

Often during an emergency, complete information will not be available regarding type and amount of material released. In this case, use best professional judgment to establish the level of confidence associated with the estimates. If the uncertainty is high enough that future estimates could require reporting, it is best to be conservative and report the release following the reporting requirements detailed in Section 4.5.6, Reporting a Release or Event.

After determining the RQ of a released material, the EPC on-call representative or SME will perform the following steps to determine if an RQ has been exceeded.

1. Obtain an estimate of the quantity and type of material released (such as 4 pounds of chlorine gas or 150 curies of tritium).
2. Compare this quantity against the RQs provided in 40 CFR 302.4, Table 302.4, and 40 CFR 355 Appendix A and Appendix B.
3. If the release is an airborne release of radioactive materials that meets or exceeds the RQ, immediate (within 15 minutes of discovery) reporting to the NRC and the EPA Region 6 regional health physicist is required. For radioactive materials, the RQ is provided in activity units (curies or becquerels). Also, some materials have an RQ value for both chemical exposure (Table 302.4) and for radiological exposure (40 CFR 302.4, Appendix B). In these cases, the RQ for the smallest amount of material will apply.
4. For all radioactive material releases, a radiological dose assessment must also be performed within 24 hours of the release. This dose assessment should be made by an environmental health physicist in EPC-CP or EPC-ES. The on-call individual should contact an EPC health physicist for this evaluation.

Immediate Evaluation – RQ Comparison (of a Radioactive Material Release)

1. If the release is equal to or greater than the RQ, then proceed to Section 4.5.6, Reporting a Release or Event.
2. If the release is less than the RQ, then no immediate reporting is required. Contact an EPC-CP or EPC-ES environmental health physicist to complete follow-up dose assessment.
3. If the release is nonradioactive material, it is reportable if the RQ is exceeded. If the amount released is equal to or greater than the RQ, then proceed to Section 4.5.6, Reporting a Release or Event.
4. Continue to re-evaluate the release as new data become available. Perform Steps 1 through 4 as necessary.

### *4.5.5 Determining Release Impacts to Biological or Cultural Resources*

Laws and regulations regarding the protection of biological and cultural resources apply to the Laboratory, including

- National Environmental Policy Act
- Endangered Species Act
- Bald and Golden Eagle Protection Act
- Migratory Bird Treaty Act
- New Mexico Wildlife Conservation Act
- National Historic Preservation Act
- Native American Graves Protection and Repatriation Act
- Archaeological Resources Protection Act

The EPC-CP SME is responsible for contacting a biological resources SME and a cultural resources SME within 1 business day from when a release or event occurs. This requirement allows biological and cultural resources staff to report to their regulators within the required timeframe, identify whether additional requirements are necessary for clean-up activities, and

complete any other associated compliance regulations. The cultural resources SME will identify any impacts caused by the release or event to archaeological sites or historic buildings or structures.

Additionally, if a release of contaminants occurs to a wetland or impacts the beneficial values of a wetland, the EPC on-call representative will coordinate with other EPC SMEs for applicable federal and state notifications and required actions as outlined in Section 4.5.3, Determining if a Release is Reportable under the CWA, NMWQA, and NMWQCC.

Contact a Biological Resources SME or a Cultural Resources SME at notifyEPC@lanl.gov.

### *4.5.6 Reporting a Release or Event*

If a release or event is reportable (as determined by one or more of the previous sections), the Laboratory is required to meet certain reporting requirements. The emergency notification requirements must be followed upon determination that a release or event is reportable.

Attachment 3, Summary of Emergency Release or Event Reporting Requirements, summarizes the primary statutes and the associated reporting requirements.

Any release to the environment that has been determined to be reportable by the EPC on-call representative or SME will be reported through the LANL management chain in accordance with PD1200, *Emergency Management Program,* and P322-3, *Performance Improvement from Abnormal Events*.

Notify Triad management and DOE if a release notification to state or federal regulatory agencies is required. To ensure that the deadline for reporting is not exceeded, management approval is not required before completing environmental notifications to the regulatory agencies.

Perform the following steps immediately after establishing that reporting is required.

1. Compile release information, including
    - source, cause, type, and quantity of the release;
    - time and duration of the release;
    - extent of any protective and corrective actions taken;
    - name, address, and telephone number of the person to contact for further information;
    - whether the substance is an HS or EHS;
    - associated health risks and medical attention necessary for exposed individuals;
    - if available, information about the release of any contaminants or hazardous or mixed waste that could endanger public or private drinking water supplies;
    - assessment health risks and medical attention necessary for exposed individuals;
    - if available, estimated quantity and disposition of recovered material that resulted from the incident;
    - precautions to take, including—in the case of fire—those associated with special hazards due to the release of contaminants or hazardous or mixed waste;

- any other information that could help emergency personnel who respond to the incident; and
- environmental media impacted from the release.

2. Notify LANL management, the Laboratory Tribal Liaison, and the respective FOD.

**NOTE:** To ensure that the deadline for reporting is not exceeded, management approval is not required before completing environmental notifications to regulatory agencies.

3. Provide notification to the regulatory agency as required by the applicable regulation(s) detailed in Sections 4.5.1 through 4.5.4. Reference Attachment 3 for a summary of the applicable reporting requirements.
4. Notify programmatic SMEs who could be impacted or required to complete follow-up reporting.

### *4.5.7 Steps to Notify LANL Management, the Laboratory Tribal Liaison, and NA-LA*

The EPC on-call representative will complete the following steps to provide notification to LANL Management and the Laboratory Tribal Liaison.

1. Determine that a release to the environment is reportable to state or federal entities as required under applicable regulations.

**NOTE:** Reporting through ORPS is a FOD and responsible associate director responsibility; commonly they will seek advisement from EPC SMEs.

2. Provide notification to the EPC-CP Water Quality team leader, the EPC-CP group leader, and the EPC division leader of the release and the required external notifications.
3. Provide notification to the Laboratory Tribal Liaison (if the release or event impacts or could impact Pueblo lands) of the release and the required external notifications. Notification to the impacted Pueblo environment department will be coordinated through the Laboratory's Tribal Liaison (505-629-2198), who will notify the NA-LA intergovernmental specialist to notify the Pueblos pursuant to protocols.
4. Complete environmental reporting to state and federal agencies in accordance with all applicable regulations.
5. Notify the appropriate program SME who could be impacted or required to complete follow-up release reporting.

After the above notifications have been made or when requested, the EPC on-call representative or SME will hand off responsibility for additional actions and follow-up to the affected environmental group. (The responsible group will depend on the type and location of the release and the governing regulations or statutes.)

To communicate events at LANL that could impact the public or the environment, EPC staff may provide a courtesy notification to NMED of events that might not require formal regulatory notification. A past example of such event is small wildland fires.

## 5.0 TRAINING

All EPC-CP personnel who execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified in EPC-CP-PIP-1001, *Water Quality Control Commission (WQCC) Program Implementation Plan*. This training will include self-study (required reading) for this procedure as assigned and documented in accordance with the latest EPC Training Program Plan, EPC-DO-TPP-01.

Annual retraining to this procedure is required.

## 6.0 RECORDS

Records generated by this document will be submitted to ESHQ Document Control and Records Management at eshq-dcrm@lanl.gov. These records will be uploaded into the Electronic Document and Records Management System (EDRMS) using the records submission process outlined in and in compliance with ESHQ-AP-006, *Records Management Procedure*.

## 7.0 DEFINITIONS AND ACRONYMS

### 7.1 Definitions

| Term | Definition |
|---|---|
| Continuous Release | A release is continuous if it "occurs without interruption or abatement or if it is routine, anticipated, intermittent, and incidental to normal operations or treatment processes." The release must also be "stable in quantity and rate," which means that it must be predictable and regular in the amount and rate of emission. The response procedures for continuous releases are not covered by this document. See guidance in Reporting Continuous Releases of Hazardous and Extremely Hazardous Substances under CERCLA and EPCRA. |
| Environment | Includes "water, air, land, and the interrelationship that exists among and between water, air, land, and all living things." (40 CFR 355.20). |
| Extremely Hazardous Substances (EHS) | EPCRA establishes emergency reporting requirements for extremely hazardous substances in 40 CFR 355, Appendix A. All of these substances are also CWA and CERCLA "hazardous" substances. |
| Hazardous Substances (HS) | These substances are summarized in 40 CFR 302. As used in this context, HS refers to<br>• any elements, compounds, mixtures, solutions, or substances specially designated by EPA under Section 311 of the CWA; 40 CFR 116.4);<br>• any toxic pollutants listed under Section 307(a) of the CWA;<br>• any hazardous substances regulated under Section 311 (b)(2)(A) of the CWA;<br>• any listed or characteristic RCRA hazardous waste (40 CFR 261),<br>• any hazardous air pollutants listed under Section 112 of the CAA; or<br>• any imminently hazardous chemical substances or mixtures regulated under Section 7 of the TSCA. |

| | |
|---|---|
| Release | Any unpermitted spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of contaminants into the environment, excluding<br>• emissions from the engine exhaust of any vehicle,<br>• certain releases of source, byproduct, or special nuclear material from a nuclear incident, or<br>• normal application of fertilizer. |

## 7.2 Acronyms

See Phonebook+ for organizations not listed.

| Acronym | Definition |
|---|---|
| AOC | area of concern |
| AQB | Air Quality Bureau |
| AST | aboveground storage tank |
| CAA | Clean Air Act |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CFR | Code of Federal Regulations |
| CWA | Clean Water Act |
| DOE | U.S. Department of Energy |
| DP | discharge permit |
| EHS | extremely hazardous substance |
| EM-LA | Environmental Management Los Alamos (Office, DOE Environmental Management) |
| EOC | Emergency Operations Center |
| EPA | (U.S.) Environmental Protection Agency |
| EPCRA | Emergency Planning and Community Right-to-Know-Act |
| FOD | facility operations director |
| HS | hazardous substance |
| IRC | incident response commander |
| LANL, Laboratory | Los Alamos National Laboratory |
| LEPC | Local Emergency Planning Committee |
| MOA | Restatement of 2005 Accord |
| NA-LA | Los Alamos Field Office |
| NMAC | New Mexico Administrative Code |
| NMED | New Mexico Environment Department |
| NMWQA | New Mexico Water Quality Act |
| NMWQCC | New Mexico Water Quality Control Commission |
| NPDES | National Pollutant Discharge Elimination System |

| Acronym | Definition |
|---|---|
| NRC | National Response Center |
| ORPS | Occurrence Reporting and Processing System |
| PCB | polychlorinated biphenyl |
| PSTB | Petroleum Storage Tank Bureau |
| RCRA | Resource Conservation and Recovery Act |
| RQ | reportable quantity |
| SERC | State Emergency Response Commission |
| SERF | Sanitary Effluent Reclamation Facility |
| SME | subject matter expert |
| SWMU | solid waste management unit |
| SWWS | Sanitary Waste Water System |
| TSCA | Toxic Substances Control Act |

## 8.0 REFERENCES

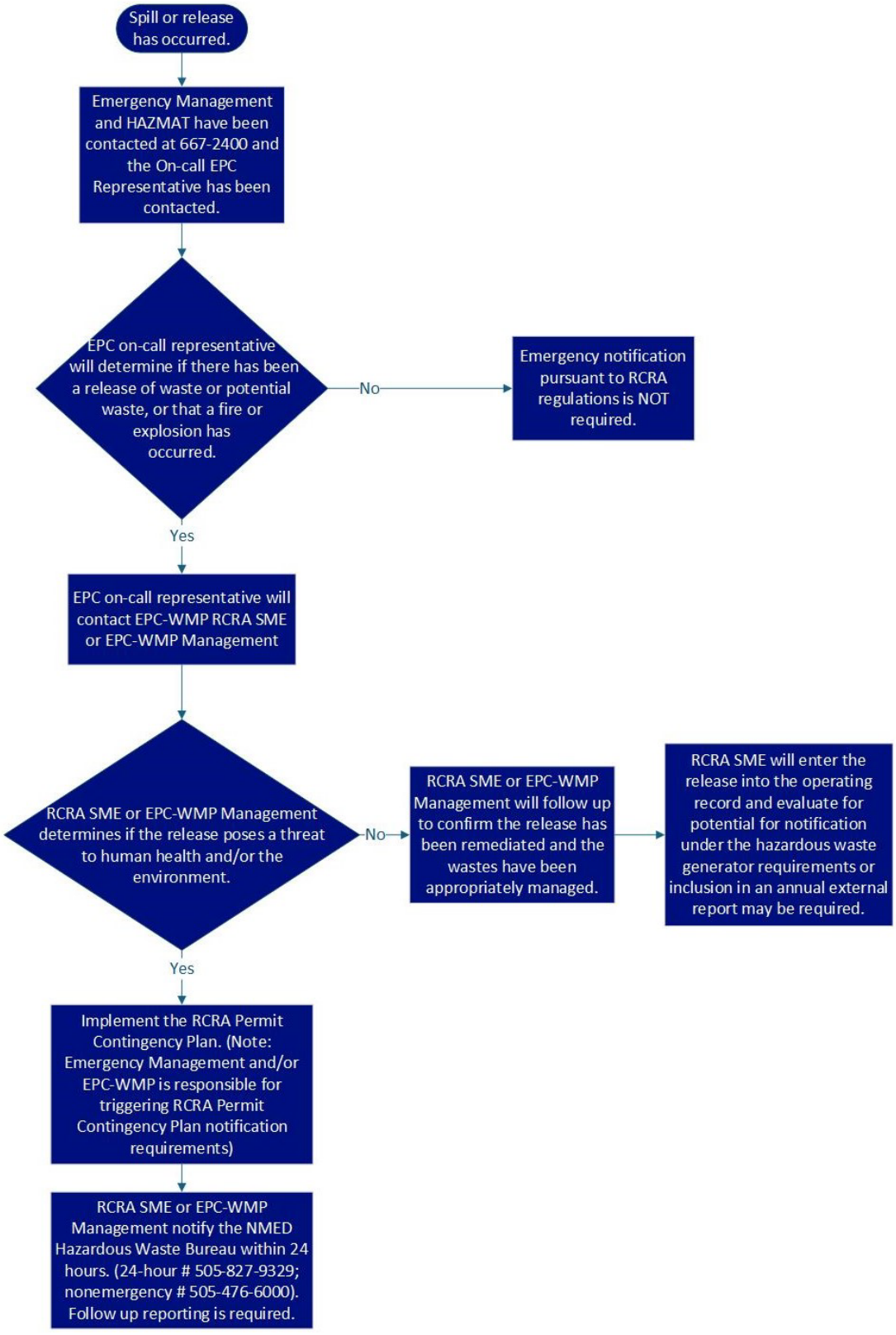
- 40 CFR 110.6, Notice
- 40 CFR 302.4, Designation of Hazardous Substances
- 40 CFR 302.6, Notification Requirements
- 40 CFR 761.125(a)(1), Requirements for PCB Spill Cleanup
- 40 CFR 261, Identification and Listing of Hazardous Waste
- 40 CFR 262, Subpart M, Preparedness, Prevention, and Emergency Procedures for Large Quantity Generators
- 40 CFR 302, Designation, Reportable Quantities, and Notification
- 40 CFR 355, Emergency Planning and Notification
- Federal Register, Volume 67, No. 47, Notices FRL-7172-4, Guidance on the CERCLA Section 101(10)H Federally Permitted Release Definition for Certain Air Emissions
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- LANL NPDES Permit No. NM0028355
- LANL RCRA Permit No. NM0890010515-1
- New Mexico Administrative Code 20.5.7
- NMED Groundwater Discharge Permit DP-1132
- NMED Groundwater Discharge Permit DP-1589
- NMED Groundwater Discharge Permit DP-857
- P1020-1, *Laboratory Records Management*
- P300, *Integrated Work Management*
- P322-3, *Performance Improvement from Abnormal Events*
- PD1200, *Emergency Management Program*

- PD781, *Training Program Management*
- Reporting and Investigations of Suspected and Confirmed Releases, New Mexico Environmental Improvement Board, 20.5.118 NMAC (07/24/2018).
- U.S. Department of Energy, Office of Environmental Guidance, CERCLA Information Brief, EH-231-001/0490 (April 1990)
- U.S. EPA, National Response Center (NRC) website: https://www.epa.gov/emergency-response/national-response-center

## 9.0 ATTACHMENTS

- Attachment 1: Emergency Notification Requirements for RCRA
- Attachment 2: Discharge Reporting Decision Tree
- Attachment 3: Summary of Emergency Release or Event Reporting Requirements

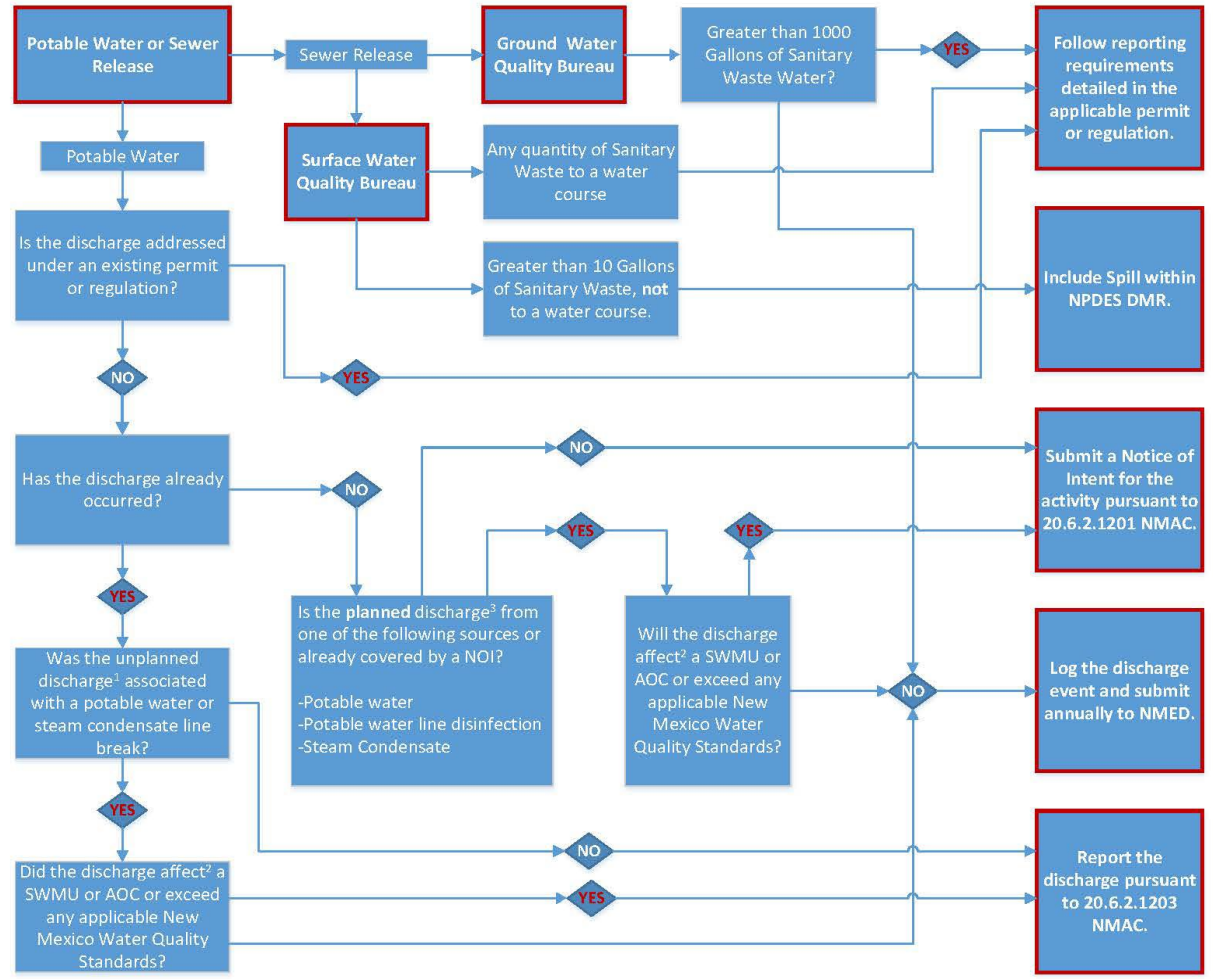
## ATTACHMENT 1 – EMERGENCY NOTIFICATION REQUIREMENTS FOR RCRA



## ATTACHMENT 2 – DISCHARGE REPORTING DECISION TREE*

# Los Alamos National Laboratory - Discharge Reporting Decision Tree*

10/24/2024 (Revised February 2025)




*Disclaimer: This guidance has been developed for informational purposes only. This does not relieve Los Alamos National Laboratory or its affiliates of their obligation to comply with all applicable federal, state, and local laws, regulations, permits or orders.

1: Unplanned releases must be evaluated to see if the rate and duration of the release caused erosion or affected a SWMU,AOC, or with reasonable probability injured or was found to be detrimental to human health, animal or plant life, or property, or unreasonably interfered with the public welfare or the use of property.

2: "Affect" means:
- A discharge that results in potential leaching or erosion of contaminated material off of the known or suspected boundary of a Solid Waste Management Unit (SWMU) or Area of Concern (AOC).
- A discharge that damages sediment or erosion controls or other Best Management Practices used to control pollutants or have the potential to result in pollutant concentrations in groundwater or surface water in excess of applicable regulations, standards or screening levels.

3: Planned discharges must be conducted in a manner where the discharge rate is controlled and does not cause erosion. Planned discharges must meet all applicable New Mexico Surface Water and Ground Quality Standards.

EPC-DO: 25-066 LA-UR-25-21423

## ATTACHMENT 3 – SUMMARY OF EMERGENCY RELEASE OR EVENT REPORTING REQUIREMENTS

**Page 1 of 3**

**NOTE**: This table is only a guide and does not cover all federal, state, or permit reporting requirements. Refer to the Code of Federal Regulations and the RCRA Permit for more details regarding these regulations.

| Statute | Regulations | Incident | Immediate Reporting Requirements | Follow-Up Reporting Requirements |
|---|---|---|---|---|
| Clean Water Act | 40 CFR 110.6 | Oil discharge (film, sheen, or discoloration) to water surface or shoreline or violation of water quality standards | Immediately (within 15 minutes of discovery) notify the National Response Center: 800-424-8802. | Follow-up is not required. |
| Clean Water Act | Part III of NPDES Permit No. NM0028355 | Leak or unplanned release from an NPDES permitted outfall | Notify the NPDES Outfall Permit program lead and EPC-CP Water Quality team leader upon discovery. The program lead or the EPC-CP Water Quality team leader will complete initial reporting requirements as required. | The NPDES Outfall Permit program lead and EPC-CP Water Quality team leader will complete the required follow-up reporting. |
| Clean Water Act NPDES Pesticide General Permit | 40 CFR 122.28 | Adverse incident that includes evidence that a person or non-target organism has been exposed to a pesticide residue or the person or non-target organism suffered a toxic or adverse effect | Notify the EPA Region 6 Pesticide Permitting contact (214-665-7500) within 24 hours. | Submit a 30-day adverse incident written report to the EPA Regional Office. |
| New Mexico Water Quality Control Commission Regulations | 20.6.2 1203 NMAC | Discharge from any facility of oil or other water contaminant in such quantity as may, with reasonable probability, injure or be detrimental to human health or animal or plant life or property or unreasonably interfere with the public welfare or use of the property | Notify the New Mexico Environment Department (505-827-9329) within 24 hours. | Submit 7- and 15-day written follow-up corrective action reports (copy to EPA Region 6). |
| New Mexico Water Quality Control Commission Regulations | 20.6.2 3104 NMAC | Unplanned release of any volume from an activity or facility covered under an active Groundwater DP:<br>• DP-857: SWWS Plant, SERF, and Sigma Mesa Evaporation Basins<br>• DP-1589: Septic Tank/Disposal Systems<br>• DP-1132 Radioactive Liquid Waste Treatment Facility | Notify the New Mexico Environment Department (505-827-9329) within 24 hours. | Submit 7- and 15-day written follow-up corrective action reports (copy to EPA Region 6). |

| Statute | Regulations | Incident | Immediate Reporting Requirements | Follow-Up Reporting Requirements |
|---|---|---|---|---|
| New Mexico Petroleum Storage Tank Bureau Regulations | 20.5.118 NMAC | A release of a petroleum product from a regulated aboveground storage tank in which the release exceeds 25 gallons, that causes a sheen on nearby surface water, or that creates a vapor hazard pursuant to 20.5.119.1902 NMAC | Contact the EPC-CP AST program lead and/or the EPC-CP Water Quality team leader before completing any external notifications. If required, also contact the PSTB (505-476-4397) or the NMED Emergency Spill Hotline (505-827-9329) within 24 hours. | A written report that describes the spill, release or suspected release and any investigation or follow-up action must be submitted to the PSTB within 7 days of the incident. |
| Federal Spill Prevention, Control, and Countermeasure Requirements | 40 CFR 112.4 | A discharge of more than 1,000 gallons of oil or more than 42 gallons of oil in a 12-month period | Contact the EPC-CP AST program lead and/or the EPC-CP Water Quality team leader before completing any external notifications. | A written report that describes the cause of the release or discharge of oil, corrective actions, and measures to prevent recurrence must be submitted to the EPA regional administrator within 60 days. |
| Comprehensive Environmental, Response, Compensation, and Liability Act (CERCLA) | 40 CFR 302.6(a) | Hazardous substance (listed in 40 CFR Table 302.4) release (equal to or greater than an RQ) | Immediately (within 15 minutes of discovery) notify the National Response Center (800-424-8802). | Follow-up is not required. |
| Emergency Planning and Community Right- to-Know Act (EPCRA) | 40 CFR 355.40 | Release of an extremely hazardous substance (listed in 40 CFR Part 355 Appendices A and B) or CERCLA hazardous substance (listed in 40 CFR Table 302.4) equal to or greater than an RQ | Immediately (within 15 minutes of discovery) notify the LEPC (505-662-8283) and the SERC (505-476-9635). Immediately notify the 911 operator for a release that occurs during transportation or from storage incident to transportation. Notifying the LEPC/SERC is required only for a release of an extremely hazardous substance. | A written follow-up emergency notice must be submitted to the LEPC and the SERC as soon as practicable after the release. |
| Resource Conservation and Recovery Act (RCRA) | 40 CFR 262.260, .265; 263.30; 264.51, .56, .196; 265.51, .56, .196; 270.14, .30; 273.17, .37, .54; 279.43, .53; 280.50, .52, .53, .60, .61 | Release of hazardous or mixed waste from a permitted unit, interim status, central accumulation area, or satellite accumulation area for which the RCRA Permit Contingency Plan was triggered | Notify NMED Hazardous Waste Bureau within 24 hours (24-hour emergency phone: 505-827-9329; non-emergency phone: 505-476-6000); see Attachment 1 for details. | Submit written report to NMED HWB within 5 days. |
| Clean Air Act/ Radionuclide NESHAP | 40 CFR 61, Subpart H | Airborne release of radioactive material in excess of an RQ | Notify the EPA Region 6 health physicist (214-665-8541 [office]; 214-755-1530 [mobile]; and 972-937-1900 [home]) immediately after providing notification to the NRC. | The EPC-CP Radioactive Air Emissions Management team will coordinate follow-up. |

| Statute | Regulations | Incident | Immediate Reporting Requirements | Follow-Up Reporting Requirements |
|---|---|---|---|---|
| New Mexico Air Quality Regulation | 20 NMAC 2.7 | Incidents in which excess emissions exceed an air quality regulatory limit or air permit emission limit | File initial report to NMED Air Quality Bureau (AQB) no later than the end of the next business day after the exceedance was discovered; submitted online via NMED AQB Secure Extranet Portal. | Submit final written report to NMED AQB within 10 business days. |
| Toxic Substance Control Act (TSCA) | 40 CFR 761.120, 761.125 | Greater than 1 pound by weight of PCBs (TSCA) or greater than 270 gallons of untested mineral oil suspected of containing PCBs | Contact the National Response Center (800-242-8802) and the EPA Region 6 Office of Prevention, Pesticides, and Toxic Substances Branch (866-372-7745) as soon as possible after discovery but no later than 24 hours after discovery. | Within 24 hours; follow-up as required by agency |

## ATTACHMENT 22: EPC-CP-QP-1007, UNPLANNED RELEASES

| | | |
|---|---|---|
| **EPC-CP-QP-1007** | Revision: **1** | Los Alamos NATIONAL LABORATORY |
| Effective Date: 06/06/2023 | Next Review Date: 06/06/2026 | |

## Environment, Safety, Health, and Quality Directorate

## Environment Protection and Compliance – Compliance Programs Group

## Quality Procedure

# Unplanned Releases

**Hazard Grading:** ☒ Low ☐ Moderate ☐ High/Complex

**Usage Level:** ☒ Reference ☐ UET ☐ Mixed: UET Sections: _____

**Status:** ☐ New ☒ Major Revision ☐ Minor Revision

☐ Review w/No Changes ☐ Other: _____

**Safety Basis:** ☒ N/A ☐ USQ ☐ USI Number: _____

**Document Author/Subject Matter Expert:**

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Steve Pearson | EPC-CP | Signature on File | 06/05/2023 |

**Derivative Classifier:** ☒ **Unclassified or** ☐ _____

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Steve Wolfel | EPC-CP | Signature on File | 06/06/2023 |

**Approval Signatures:**

| Responsible Line Manager: | Organization: | Signature: | Date: |
|---|---|---|---|
| Sarah Holcomb, Team Leader | EPC-CP | Signature on File | 06/06/2023 |
| Responsible Line Manager: | Organization: | Signature: | Date: |
| Steve Story, Group Leader | EPC-CP | Signature on File | 06/06/2023 |

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## REVISION HISTORY

| **Document Number and Revision** *[Include revision number, beginning with Revision 0]* | **Effective Date** *[Document Control Coordinator inserts effective date]* | **Description of Changes** *[List specific changes made since the previous revision]* |
|---|---|---|
| 0 | 12/98 | New Document. |
| 1 | 06/00 | Annual review, added Cerro Grande fire hazards |
| 2 | 07/01 | Annual review. |
| 3 | 06/03 | Annual review. |
| 4 | 04/04 | Annual review, changes to HCPs. |
| 5 | 02/07 | Annual review, changes to reflect organizational restructure. |
| 6 | 07/08 | Annual review. |
| 7 | 09/10 | Biennial Review and revision. |
| 8 | 04/11 | Removed prerequisites, added note re: on-call spill reporting. |
| 9 | 07/13 | Biennial review and revision, implemented new procedure format. |
| 10 | 09/30/15 | Biennial review and revision, implemented new procedure format. Controlled the updated LANL ENV-CP Unplanned Release Report. |
| EPC-CP-QP-1007, Rev. 0 | 06/03/2020 | Format document into new template and update content. This document was formerly ENV-CP-QP-007 R10. |
| EPC-CP-QP-1007, R1 | 06/06/2023 | Renaming of procedure from *Spill Investigations* to *Unplanned Releases*, to distinguish from planned releases; text changes made to reflect current operating practices; update of contact list due to personnel changes. |

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## 1.0 INTRODUCTION

All unplanned releases that occur at Los Alamos National Laboratory (LANL) must be evaluated, remediated, and documented to ensure corrective actions are completed and reporting requirements are fulfilled. The investigation of unplanned releases and coordination of corrective actions are delegated to the Environmental Protection and Compliance Division's Compliance Programs Group (EPC-CP). An unplanned release, as used in this document, is defined as any unpermitted spilling, leaking, pumping, pouring, emitting, emptying, discharging, escaping, leaching, or unauthorized dumping of liquid or other material, including potable water, that may be a potential pollutant to water quality or that could result in adverse impact to the environment; excluding: 1) emissions from engine exhaust from any vehicle; 2) normal application of fertilizers, pesticides and deicing solutions.

**NOTE**

For PLANNED discharges of potable water or steam condensate contact EPC-CP Water Quality Permitting/Compliance SME for NMWCC-Planned Releases to ensure proper procedures are followed and appropriate documentation is completed.

### 1.1 Purpose

This EPC-CP procedure describes the steps for performing unplanned release investigations throughout LANL.

### 1.2 Scope

The scope of this procedure is limited to the performance of unplanned release responses by EPC-CP personnel and/or authorized subcontractors. Activities include unscheduled site visits to any area of the Laboratory upon notification or discovery of an unplanned release as support staff for the on-scene Incident Response Commander (IRC), Deployed Environmental Professional (DEP) staff, or Facility Operations Directorate (FOD) designated facility representative. Support activities include evaluation and documentation of the unplanned release; guidance regarding remediation; and reporting to regulatory agencies.

### 1.3 Applicability

This procedure applies to all EPC-CP personnel and after hours on-call personnel responsible for conducting unplanned release investigations.

### 1.4 Authority

The EPC-CP Group Leader is the issuing authority for this document.

## 2.0 PRECAUTIONS AND LIMITATIONS

A Hazard Analysis was performed for the tasks associated with this procedure. The hazard rating for the activities described in this procedure is **LOW** and does not require an Integrated Work Document.

### 2.1 Precautions

Precautions apply to abnormal conditions or hazards to personnel or equipment that can be encountered while performing this procedure. The following precautions shall be taken when performing work using this quality technical procedure:

- Personnel shall wear appropriate clothing (e.g., boots, long pants, gloves, etc.) to perform unplanned release investigations in the field. This may also include safety glasses, a hardhat, a safety vest, and/or safety shoes/boots as required by the location and area to be inspected.
- Work may be paused or discontinued due to conditions that make a location dangerous for worker safety or prevent personnel from safely accessing a site (i.e., flash floods, lightning, wildfires, hail, icy roads, deep snow, extreme temperatures, or hazardous LANL Operations such as firing shots, burns, or security).

**NOTE**

SAFETY is a priority when responding to, and mitigating unplanned releases. If a safety issue exists that could potentially endanger personnel investigating the event or mitigating the release, contact the Emergency Operations Support Center (EOSC) at 667-2400 for support.

### 2.2 Limitations

Limitations are defined boundaries (i.e., training, hold points) that are NOT to be exceeded while preforming the activities defined in this procedure. The following limitations are applicable to performing work using this technical procedure:

- Perform field activities in accordance with EPC-DO-QP-100, General Field Safety, and/or be escorted by Emergency Management Operations – (EM-OPS) personnel or site personnel at all times.
- Unplanned releases that occur on Department of Energy property due to activities performed by an organization not associated with Triad National Security, LLC (e.g., Los Alamos County, Newport News Nuclear BWXT Los Alamos (N3B), etc.,) are the responsibility of that organization. The respective organization is responsible for site remediation, completion of corrective actions, and fulfillment any external reporting requirements.

- Some unplanned releases have 15-minute and 24-hour verbal notification requirements. Personnel using this procedure must be familiar with the reporting requirements of EPC-CP-QP-0903, Environmental Reporting Requirements for Releases or Events.

**Note**

Unplanned releases that occur on Department of Energy property from an organization not associated with Triad National Security, LLC (e.g., Los Alamos County, N3B etc.) are the responsibility of that organization. The respective organization is responsible for site remediation, corrective actions, and external reporting requirements. If the owner of the release is not associated with Triad, refer the caller to the EOSC at 667-2400. If the release is determined to belong to N3B, a courtesy notification shall be made to the Prime Contract, Interface, and Policy Office – Division Office (PCIP-DO) regarding location and details of the release.

## 3.0 PREREQUISITE ACTIONS

### 3.1 Planning and Coordination

The response to unplanned releases requires frequent and unscheduled site visits to any area of the Laboratory. Certain facilities and Laboratory locations require additional training and have specific access requirements that must be followed. Specific activities may include one or more of the following:

- Site-Specific Training (e.g.,WFO operational areas).
- Coordination with Access Control and/or Security for escort, keys, safety (e.g., explosives areas, burn grounds, between security fences), two-way radios.
- Security Clearance (i.e., TA-3-66, TA-55, TA-8, 9, 14, 15, 16, 39, 40, 49).

Site access for unplanned release response will require that the EPC-CP Investigator maintain a security clearance and multiple site-specific training requirements. It will also require that the Investigator coordinate with the EOSC, designated FOD representative, and/or Deployed Environmental Professional (DEP).

### 3.2 Performance Documents

The following documents are required to perform this procedure:

- EPC-CP-QP-1007 Form 1, Unplanned Release Report (Attachment 2).
- EPC-CP-QP-1007 Form 2, 7/15 Day Release Report (Attachment 3).
- EPC-CP-QP-0903, Environmental Reporting Requirements for Releases or Events.

### 3.3 Special Tools, Equipment, Parts, and Supplies

Ensure the following are available for responding to release notifications:

- Personal protective equipment (PPE) as required by each specific site location (e.g., hardhat, safety vest, safety glasses, safety shoes, etc.)
- Cell phone (only government cell phones are allowed in secure areas.) See https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property.
- EPC-CP Spills Pager – the EPC-CP spills team maintains the 664-7722 pager; notifications can be configured to send alerts to wireless pagers, government cell phones and e-mail.
- External dosimeter (as required by site or facility).
- EPC-CP-QP-1007 Form 1 - to record pertinent information about the release, i.e., time and date of release, location and source of release, type of material released, quantity of material released, impacted media, quantity of waste generated, time release was stopped, any immediate mitigation actions taken to contain or control the release, time, date and description of notifications, etc.).
- Physical or electronic maps (e.g., utility line locations, Solid Waste Management Unit (SWMU) / Area of Concern (AOC) boundaries, land ownership boundaries).

## 4.0 PERFORMING UNPLANNED RELEASE INVESTIGATIONS

### 4.1 Notification of an Unplanned Release

EPC-CP personnel that respond to, and conduct unplanned release investigations must: 1) ensure that the immediate mitigation of releases occurs (i.e., isolation of active leaks, deployment of absorbent controls or secondary containment, etc.); 2) provide timely notification to appropriate regulatory organizations in the event that the unplanned discharge meets reportable criteria as described in EPC-CP-QP-0903. EPC-CP provides 24-hr support and response to all notifications of an unplanned release; and 3) provide guidance to facility personnel on spill mitigation and cleanup.

#### 4.1.1 Notification and Response to a 7-2400 (EOSC) PAGE

A **PAGE** from 7-2400 is a notification from the EOSC dispatcher of a release or event that may require EPC-CP presence on site. A **PAGE** from the EOSC will nearly always involve a response by HAZMAT personnel. The EPC-CP representative will need to perform the following steps when receiving this type of **PAGE**.

[1] Call 667-2400 and collect information of the event from the EOSC dispatcher. Note that this information should be regarded as preliminary, as more definitive information will be available when first responders arrive at the site and can fully assess the event. At a minimum, collect the following information from the EOSC dispatcher:

a) Verify if an EPC-CP on-site presence is requested. Some notifications (i.e., HAZMAT chemical characterizations or assessments) may not require an EPC-CP representative to be on site.

b) Location of the release (i.e., Technical Area, building number, outside or inside of structure, mile post number, etc.). Based on location, determine what access requirements are applicable (i.e., Clearance Level, Site Specific training, escorting, etc.).

c) Type, volume and source of the release. Based upon the material spilled and location, determine the appropriate PPE for the site visit (i.e., steel toed boots, safety glasses, hard safety, safety vest, etc.).

d) Name and cell phone number of the IRC responding to the release.

[2] Travel to the release location and report to the IRC to receive a site-specific safety and security briefing.

[3] Assess and evaluate the nature and extent of the release. Inspect the site to ensure that the extent is adequately defined; identify any impacts to watercourses, SWMUs, and evidence of erosional impacts as a result of the release.

[4] Provide support and guidance to EM-OPS, HAZMAT and Facility personnel on release mitigation measures and requirements.

[5] Determine if samples will be required and coordinate with the WMC representative for preparation and submittal of a Request For Analysis (RFA). Note that for reportable releases where corrective actions involve significant removal of soil or surface materials, analytical confirmation samples may be required for submittal to regulators to justify administrative closure of the event.

[6] Provide the final inspection of the site to verify that corrective actions were adequate and are complete. Once the release has been mitigated, the IRC will release the site back to the controlling FOD.

### 4.1.2 Notification and Response to Non-EOSC PAGES and Phone Calls

Notifications may be received by PAGER or phone calls directly to the EPC-CP representative. Upon receiving this type of notification, the EPC-CP representative will need to perform the following steps:

[1] Call the phone number indicated on the PAGER or respond directly to the caller on the phone. Collect the following information:

a) identity of caller.

b) exact location of observed release.

c) material released and estimated volume, flow rate, or approximate surface area of release.

[2] Based on the preliminary information received, assess whether on-site resources will be sufficient to mitigate the release. Notify the EOSC if the assessment determines that the release volume or impacted area appears to be beyond the capability of on-site personnel and resources, or, if the release involves an unknown chemical or hazardous material, if the release involves a large volume of petroleum product, if the release threatens to migrate offsite or impact a watercourse or

storm drain, if vehicular traffic control is needed to safely remediate the release. If the EOSC determines an IRC is needed on site, then return to section 4.1.1 and proceed with the response and investigation as outlined.

[3] Proceed to the site and provide guidance to the FOD designee, waste management coordinator (WMC), and/or DEP regarding the containment and/or cleanup of the release. Examples of the types of guidance to provide include the following:

a) Inspect the site to ensure that the extent of the unplanned release is adequately defined.

b) Recommend corrective actions.

c) Recommend how to stabilize the site for further remediation (i.e., BMPs, absorbent controls, secondary containment, etc.).

d) Identify watercourse boundaries, SWMUs, PRSs near or at the release site.

e) Provide the final inspection of the site to verify that the corrective actions were adequate and complete.

**NOTE**

The Spill Investigator may respond to the unplanned release and determine that the containment and remediation is beyond the capability of the designated FOD representative, DEP, and/or WMC to respond. The EOSC should be contacted if additional technical expertise or materials are needed to remediate the release.

**NOTE**

If the release is low volume of a known material, the delegated FOD representative, DEP or WMC may remediate the release without the EPC-CP spill representative being present. The designated FOD rep, DEP or WMC will complete the Unplanned Release Report (EPC-CP-QP-1007 Form 1) and submit a copy to the EPC-CP spill team lead for record keeping.

## 4.2 Notifications, Documentation, and Record Keeping

### *4.2.1 Notifications*

#### 4.2.1.1 Non-Reportable Releases

If the release is determined to be non-reportable, an e-mail notification shall be made by the EPC-CP investigator to the EPC-CP Water Quality Team Lead, EPC-CP Group Leader, and applicable internal stakeholders. Include the following information in the e-mail: date of release or discovery, location, quantity, and type of material, and corrective actions taken to mitigate and remediate the release.

#### *4.2.1.2 Reportable Releases*

If the release is determined to be reportable, the EPC-CP spill team lead, or delegated EPC-CP on-call representative shall make the following notifications in the order described. A current contact list is provided in Attachment 1 of this procedure.

[1] E-mail notification to EPC-CP Group and Division Management, and internal stakeholders (i.e., EPC-CP Water Quality Team Lead and Permit SMEs, FOD and/or designated FOD representative). include all pertinent facts:

a) date, time of release or discovery, location of release

b) quantity and type of material

c) status of corrective actions

d) criteria that were met to classify the release as reportable

[2] Verbal notification to the DOE-NNSA representative explaining that a reportable release has occurred and 24-hr verbal notifications will be made to the appropriate regulatory agencies.

[3] 24-hr verbal notifications to the New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB), Surface Water Quality Bureau (SWQB), and Hazardous Waste Bureau (HWB). If the release is reportable and has occurred after-hours on Friday or Saturday, the On-Call EPC-CP representative is responsible for making the required regulatory verbal notifications. If the release occurs on Sunday or weekdays the 24-hr verbal notifications will be made by the EPC-CP spill team lead.

**CAUTION**
Unplanned releases may have EXTERNAL reporting requirements that must be completed within 15 minutes or 24-hours of discovery based upon EPC-CP-QP-0903, Environmental Reporting Requirements for Releases.

### *4.2.2 Documentation*

#### *4.2.2.1 Documentation for Non-Reportable Releases*

If the release is non-reportable, then EPC-CP-QP-1007 Form 1 must be completed in its entirety and submitted to the EPC-CP spill team lead within five working days for record keeping.

#### *4.2.2.2 Documentation for Reportable Releases*

If the release is reportable, the EPC-CP spill team lead will document the release on EPC-CP-QP-1007 Form 2, 7/15 Day Release Report. The completed form will be reviewed and assigned an LA-UR document release number and submitted to the appropriate regulatory agencies and internal

stakeholders within the required 7 and 15 day time frames. If corrective actions have been completed, administrative closure may be requested in the 7 or 15 day reports. Otherwise, closure will be requested via formal letter when corrective actions have been completed.

### *4.2.3 Recordkeeping*

All unplanned release documentation, reportable and non-reportable, are electronically stored in an Access spills database located at ENV(\\dcstorage.lanl.gov):\CP\WQ\WQCC_COMP_PRPG\Spills. EPC-CP-QP-1007 Form 1 and Form 2, as well as all regulatory letter correspondence are linked to each unplanned release event and stored in the database. The database is maintained by the spill team leads who have access permission for data entry.

## 5.0 TRAINING

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified in EPC-CP-PIP-1001, New Mexico Water Quality Control Commission (WQCC) Program Implementation Plan (PIP). This will include "self-study" (required reading) for this procedure as assigned and documented in accordance with ADESH-TPP-301, ADESH Training Program Plan (TPP).

## 6.0 RECORDS

EPC-CP is the Office of Record for this document and must be maintained in accordance with PD1020, *Document Control and Records Management* and ESHQ-AP-006, R0 ESHQ *Records Management Procedure*. Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management. The following records are generated by this procedure.

| Record Title | QA Record | Non-QA Record |
|---|---|---|
| EPC-CP-QP-1007 Form 1, *EPC-CP Unplanned Release Report* | ☒ | ☐ |
| EPC-CP-QP-1007 Form 2, *EPC-CP 7/15 Day Release Report* | ☒ | ☐ |
| Correspondence (i.e.,formal written communication to and from the New Mexico Environment Department) | ☒ | ☐ |
| Correspondence - E-mail Submittals of 7/15 Day Release Reports to NMED | ☒ | ☐ |

## 7.0 DEFINITIONS AND ACRONYMS

### 7.1 Definitions

See LANL *Definition of Terms*.

### 7.2 Acronyms

See LANL Acronym Master List.

## 8.0 REFERENCES

ESHQ-AP-006 R0, ESHQ Records Management Procedure

ADESH-TPP-301, ADESH Training Program Plan (TPP)

EPC-CP-PIP-1001, New Mexico Water Quality Control Commission (WQCC) Program Implementation Plan

EPC-CP-QP-0903, Environmental Reporting Requirements for Releases

EPC-DO-QP-100, General Field Safety

P217, Controlled Portable Electronic Devices

## 9.0 ATTACHMENTS

Attachment 1: Contact List

Attachment 2: EPC-CP-QP-1007-Form 1, *Unplanned Release Report*

Attachment 3: EPC-CP-QP-1007-Form 2, *7/15 Day Release Report*

## Attachment 1: Contact List

| LANL Primary | | |
|---|---|---|
| **POC** | **Phone No.** | **E-Mail** |
| Emergency Operations Support Center | (505) 667-2400 | |
| EPC-CP Spills Pager | (505) 664-7722 | |
| WM-WGS Response Pager | (505) 664-5864 | |
| EPC-DO | (505) 667-5466 | andiek@lanl.gov |
| EPC-CP Group Lead | (505) 412-5659 | story@lanl.gov |
| EPC-CP WQ Team Lead | (505) 396-0866 | sholcomb@lanl.gov |

| Regulatory | | |
|---|---|---|
| New Mexico Environment Department<br>24/7 - Non-Emergency Hotline<br>24/7 - Emergency Hotline | <br>(866) 428-6535<br>(505) 827-9329 | |
| Ground Water Quality Bureau<br>Gerald Knutson<br>Andrew Romero (DP 1132/any RLWTF releases) | (505) 827-2900<br>(505) 660-7189<br>(505) 660-8624 | <br>Gerald.Knutson@env.nm.gov<br>AndrewC.Romero@env.nm.gov |
| Surface Water Quality Bureau<br>Levi Dean | (505) 827-0187<br>(505) 365-3337 | <br>Levi.Dean@env.nm.gov |
| Hazardous Waste Bureau<br>Stephen Connolly | (505) 476-6000<br>(505) 470-8495 | <br>Stephen.connolly@env.nm.gov |
| US EPA Region 6<br>Nancy Williams | (800) 887-6063<br>(214) 665-7179 | <br>Williams.nancy@epa.gov |
| 24-hr National Response Center | (800) 424-8802 | |

| Department of Energy - NNSA | | |
|---|---|---|
| Karen Armijo | (505) 221-3664 | Karen.armijo@nnsa.doe.gov |
| Robert Gallegos | (208) 569-0377 | Robert.gallegos@nnsa.doe.gov |

| Interface and Policy Office/Newport News Nuclear BWXT Los Alamos (N3B) | | |
|---|---|---|
| Craig Douglass (Triad) | (505) 231-9478 | craigd@lanl.gov |
| N3B Operations Center | (505) 551-2954 | |
| Steve Maze (N3B) OPS Manager | (505) 309-1354 | Steve.maze@em-la.doe.gov |

| Additional Resources |
|---|
| Environmental Contact List (SMEs)<br>https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/_assets/docs/environmental-contacts.pdf |
| EPC-CP On-Call Schedule<br>https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/_assets/docs/EPC-OnCall-Schedule.pdf |
| **Attachment 1 - continued** |
| WM-WGS On-Call Schedule<br>https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/waste-management-programs/_assets/docs/emergency-on-call-WMC-calendar.pdf |
| Deployed Environmental Professional List<br>https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/compliance-programs/env_pros.shtml |
| RQ Calculator<br>https://rqcalculator.projectenhancement.com |

| Additional LANL Support | | |
|---|---|---|
| **UI-OPS**<br><br>Randy Vigil (for potable and sanitary wastewater releases)<br><br>David Trujillo (LOG vehicles; roadway releases) | <br><br>(505) 695-8900<br><br>(505) 412-9523 | <br><br>rvigil@lanl.gov<br><br>dtrujillo@lanl.gov |
| **LOG-HERG** (Roads and Grounds)<br><br>Bernadette Lopez | <br><br>(505) 695-3799 | <br><br>lopez_b@lanl.gov |
| **IF-OPS**<br>Bill Gorman (building related releases) | <br>(505) 695-8993 | <br>wgorman@lanl.gov |

## Attachment 2: Unplanned Release Report, EPC-CP-QP-1007-Form 1

**Los Alamos National Laboratory**
**Environmental Compliance Program (EPC-CP)**
**Unplanned Release Report**

| | | | |
|---|---|---|---|
| **Form Completed By:** | | **Telephone:** | **Group:** |
| **Spill Owner Details (Specify):** | ☐ TRIAD, LLC | ☐ Subcontractor:_____ | ☐ Other:_____ |
| **Date of Spill/Date Spill Discovered:** | | | |
| **Location:** | | | |
| **Material Spilled:** | ☐ Hydraulic Fluid<br>☐ Potable Water<br>☐ Diesel | ☐ Anti-freeze/coolant<br>☐ Steam Condensate<br>☐ Lubricants/Oils | ☐ Refrigerant Oil<br>☐ Gasoline<br>☐ Other: _____ |
| **Volume Spilled:** | | **Waste Volume Generated:** | |
| **Source of Spill:**<br>Vehicle ID:<br>Equipment ID: | | ☐ Potable Water Line<br>☐ Fire Suppression System<br>☐ Fuel Tank | ☐ Radiator<br>☐ Condensate Line<br>☐ Other:_____ |
| **Describe the spill response in chronological order. Include response personnel, steps taken to contain the spill, and steps/spill control equipment used to clean it up. Please indicate if corrective actions have been completed and describe actions taken to prevent spill recurrence:**<br><br>**Date Corrective Actions Completed:** | | | |
| **Did the spill enter or impact any of the following? (Check as many as apply)**<br>☐ RCRA Treatment Storage Disposal Facility<br>☐ RCRA Satellite Accumulation Area<br>☐ RCRA <90 Day Storage Area<br>☐ NPDES MSGP Facility | | ☐ Floor Drain, if so please indicate affected facility _____<br>☐ Watercourse/drainage area, if so please indicate _____<br>☐ Solid Waste Management Unit/Area of Concern, if so please indicate _____<br>☐ None | |
| **Did the spill occur inside or outside a building?** | ☐ Inside ☐ Outside | | |
| **Did the spill occur on: (Check as many as apply)** | ☐ Concrete<br>☐ Carpeted Floor<br>☐ Tile<br>☐ Wooden Floor/Deck | ☐ Asphalt<br>☐ Graveled/Rocky Area<br>☐ Soil/Vegetated Area<br>☐ Other: _____ | |
| **Samples Collected:**<br>☐ None<br>☐ Water | ☐ Soil<br>☐ Air<br>☐ Other: _____ | If samples were collected, indicate analytical suite: | |
| **Certification** | | | |
| I certify that I am knowledgeable about the information on this form. The information, to my knowledge, is true, accurate, and complete. | | | |
| **Name of Certifying Official:** | | **Organization:** | **Date:** |
| **Certification:** | | | |
| **Completed by EPC-CP Personnel**<br>**Date Received:** | **Severity Index:** | **Causal Analysis:** | ☐ Non-Reportable<br>☐ Reportable |

EPC-CP-QP-1007 Form 1 Return Completed Form to EPC-CP (spearson@lanl.gov) 11/2019

## Attachment 3: 7/15 Day Release Report, EPC-CP-QP-1007-Form 2

# RELEASE / DISCHARGE NOTIFICATION

LOS ALAMOS NATIONAL LABORATORY LA-UR-

Permit Number: NM0028355

Calendar Year

NPDES or Operational Spill/Release ☐
ER Spill/Release ☐
Other Spill/Release ☐
Indicate with "X" in appropriate box.

Release ID Number:

Responsible Facility/User Group:

Contact Person: Pager #:

Phone #: Cell Phone #:

Release/Discharge Location:

TA:

Building:

If the release/discharge is associated with a NPDES Outfall, Potential Release Site (PRS) or Solid Waste Management Unit (SWMU), indicate the site/unit number and its relationship to the release/discharge:

NPDES Outfall: ☐ PRS: ☐ SWMU: ☐ PRS/SWMU Number:

Indicate with "X" in appropriate box(es).

Relationship of the Discharge to a SWMU or PRS:

Discharge Occurred: Date & Time

Discharge Discovered: Date & Time

Discharge Stopped: Date & Time

Cleanup Started: Date & Time

Cleanup Completed: Date & Time

Material(s) Released / Discharged:

Release/Discharge Mitigation Method:

Weather Conditions:

Duration of Release/ Discharge, in HOURS:

Est. Volume released,in gallons:

Est. Volume Recovered, in gallons.

Corrective Actions Taken (ie, type of BMPs, etc):

Nearest Watercourse (Canyon Name)

If the release/discharge reached a watercourse, describe the estimated surface area affected, presence of release/discharge now in the watercourse, and the media the release/discharge was detected in:

Depth to Groundwater, in FT, if known:

Distance to Nearest Drinking Water Well, in FT, if known:

Well ID#

## *24-HOUR RELEASE / DISCHARGE NOTIFICATIONS*

| | Contact Person | Phone | Fax | Date & Time (or Comment) | |
|---|---|---|---|---|---|
| EPA: | | | | | |
| NMED/SWQB: | | | | | |
| NMED/GWQB: | | | | | |
| NMED/HRMB: | | | | | |
| NMED/DOE-OB: | | | | | |
| EPC-CP: | | | | | |
| DOE: | | | | | |
| OTHER: | | | | | |
| OTHER: | | | | | |

Comments:

Form Completed By:

## 7 DAY RELEASE / DISCHARGE ACTIONS

7 Day Notice ☐ 7 Day Notice Date: 7 Day Notice By:

Mark "X" when done.

Comments:

## 15 DAY RELEASE / DISCHARGE ACTIONS

15 day Follow-up Due: 15-day Follow-Up By:

Comments:

## NMED 30 DAY APPROVAL / DISAPPROVAL

NMED 30 Day Response Date:

Comments:

---

Peter Maggiore, Acting Assistant Manager
National Security Missions
Los Alamos Field Office
3747 West Jemez Road MS-A316
Los Alamos, New Mexico 87544
(505) 606-0397

Jennifer Payne, EPC Division Director
Triad National Security, LLC.
Los Alamos National Laboratory
P.O. Box 1663, MS K404
Los Alamos, New Mexico 87544
(505) 667-2211

## ATTACHMENT 23: EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN PREPARATION AND MAINTENANCE

| EPC-CP-QP-2110 | Revision: **1** | Los Alamos NATIONAL LABORATORY |
|---|---|---|
| Effective Date: 06/15/2023 | Next Review Date: 06/15/2026 | |

## Environment, Safety, Health, and Quality Directorate

## Environment Protection and Compliance – Compliance Programs Group

## Quality Procedure

# MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance

**Hazard Grading:** ☒ Low ☐ Moderate ☐ High/Complex

**Usage Level:** ☒ Reference ☐ UET ☐ Mixed: UET Sections: _____

**Status:** ☐ New ☒ Major Revision ☐ Minor Revision

☐ Review w/No Changes ☐ Other: _____

**Safety Basis:** ☒ N/A ☐ USQ ☐ USI Number: _____

**Document Author/Subject Matter Expert:**

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Holly L. Wheeler | EPC-CP | Signature on File | 05-26-2023 |

**Derivative Classifier:** ☒ **Unclassified or** ☐ _____

| Name: | Organization: | Signature: | Date: |
|---|---|---|---|
| Steven E. Wolfel | EPC-CP | Signature on File | 05-30-2023 |

**Approval Signatures:**

| EPC-CP- Reviewer: | Organization: | Signature: | Date: |
|---|---|---|---|
| Alethea Banar | EPC-CP | Signature on File | 05-30-2023 |
| EPC-CP Reviewer: | Organization: | Signature: | Date: |
| Terrill W. Lemke, Team Leader | EPC-CP | Signature on File | 06-14-2023 |
| EPC-CP RLM: | Organization: | Signature: | Date: |
| Steve Story, Group Leader | EPC-CP | Signature on File | 06-15-2023 |

*This copy is uncontrolled.*
*Users are responsible for ensuring they work to the latest approved version.*
*To document a required read, Login to UTrain, and go to the Advanced Search.*

## REVISION HISTORY

| Document Number and Revision | Effective Date | Description of Changes |
|---|---|---|
| EPC-CP-QP-2110, Rev. 0 | 01/07/2020 | New document |
| EPC-CP-QP-2110 R1 | 06/15/2023 | This document supersedes EPC-CP-QP- 2110 R0. Reviewed and revised to the new 2021 MSGP language and requirements. Updated Sections 1.0, 1.1, 1.2, 3.0, 3.2, 4.1, 4.2, 5.0, 6.0, 7.0, 8.1, 8.2, 9.0, Attachment 1 and Attachment 2. Permit section references and language updated in Sections 1.1, 4.2, 5.0, 8.1, 8.2, Attachment 1, and Attachment 2. Updated checklist to new MSGP sections and language. |

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## 1.0 INTRODUCTION

The Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP), also referred to as the Permit, contains specific requirements for industrial activities at Los Alamos National Laboratory (LANL) covered by the Permit. One requirement is the preparation, maintenance, and routine revision of a Stormwater Pollution Prevention Plan (SWPPP).

### 1.1 Purpose

Active MSGP facilities must be documented in a SWPPP. The SWPPP is intended to document the selection, design, and installation of stormwater control measures (SCM) to meet permit effluent limits. Additional documentation required by the Permit is kept with the SWPPP (including inspection reports, maintenance activities, monitoring results, and conditions requiring corrective action and AIM responses) and is intended to document the implementation of permit requirements.

### 1.2 Scope

This procedure contains information and specific steps for preparing and revising a SWPPP and identifying and documenting conditions to meet Permit requirements. Part 6 of the Permit contains specific requirements for developing, maintaining, and revising a SWPPP for facilities with stormwater discharge associated with industrial activities permitted under an MSGP. Additional documentation required to be kept with the SWPPP can be found in Part 6.5 of the Permit.

### 1.3 Applicability

This procedure applies to Environmental Protection and Compliance-Compliance Programs (EPC-CP) technical staff, Deployed Environmental Professionals (DEPs), and subcontractor personnel (as applicable) who develop and maintain SWPPPs at MSGP regulated LANL facilities operated by Triad, LLC.

## 2.0 PRECAUTIONS AND LIMITATIONS

The hazard rating for the activities described in this procedure is **LOW** and does not require an Integrated Work Document.

## 3.0 PREPARING AN MSGP STORMWATER POLLUTION PREVENTION PLAN

Part 6 of the Permit contains the specific requirements for developing, maintaining, and revising a SWPPP. At a minimum, the SWPPP will contain the following elements:

- Stormwater pollution prevention team (Stormwater PPT);
- Site description (including a site map);
- Summary of potential pollutant sources;

- Description of stormwater control measures;
- Schedules and procedures;
- Documentation to support eligibility considerations under other federal laws; and
- Signature requirements.

Where the SWPPP refers to procedures in other facility documents, such as a Spill Prevention, Control and Countermeasure Plan or an Environmental Management System, copies of the relevant portions of those documents must be kept with the SWPPP.

The template provided in Attachment 1, EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* contains the elements required in a LANL MSGP SWPPP. Contact the MSGP Program Lead for questions regarding content.

### 3.1 Gathering Information for the SWPPP

**SWPPP Preparer**

[1] Contact the MSGP Program Lead for a copy of the most current SWPPP template.

[2] Obtain a copy of the previous year's SWPPP for reference (if one is available).

[3] Review the SWPPP template.

[a] Identify information that will need to be included in the SWPPP (e.g., MSGP sector, operational areas, Pollution Prevention Team member names, etc.).

[b] Identify documents that will need to be attached to the SWPPP (e.g., certifications, memorandums, maps, data summaries, endangered species reports, etc.).

[4] Identify documents and/or reports that are provided by EPC-CP.

[a] Contact the MSGP Program Lead with a request for needed information.

[5] Obtain maps as specified in the SWPPP template.

[a] Request a new map or update to existing map from the MSGP Program Lead.

[b] Provide a draft or map markup with information as required in the Permit.

### 3.2 Preparing the SWPPP

**SWPPP Preparer**

[1] Use a copy of the most current SWPPP template.

[2] Add information to the relevant sections.

[3] Text highlighted in yellow indicate areas to be replaced with facility specific information.

[a] IF text is part of an instruction (e.g., Insert site description text here.)
THEN delete the entire line and replace with the appropriate information.

[b] IF text is embedded as part of the line,
THEN replace just the yellow highlighted text with appropriate information (e.g., delete *Sector XX- (Insert Sector Title)* and replace with *Sector P – Land Transportation & Warehousing)*.

[4] Delete attachments that are not applicable to the active facility specific SWPPP.

[5] Attach other documentation (e.g., Spill Prevention, Control and Countermeasure Plan, Environmental Management System, copies of relevant portions of documents) as necessary.

[6] Send the draft SWPPP to the EPC-CP MSGP Program Lead and request a review.

***NOTE 1:*** The EPC-CP MSGP Program Lead may delegate the review to personnel in the Stormwater Permitting/Compliance Team.

**MSGP Program Lead or Designee**

[7] Review the SWPPP to ensure information required by the Permit is included.

[a] Encourage the use of the *MSGP SWPPP Review Guidance Checklist* as a best management practice to cross-check SWPPP content with the Permit. Refer to the checklist example in Attachment 2.

[b] Provide comments to the SWPPP Preparer.

**SWPPP Preparer**

[8] The Preparer must resolve review comments with the MSGP Program Lead.

[9] Obtain the signature of a duly authorized representative (refer to Appendix B, Subpart 11 of the Permit) on the certification statements associated with the SWPPP and attachments (refer to Attachment 9 of the *MSGP SWPPP Template* Example).

***NOTE 2:*** The Review & Approval System for Scientific and Technical Information (RASSTI) system requires upload of only PDF documents. It is highly recommended that all final certifications obtained contain a written signature rather than electronic signature or the author can print and scan an electronic signature as a pdf to insert it into the document. The RASSTI system adds a cover page to the document containing the Los Alamos Unlimited Release or LA-UR number, which obviates all electronic signatures due to the document change.

## 4.0 MAINTAINING THE MSGP SWPPP

### 4.1 Availability of the MSGP SWPPP

A complete copy of the current SWPPP is required to be kept at the active facility in an accessible format. The SWPPP must be immediately available to facility employees, EPA, and other entities identified in the Permit. The SWPPP must also be made available to the public. LANL meets this requirement by posting SWPPPs to the Electronic Public Reading Room internet web page. Refer to Part 6.4 of the Permit for more information.

**SWPPP Preparer**

[1] Submit the final certified SWPPP in PDF format to the RASSTI system at *rassti.lanl.gov*.

[a] The SWPPP must be identified as Los Alamos Unlimited Release, or LA-UR, to be posted to the Public Reading Room.

[b] Specify that the document falls under the Environmental Designated Unclassified Subject Area, or DUSA, system.

***NOTE 1:*** To take advantage of the DUSA, a DUSA trained author is required to submit the SWPPP. If this does not occur, the document will undergo **full classification review**, which takes a week. In this situation, a derivative classifier will need to be identified in the system.

[c] Identify a line manager for an approval signature.

[d] Identify the document for release to Public Reading Room.

[2] Add the cover page containing the LA-UR number generated by the RASSTI system to the SWPPP.

[3] Contact the RASSTI staff for questions and assistance using this system.

### 4.2 Additional Documentation Requirements

The Permit requires additional documentation to be kept with the SWPPP that together keep records complete and up-to-date and demonstrate full compliance with the conditions of the Permit. Some documents may be generated when a SWPPP is first written (e.g., copy of the permit). Other documents may be generated on an ongoing basis throughout a calendar year (e.g., inspections). Refer to Part 6.5 of the Permit for additional information.

**SWPPP Preparer or Owner**

[1] IF any of the following documents are generated,

THEN add the document to the facility SWPPP as soon as the document is generated and finalized (i.e., all signatures have been obtained).

- A copy of the Notice of Intent to Discharge (NOI) submitted to EPA and correspondence exchanged between Triad, LLC and EPA specific to coverage under the permit;

  ***NOTE:*** There may be several modifications to the NOI during a permit term. Ensure you coordinate with the MSGP Program Lead to confirm all modifications are included in the SWPPP.

- A copy of the acknowledgement received from the EPA assigning the NPDES permit identification number;
- A copy of the permit;
- Documentation of maintenance and repairs of stormwater control measures (refer to Part 2.1.2.3 of the Permit);
- All inspection reports, including Routine Facility Inspection Reports (refer to Part 3.1.6 of the Permit) and Quarterly Visual Assessments (refer to Part 3.2.2 of the Permit);
- Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (refer to Parts 3.2 and 4.1 of the Permit);
- Corrective action documentation (refer to Part 5.1 of the Permit);
- Documentation of any benchmark threshold exceedances, the AIM level triggered, and associated response (refer to Part 5.2 of the Permit);
- Rationale that SWPPP/SCM changes are unnecessary.
- Documentation required to meet any AIM exception (refer to Part 5.2.6 of the Permit);
- Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if stormwater is discharged directly to impaired waters; and
- Documentation to support any claim that the facility has changed its status from active to inactive and unstaffed with respect to the requirements to conduct routine facility inspections (refer to Part 3.1.5 of the Permit), quarterly visual assessments (refer to Part 3.2.4.4 of the Permit), benchmark monitoring (refer to Part 4.2.2.5 of the Permit), and/or impaired waters monitoring (refer to Part 4.2.5.2 of the Permit).

## 5.0 REVISING THE MSGP SWPPP

The Permit specifies conditions that trigger a SWPPP review to ensure numeric and non-numeric effluent limits are met and to determine if modifications to stormwater controls are necessary (refer to Parts 5.1.1 and 5.1.2 of the Permit).

The SWPPP must also be modified based on corrective actions and deadlines required under Part 5 of the Permit and documented in accordance with Part 5.3 of the Permit.

At a minimum, the SWPPP must be reviewed and revised once per calendar year, and no later than 45 days after conducting the final routine facility inspection for the year.

**SWPPP Preparer or Owner**

[1] The Stormwater PPT will review the SWPPP for the following at a minimum.

- The selection, design, installation, and implementation of stormwater control measures.
- Sources of pollution.
- Spill and leak procedures.
- Non-stormwater discharges (as applicable).

[2] IF any of the following conditions occur or are detected during an inspection, monitoring or other means,

THEN the Stormwater PPT must **immediately** review the SWPPP as specified above.

- Unauthorized release or discharge (e.g., spill, leak, discharge of non-stormwater not authorized by the permit);
- A discharge violates a numeric effluent limit (refer to Table 2-1 and Part 8.D.6 of the Permit);
- Stormwater control measures are not stringent enough for discharge to be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards or the non-numeric effluent limits in the permit;
- A required control measure was never installed, installed incorrectly, or not in accordance with Parts 2 and/or 8, or is not properly operated or maintained;
- Whenever a visual assessment shows evidence of stormwater pollution (e.g., foam, oil sheen, etc.);
- Construction or a change in design, operation, or maintenance at the facility that significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged;

  ***NOTE 1:*** Changes include building removal or replacement, SCM removal or installation, outfall removal or creating a new outfall, changing drainage pathways or the path of stormwater flow.

- If quarterly benchmark monitoring results indicate an AIM triggering event has occurred.

[3] The Stormwater PPT must determine the modification(s) to be made to implement or maintain stormwater control measures and/or take corrective action.

[4] The revision/modification(s) will be implemented at the facility.

[5] The SWPPP will be revised/modified within 14 days of completion of a modification or corrective action to reflect the modification(s) made.

[6] Obtain a signature and date from a duly authorized representative on all SWPPP revisions/modifications in accordance with Appendix B, Subpart 11 of the Permit.

## 6.0 TRAINING

The following personnel require training before implementing this procedure.

- EPC-CP MSGP stormwater compliance personnel
- DEPs
- Other LANL or subcontract personnel identified as being required to prepare and maintain MSGP SWPPPs as part of their job duties.

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include "self-study" (required reading) for this procedure. Other participating LANL groups may require training documentation pursuant to local procedures. All training will be assigned and tracked using the LANL training management system, UTrain.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete "self-study" (required reading) of this procedure.

## 7.0 RECORDS

MSGP SWPPPs are signed and certified by a duly authorized representative of the individual facilities. These completed documents are maintained at the permitted facility, managed by the facility's Records Management designated point-of-contact or document manager, and posted to the LANL public reading room. The MSGP team may retain a copy for reference purposes. Records must be maintained in accordance with P1020-1, *Laboratory Records Management*.

Below, are records generated as a result of implementing this procedure and are identified by title and type.

| Record Title | QA Record | Non-QA Record |
|---|---|---|
| Stormwater Pollution Prevention Plan | ☒ | ☐ |
| MSGP SWPPP Review Guidance Checklist | N/A | N/A |

## 8.0 DEFINITIONS AND ACRONYMS

### 8.1 Definitions

See LANL *Definition of Terms*.

**Best Management Practice (BMP)** – Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of "waters of the United States." BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage (*40 CFR Part 122.2).*

**Control Measure** – Any stormwater control or other method (including narrative effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

### 8.2 Acronyms

See LANL Acronym Master List.

| | |
|---|---|
| AIM | Additional Implementation Measures |
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance-Compliance Programs |
| DEP | Deployed Environmental Professional |
| DUSA | Designated Unclassified Subject Area |
| LANL or the Laboratory | Los Alamos National Laboratory |
| LA UR | Los Alamos Unlimited Release |
| MSGP or Permit | Multi-Sector General Permit |
| NPDES | National Pollutant Discharge Elimination System |
| NOI | Notice of Intent to Discharge |
| RASSTI | Review and Approval System for Scientific and Technical Information |
| SCM | Stormwater Control Measure |
| SWPPP | Stormwater Pollution Prevention Plan |
| PDF | Portable Document Format |
| PPT | Pollution Prevention Team |

## 9.0 REFERENCES

Unites States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated With Industrial Activity (MSGP), March 1, 2021

Federal Register, National Pollutant Discharge Elimination System (NPDES) 2021 Issuance of the Multi-Sector General Permit for Stormwater Discharges Associated With Industrial Activity. Federal Register: February 19, 2021, Volume 86, Number 32

Clean Water Act, Title 33 U.S.C. 1251

P1020-1, Laboratory Records Management

EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program

## 10.0 ATTACHMENTS

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Attachment 2: MSGP SWPPP Review Guidance Checklist Example

# MSGP Stormwater Pollution Prevention Plan

## Insert Facility Name

Triad National Security, LLC
Los Alamos National Laboratory

**XX/XX/XXXX**

**Revision X**

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## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

**Insert Name of Facility**
**STORMWATER POLLUTION PREVENTION PLAN**

**PREFACE**

This Stormwater Pollution Prevention Plan (SWPPP) was developed in accordance with the provisions of the Clean Water Act (33 U.S.C. §§1251 et seq., as amended), and the *United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP)* (U.S. EPA, January 2021) issued by EPA. The SWPPP uses the industry specific permit requirements for *Sector XX-(Insert Sector Title)* as a guide. The applicable stormwater discharge permit is EPA General Permit Identification Tracking Number NMR050013 MSGP 2021 [Triad National Security, LLC (Triad)]. Click here to view contents of the 2021 Multi-Sector General Permit.

This SWPPP applies to discharges of stormwater from the operational areas of (List the operational areas) at Los Alamos National Laboratory. Los Alamos National Laboratory (also referred to as LANL or the "Laboratory") is owned by the Department of Energy (DOE), and is operated by Triad. Throughout this document, the term "facility" refers to (Insert facility name). The current MSGP expires at midnight on February 28, 2026.

### 1.0 FACILITY DESCRIPTION

#### 1.1 Facility Information

| | | |
|---|---|---|
| Name of Facility: (Insert facility name e.g., TA-03-0038 Metal Fabrication Shops) | | |
| Street: P.O. Box 1663 | | |
| City: Los Alamos | State: NM | ZIP Code: 87545 |
| County: Los Alamos | | |
| NPDES ID (i.e., permit tracking number): NMR050013 MSGP 2021 | | |
| Primary Industrial Activity SIC code, and Sector and Subsector (2021 MSGP, Appendix D and Part 8): SIC XXXX, Sector X, Subsector XX | | |
| Estimated area of industrial activity at site exposed to stormwater: XX acres | | |
| **Discharge Information** | | |
| Name(s) of surface water(s)/segment that receives stormwater from your facility: Sandia Canyon (Sigma Canyon to NPDES outfall 001), Mortandad Canyon (within LANL); Cañon de Valle (below LANL Gage E256); or Arroyo de la Delphe (Above Kieling Springs to headwaters). **NOTE**: For Roads and Grounds also add "and Mortandad Canyon (within LANL)". **NOTE**: For Asphalt Batch Plant alone, delete Sandia Canyon information and insert only "Mortandad Canyon (within LANL)." | | |
| Does this facility discharge industrial stormwater directly into any segment of an "impaired water" (see definition in 2021 MSGP, Appendix A)? ☒Yes No | | |
| Pollutants causing the impairment: (Insert pollutants: list can be found in the Triad Notice of Intent (NOI) | | |

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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| |
|---|
| Pollutants causing the impairment (see above) that may be present in industrial stormwater discharges from this Facility: |
| Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2021 MSGP Table 1-1)? ☐Yes ☒No<br>If yes, which guidelines apply? (**NOTE**: Asphalt Batch Plant is subject to ELGs) Not applicable. |

### 1.2 Stormwater Pollution Prevention Team (PPT)

Insert a description of the team

The specific duties of individual team members of the PPT are listed in the table below.

| Staff Names | Individual Responsibilities |
|---|---|
| **Deployed Environmental Professional (DEP):**<br>Name or Title, Organization | Responsible for the support and oversight of all environmental programs and issues for the yards, buildings and facilities listed within this Plan. The DEP is responsible for training, recordkeeping, and SWPPP revision. The DEP ensures documentation of inspections and other required MSGP records relative to the SWPPP are managed in accordance with the Permit and established document control procedures and that the SWPPP is kept current. The DEP provides technical and regulatory support and regularly communicates with facility and operations personnel, as well as the PPT, regarding implementation of the MSGP and this SWPPP. Lastly, the DEP conducts routine facility inspections and if necessary, visual assessments, in accordance with the Permit. Identified conditions requiring corrective actions from routine facility inspections are entered into the Environmental Protection and Compliance-Compliance Programs (EPC-CP) Corrective Action Report (CAR) database. The DEP is responsible for tracking and updating the status of corrective actions that cannot be implemented immediately. The DEP is also responsible for immediate and timely communication to appropriate facility and operations management personnel to ensure that they are aware of non-compliant issues within the MSGP boundary and that they understand immediate action is required to correct the non-compliance. |
| **Facility Operations Division (FOD) Manager:**<br>Name or Title, Organization | Responsible for managing the maintenance and operation of all aspects of the yards, buildings and facilities listed within this Plan. The manager shall provide review and ensure coordination with core personnel and the PPT, as appropriate, when tenants within the FOD propose new processes, operations, features, or a new site that may be subject to the MSGP. This Manager is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan. |

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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| | |
|---|---|
| **EPC Core:**<br>Name or Title, Organization | The MSGP Program Lead is responsible for managing and administering the MSGP Program for all industrial facilities operated by Triad within Los Alamos National Laboratory. The MSGP Program Lead advises and provides guidance to facility or operations personnel on NPDES MSGP regulations/requirements. The Program Lead also acts as the institutional point of contact for all interactions with the regulatory authority (EPA) and supervises personnel implementing stormwater monitoring requirements for the facility. |
| **Operations Manager(s):**<br>Name or Title, Organization | Responsible for day-to-day operations at the facility. Assists the DEP and EPC with inspections; spill reporting; implementing, installing and maintaining storm water controls (also known as Best Management Practices) (BMPs); and providing documentation as requested by other team members. The Operations Manager is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan. Operations Managers also assist the DEP/EPC with SWPPP training and/or briefings, as requested. |

### 1.3 Site Description

Insert text with site description. Include information on type of operation(s), industrial operating equipment (associated with the Asphalt Batch Plant), main structures, activities, outfalls, and substantially identical discharge points.

### 1.4 General Location Map

The general location map for the facility can be found in Figure A. Figure B-X (if you have more than one site map, list them all here) contains all site maps and identifies all receiving waters associated with stormwater discharges from the facility. X percent of the site flows to (Insert canyon name). The canyon at this location is a (Insert stream type e.g., perennial, ephemeral, intermittent) and eventually flows to the Rio Grande approximately X miles southeast of the site.

### 1.5 Site Map

The site map is provided as Figure B-X (if you have more than one site map, list them all here) and illustrates the facility's activities: including facility boundary, structures, impervious surfaces, industrial activity areas, spills, operational areas, drainage patterns, stormwater controls, monitoring locations, outfalls and nearby receiving streams.

As required by the 2021 MSGP, the following information specific to the facility is either shown on the site map or contained with additional information provided in this SWPPP.

- **Site boundaries and acreage.** The site covers approximately X acres.
- **Significant structures and impervious surfaces.** The site is X percent impervious, primarily structures and paved lots.
- **Direction of stormwater flow and site drainage.** Direction of flow is indicated with arrows.
- **Locations of stormwater control measures (SCMs).**

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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- **Locations of all receiving waters.** In the immediate vicinity of the facility, (Indicate if any of the waters are Impaired and, if so, whether the waters have TMDLs established for them. See paragraph below this list). Also, indicate if the receiving water includes a wetland. A map of nearby receiving waters is provided as Figure B-X.
- **Locations of all stormwater conveyances.** This includes all ditches, pipes, and swales.
- **Locations of potential pollutant sources.**
- **Locations of significant spills or leaks.**
- **Locations of all stormwater monitoring points.**
- **Locations of stormwater inlets and outfalls.** Of which each will require a unique identification code for each outfall (e.g., Outfall 005, etc.), indicating if you are treating one or more outfalls as "substantially identical" and an approximate outline of the areas draining to each outfall.
- This facility is not associated with a municipal separate storm sewer system (MS4).
- **Areas of designated critical habitat for endangered or threatened species.** There are (Insert "no areas" or a number of areas) in the direct vicinity of the facility. However, a map for threatened and endangered species within LANL property is included as Figure B-X.
- Locations of the following activities where such activities are exposed to precipitation:
  - Insert all facility activities exposed to stormwater (e.g., fueling locations; loading/unloading areas; locations used for the treatment, storage, or disposal of wastes; liquid storage tanks; processing and storage areas; machinery; location and sources of run-on to the site; transfer areas for substances in bulk; immediate access roads used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; and vehicle and equipment maintenance and/or cleaning areas. Only include the activity areas specific to the facility (for example, if you do not refuel within the active facility boundary, do not include "fueling locations" in this bulleted list). Use a secondary bullet list level in this section.

### 2.0 POTENTIAL POLLUTANT SOURCES

Industrial activities that could potentially result in releases to the environment are summarized in 2.1 below. The site map for the facility is provided in Figure B-1.

Insert text describing structures and industrial activities that could potentially result in a release to the environment. Include information on location (e.g., inside, outside), associated containment, protection (e.g., roofed areas or coverings), and other devices or practices to prevent or contain spills, prevent run-on and run-off.

### 2.1 Potential Pollutants Associated with Industrial Activity

List specific areas and activities that could potentially result is a release to the environment and the constituents that may be released. Include a list of any Solid Waste Management Units and Areas of Concern (also known as Consent Order Sites or Potential Release Sites) with a description of each and associated potential pollutants/contaminants.

### 2.2 Spills and Leaks

Spills and leaks that occurred after March 1, 2021, the issuance date of the 2021 MSGP, are summarized in Attachment 24. Spills and leaks that occurred prior to March 1, 2021, are documented in previous SWPPP revisions.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert information on spill and leak history at the facility, if any. Text may be in table format as shown below or include this table in Attachment 24 (as stated in the text above).

| Date | Description | Outfall(s) Affected |
|---|---|---|
| | | |
| | | |

Insert information on areas where spills and leaks could occur at the facility. Text may be in table format as shown below.

| Specific Equipment/Industrial Activity Areas and Location | Outfall(s) Affected |
|---|---|
| | |
| | |

In the event of any future spill or leak at any of the facility areas, a spill report, documenting the occurrence and the nature of the spill or leak, will be completed. The spill report will be filed promptly upon completion and documentation of the spill clean-up, and will be summarized in this section of the SWPPP. In addition, spills within MSGP facility boundaries will be entered as conditions requiring corrective action in the MSGP CAR database and will be updated as corrective action occurs, in accordance with EPC-CP-QP-2109, *MSGP Corrective Actions*.

The probability of spills or releases at the facility is minimized by (Insert information on how the facility will minimize spills and leaks).

### 2.3 Unauthorized Non-Stormwater Discharges

Insert information describing any NPDES permitted non-stormwater discharges, unpermitted outfalls, or unauthorized discharges associated with the facility. Describe any potential sources of non-stormwater discharges (e.g., testing of fire hydrants) and where wastewater drains to. Include a reference to the "Non-Stormwater Discharge Assessment and Certification" and indicate that it is provided in Attachment 3.

### 2.4 Salt Storage

Insert text describing salt storage areas at the facility, if present. If none exists, state salt is not stored at the facility.

### 2.5 Historical Data Summary

All Triad sampling data collected at this facility during the previous permit term is contained in prior SWPPP revisions.

The following table provides monitoring data at the facility for the past year.

Permitted Facility: (insert facility name)

Calendar Year (CY) XXXX

Contact MSGP Program Lead to obtain this information formatted for insertion.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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**NOTE:** This information will be updated every year during the annual SWPPP update, to include the 3 most current years of monitoring data. If the current Permit cycle is under 3 years, include the available years of monitoring data.

### 3.0 STORMWATER CONTROL MEASURES

Control measures at the facility are designed to minimize the potential release of pollutants that could adversely affect water quality. Insert text with stormwater control measure information.

#### 3.1 Non-Numeric Technology-Based Effluent Limits

Insert text with non-numeric technology-based effluent limits information. **NOTE**: This is specific to Sectors A, AA, N, O and P.

#### 3.1.1 Minimize Exposure

Insert text describing all structural controls (structures or covers) or practices used to minimize the exposure of industrial activities to precipitation. The SWPPP must describe where the controls or practices are being implemented at the facility. Examples of exposure-minimizing control measures include: location and extent of grading, berms, curbs used to contain contaminated stormwater or divert it around areas of industrial activity, materials stored within secondary containment, location of spill cleanup kits, schedule for employee spill abatement and cleanup training, procedure or practices for storage of leaky vehicles and equipment.

#### 3.1.2 Good Housekeeping

Good housekeeping practices specifically applicable to the prevention of stormwater contamination include the following measures: Insert text describing any practices implemented to keep exposed areas at the facility clean. Describe where each practice is being implemented at the facility. Examples of good housekeeping control measures include how workspaces are maintained; routine inspections of heavy equipment, other equipment and waste containers; inspections of material storage areas; identifying specific personnel/positions responsible for emptying drip pans, etc. Refer to Section 4.1 of this document for specific schedules for waste and recyclable material pickup and sweeping.

All site areas exposed to precipitation are walked down during daily operations and monthly routine facility inspections to ensure that the grounds are kept in an orderly condition. The outdoor metal storage areas are inspected to ensure all piping and metal raw material is off the ground on storage racks and covered, or stored inside buildings, sheds or transportable containers. Vehicle and forklift parking areas are inspected for leaks or spills as well as storage areas containing oil-filled equipment. The entire site, including loading areas and outfalls, are inspected for floatable debris, garbage, waste and all other potential pollutants. All dumpsters and roll-off bins are inspected to ensure they are closed.

#### 3.1.3 Maintenance

Control measures at the facility will be kept in effective operating condition by the implementation of scheduled preventive maintenance, standard operating procedures (SOPs), engineering guidance, and manufacturer's specifications as applicable. If control measures need to be replaced or repaired to maintain compliance with the 2021 MSGP, necessary modifications will be made according to the timelines specified in the *Corrective Action and Deadlines* requirements of Section 6.0 of this SWPPP.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Deficient items identified during routine facility inspections, walk-downs, or by any other means of identification, will be documented on the routine facility inspection forms and entered into the MSGP CAR database. All reasonable steps are taken immediately to address any identified condition requiring corrective action. The condition requiring corrective action will remain open until proper maintenance or corrective action has been completed. CAR information, along with documentation of maintenance/repair of control measures, is in Attachment 9 of the SWPPP.

**NOTE**: "All reasonable steps" means that the permittee has responded to the condition(s) triggering the action, such as, cleaning up any exposed material that may be discharged in a storm event (e.g., through sweeping, vacuuming) or making arrangements (i.e., scheduling) for a new SCMs to be installed."

Insert text identifying how industrial equipment is maintained to avoid leaks or other releases. Also, include information on how site-specific control measures are maintained to ensure effective operating condition.

3.1.4 Spill Prevention and Response

Spills, leaks, or other releases will be prevented and minimized by (insert information on how the facility prevents and minimizes unauthorized releases).

Insert text describing the general facility approach to spill cleanup.

All spills or releases are reported to EPC-CP by using the spills pager (505) 664-7722. Although incidental spills may be cleaned up by facility personnel, all emergency spills or releases are reported to Emergency Management Division-Emergency Response (EMD-ER) and/or the Facility Duty Officer by calling 667-2400. If fire or explosion is present, or if the potential for such exists, the situation must be reported by dialing 911 from a non-cellular phone or by activating a fire pull box. In the event of a spill, EMD-ER will coordinate appropriate cleanup procedures and EPC-CP will notify the individuals or organizations responsible for completing spill reports and providing information needed to fulfill regulatory reporting requirements.

Unauthorized releases or discharges within industrial facility boundaries are entered into the MSGP Corrective Action Reporting database in accordance with EPC-CP-QP-2109, *MSGP Corrective Actions*. In addition, the completion of an Unplanned Release Report is required in the event of a spill. The report will be submitted to EPC-CP personnel and handled according to internal spill record keeping procedures. Spills may be "reportable" (requiring external agency notification) depending on the nature of the spilled material and the location of the release. External agency notification may consist of verbal and/or written notification to the National Response Center, Environmental Protection Agency Region VI, or the New Mexico Environment Department (NMED). EMD-ER, the FOD and EPC-CP, in accordance with Laboratory and DOE policies and federal and state regulatory reporting requirements, will make the determination for the type of reporting required. EPC-DO-QP-0930, *Environmental Reporting Requirements for Releases or Events* is used for this purpose (see Attachment 21).

Copies of internal spill reports are maintained by the responsible organization and in the EPC-CP database. The EPC-CP procedure for spill reporting and response, ENV-CP-QP-1007, *Spill Investigations,* can be found in Attachment 22 of this SWPPP.

3.1.5 Erosion and Sediment Control

Insert text describing how erosion at the facility and sediment transport off the facility is prevented/minimized. Erosion control measures that prevent soil or sediment from becoming mobilized

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should be used as the primary line of defense. Sediment control measures that trap, infiltrate, or settle out mobilized sediments, should be used to back-up the erosion control measures.

3.1.6 Management of Runoff

Insert text describing how the facility manages stormwater runoff. This will include a description of controls used to divert, infiltrate, reuse, contain, or otherwise reduce stormwater runoff. Installed or utilized control measures may be listed with a description of their function at the facility.

3.1.7 Salt Storage Piles or Piles Containing Salt

Insert text describing how the facility manages salt storage piles or piles containing salt. Offloading operations should occur within contained areas with appropriate measures in place to prevent off-site migration or track out of salt from the contained area. Installed or utilized control measures may be listed with a description of their function at the facility. If none exists, state salt is not stored at the facility.

3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials

Insert text describing how the facility manages dust generation and vehicle tracking.

### 3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines

Insert information identifying the facility as meeting or not meeting the industrial category requirements for effluent monitoring as listed in Part 2.1.3 (*Table 2-1 Applicable Effluent Limitation Guidelines*) of the 2021 MSGP and if benchmark monitoring is or is not required.

If the permit does identify sector-specific requirements for the facility as listed in Part 8, insert a description of specific controls implemented at the facility to ensure numeric effluent limits are met.

### 3.3 Water Quality-Based Effluent Limitations and Water Quality Standards

Impaired waters monitoring is performed annually at the facility as listed in Section 4.7 of this SWPPP. The pollutants monitored can change yearly based on the requirements of the MSGP. The table in Section 4.7 lists the current year monitoring requirements and standards.

Stormwater from (insert facility name) discharges to (insert canyon name). Insert information on canyon reaches identified as impaired waters, pollutants causing the impairment, and approved or established TMDLs for the canyon. Also, insert specific information relative to the control measures used to ensure discharges from industrial activities meet the water quality standards.

Refer to Section 4.7 for specific actions that will be taken when a water quality standard is exceeded.

## 4.0 SCHEDULES AND PROCEDURES

Preventative maintenance of control measures used to comply with the Permit effluent limits can avoid situations that result in discharges to the environment. Part 5.2.5 of the 2021 MSGP specifies control measures will have a schedule or frequency for maintenance and procedures specifying how maintenance is conducted. Part 5.5 requires documentation of maintenance and repairs including the date(s) of regular maintenance. See Attachment 10 for the Scheduled Maintenance Log.

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### 4.1 Good Housekeeping

Insert a schedule for housekeeping activities such as waste and recyclable material (scrap metal, wood tires) pickup, street sweeping, etc. and identify any procedures used to ensure this occurs.

### 4.2 Maintenance

Insert a discussion of and schedule for preventative or regular maintenance of equipment such as oil/water separators, culvert clean outs, other control measures, etc. **NOTE**: Industrial equipment will be maintained so that leaks and other releases are avoided. All control measures will be maintained in effective operation condition.

### 4.3 Spill Prevention and Response

Insert a discussion of and schedule for preventing and responding to spills and leaks such as regular maintenance of equipment, placing pans under heavy equipment, and maintaining spill kits. Also, specify cleanup equipment, procedures and spill logs, and identify how often employees are trained in spill response procedures, as appropriate.

### 4.4 Erosion and Sediment Control

Insert a discussion of and schedule for preventative or regular maintenance of erosion, sediment and velocity control measures. If polymers and/or other chemical treatments are used as erosion or sediment control measures, identify them and include a regular schedule for reapplication. Also, include a schedule for restocking these materials to ensure the facility does not run out.

### 4.5 Employee Training

Employee training is essential for effective implementation of the SWPPP and MSGP requirements. The goals for the training program are to ensure that employees: (1) are aware of what happens when pollutants come in contact with stormwater; (2) are familiar with and will implement the requirements of this SWPPP; (3) are capable of preventing spills; (4) respond safely and effectively to an accident when one occurs; (5) recognize when there is an issue with a control measure; (6) recognize when additional control measure are necessary; and (7) identify situations that could lead to stormwater contamination.

Per Part 2.1.2.8 of the 2021 MSGP, training relevant to the SWPPP and MSGP is required for all workers at the facility that work in areas where industrial materials or activities are exposed to stormwater (MSGP sites); workers, managers, and supervisors who are responsible for implementing activities necessary to meet the conditions of this permit (e.g., inspectors, maintenance personnel); and all members of the PPT. Training is designed to ensure these personnel understand the MSGP and SWPPP requirements, as well as their specific responsibilities regarding these requirements.

Training provided and assigned to these personnel cover both the specific control measures used at the facility; along with monitoring, inspection, planning, reporting, and documentation requirements described in this SWPPP. Training will be conducted at least annually. The DEP and Pollution Prevention Team members are responsible for ensuring all appropriate personnel receive this training. It is suggested to add a list of job titles per facility that require training (e.g., Mechanics, Heavy Equipment Operators, PPT members, Operations Manager(s), etc.).

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Training activities are documented in accordance with LANL's Training Standards. In cases where training is formalized enough to require specific curricula and reoccurrence, the training activity will be recorded in LANL's official UTrain database. Informal briefings, such as those included in group safety meetings are not typically recorded in UTrain. In this case, sign-in sheets are used to document attendance. Under the current Management and Operation contract, Triad must manage this information as official use only (OUO), which requires special handling. All training records are managed in accordance with P204-1, *Controlled Unclassified Information.* Information on employees receiving training is available upon request.

The topics in this SWPPP that are covered in the latest version of the facility-specific annual MSGP training (see Attachment 11) include the following:

- Overview of the SWPPP contents;
- Spill response and cleanup procedures, good housekeeping, maintenance requirements, and material management practices to prevent stormwater pollution;
- The location of all controls on the site required by this permit and how they are maintained;
- The proper procedures to follow with respect to the permit's pollution prevention requirements; and
- When and how to conduct inspections, record applicable findings, and take corrective actions.

### 4.6 Routine Facility Inspections and Quarterly Visual Assessments

Routine inspections at this facility are conducted and documented monthly in accordance with EPC-CP-QP-2108, *MSGP Routine Facility Inspections* (Attachment 16).

Visual assessments are conducted in accordance with EPC-CP-QP-2105, *MSGP Stormwater Visual Assessments* (Attachment 18).

#### 4.6.1 Routine Facility Inspections

At least once each calendar year, the routine facility inspection is conducted during a period when a stormwater discharge is occurring. A qualified member of the PPT (typically the DEP, a representative from the EPC-CP Storm Water Permitting/Compliance Team or EPC-CP Program Lead) performs the inspection. The 2021 MSGP consolidates the different and separate documentation requirements in the Comprehensive Site Inspection Procedures and Routine Facility Inspection Procedures from the 2008 MSGP. EPC-CP will perform at least one routine inspection per year in order to evaluate corrective action status for the Annual Report requirements.

Routine inspections will evaluate the following areas, at a minimum:

- Areas where industrial materials or activities are exposed to stormwater;
- Areas identified in the SWPPP and those that are potential pollutant sources;
- Areas where spills and leaks have occurred in the last three years;
- Discharge points (outfalls/substantially identical discharge points (SIDPs); and
- Control measures used to comply with the effluent limits contained in this permit.
- Specific areas of the facility to be inspected are described in Section 2.1.

During routine inspections, the following must be examined and looked for:

- Industrial materials, residue or trash that may have or could come into contact with stormwater;
- Leaks or spills from industrial equipment, drums, tanks and other containers;

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- Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site;
- Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas; and
- Control measures needing maintenance, repairs, or replacement.

Inspections performed by the PPT member are documented by completing the routine facility inspection form, which identifies all conditions requiring corrective action and other potential stormwater pollution issues that were encountered. All conditions requiring corrective actions identified during the inspection are addressed in accordance with Section 6.0 *Corrective Actions and Deadlines* of this plan. Facility personnel or the DEP may also perform daily, weekly, or other periodic facility surveys (walk downs) between monthly routine inspections to ensure compliance with the SWPPP and MSGP. Completed routine facility inspection forms are provided in Attachment 7 of this SWPPP and meet the requirements listed in the 2021 MSGP (Part 3.1.2.).

4.6.2 Quarterly Visual Assessments

Once each quarter, (January-March, April-June, July-September, and October-December) a stormwater sample is obtained and visual assessment performed at each outfall, if a measurable storm event occurred. A qualified member of the PPT (DEP, EPC-CP field team member or MSGP Program Lead) conducts the visual assessment. The visual assessment will be:

- Of a sample in a clean, clear colorless glass or plastic container and examined in a well-lit area;
- On samples collected within the first 30 minutes of an actual discharge from a storm event or as soon as practicable thereafter. Alternatively, document why it was not possible to collect the sample within the first 30 minutes (i.e., adverse conditions, not enough flow, etc.); and
- Conducted at least 72 hours since the last storm event; or document that the 72-hour period is representative of local storm events during the sampling period.

**NOTE:** Snowmelt samples need only be collected during a period of measurable discharge.

The visual assessment will inspect for the following water quality characteristics: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution.

If a visual assessment is not conducted:

- Document rationale if a visual assessment is unable to be collected in a quarter (no precipitation event or adverse conditions, etc.);
- Perform an additional assessment during the next qualifying storm event if unable to perform in a particular quarter; and
- Perform one quarterly assessment during snowmelt discharge (taken during a measurable discharge from the site).

For facilities with SIDPs, quarterly visual assessments may be performed at only one of the outfalls, provided that you perform visual inspections on a rotating basis at each SIDP.

The PPT member performing the visual assessment documents potential stormwater pollution problems that were observed during the assessment on the quarterly visual assessment form. Any required corrective actions identified during the assessment are addressed in accordance with Section 6.0

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*Corrective Actions and Deadlines* of this plan. Completed quarterly visual assessments are provided in Attachment 8 of this SWPPP and meet the requirements listed in the 2021 MSGP (Part 3.2.2).

### 4.7 Monitoring

Analytical monitoring for this site is comprised of Impaired Waters and [insert quarterly benchmark, indicator parameter (see Table 4-1 of the 2021 MSGP), and/or Effluent Limitation Guideline (for example for the Asphalt Batch Plant)] monitoring for industrial activity identified in Table 4-1 of the 2021 MSGP. Monitoring occurs when storm events result in an actual discharge from the site and follow the preceding measurable storm event by at least 72 hours (3 days), unless documented that the storm event is representative of local storm events during the sampling period. For runoff from snowmelt, the monitoring is performed at a time when a measurable discharge from the site occurs.

Monitoring is conducted according to test procedures approved under 40 CFR Part 136. Runoff samples are collected by taking a minimum of one grab sample from a discharge, collected within the first 30 minutes of a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of a measurable storm event, the sample is collected as soon as practicable after the first 30 minutes and documentation is kept with the SWPPP explaining why it was not possible.

LANL is located in a high elevation, semi-arid climate where the majority of rainfall occurs during a period between July and September. Freezing conditions that would prevent runoff from occurring for extended periods may also occur during the winter months. If adverse weather conditions prevent the collection of a sample according to the relevant monitoring schedule, a sample will be collected during the next qualifying storm event or as soon as practicable.

Monitoring occurs at automated sampling station **[insert automated sampler identifier (e.g., MSGP07501)]** as identified in Section 1.5. Discharge from the facility is (insert cardinal direction) to (insert canyon name) (impaired waters), which is a tributary of the Rio Grande located approximately X miles east of the facility.

Outfall (insert substantially identical discharge point identification number) is "substantially identical" to Outfall (insert monitored outfall identification number) based on (insert the following information: industrial activities conducted in the drainage area, description of control measures implemented in the drainage area of each outfall, description of exposed material located in the drainage area of each outfall that are likely to be significant contributors of pollutants to stormwater discharges, and an estimate of the runoff coefficient of the drainage areas). Outfall locations are shown on the site map provided in Figure B-1. **NOTE**: Delete this paragraph if the facility has no substantially identical discharge points. If the facility has multiple maps, reference them all.

For impaired waters pollutants, monitoring is required annually in the first and fourth year of permit coverage. If any pollutant associated with the impairment is detected, annual monitoring will continue. If the impaired water or benchmark constituent value exceeds the New Mexico Water Quality criterion (insert or ELG value is exceeded, if applicable), the Pollution Prevention Team will:

- Review the selection, design, installation, and implementation of control measures to determine if modifications are necessary to meet the effluent limits;
- Implement the necessary modifications within the timeframe specified for corrective action; and
- Continue benchmark or annual monitoring of the constituent (as required by Part 4.2.5 of the 2021 MSGP);

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- If an ELG is exceeded, follow-up monitoring within 30 calendar days (or during the next qualifying runoff event) of implementing corrective action(s) is required. When follow-up monitoring exceeds the applicable effluent limitation, an exceedance report is submitted to EPA and monitoring continues at least quarterly, until the discharge complies with the effluent limit.

For each monitoring event, except snowmelt monitoring, the following information will be recorded and maintained through work orders, LANL database systems, and Discharge Monitoring Records:

- The date, exact place, and time of sampling or measurements;
- The date and duration (in hours) of the rainfall event
- Rainfall total (in inches) for that rainfall event
- The individual(s) who performed the sampling or measurements;
- The date(s) analyses were performed
- The individual(s) who performed the analyses;
- The analytical techniques or methods used; and
- The results of such analyses.

All records of monitoring information, including all calibration and maintenance records are maintained for a minimum period of at least three years from the date the permit expires.

LANL's applicable stormwater monitoring procedures can be found in the following Attachments:

- EPC-CP-QP-2103, *Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP* (Attachment 19)
- EPC-CP-QP-2106, *Processing MSGP Stormwater Samples* (Attachment 20).

The table on the following page lists the current Summary of Monitoring Requirements. The monitoring values have been modified to reflect New Mexico water quality standards and are based on the most protective water quality standards from the Standards for Interstate and Intrastate Surface Waters (effective on February 28, 2018), 20.6.4.900 NMAC; and as set forth in Part 9.6.2.2 of the 2021 MSGP.

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**Required Monitoring for CY XXXX**

Outfalls: (insert outfall numbers)

Contact MSGP Program Lead to obtain this information formatted for insertion.

| Monitoring Requirement | Industrial Sector | Assessment Unit | Analyte | Filtered/ Unfiltered | Regulatory Standard | Units | Regulatory Standard Type | Regulatory Standard Reference |
|---|---|---|---|---|---|---|---|---|
| Impaired Waters | - | NM-128.A_01 | Adjusted Gross Alpha | UF | 15 | pCi/L | NM 2010 Livestock Watering | 20.6.4.900 NMAC Subpart J |
| Annual | - | - | PFOA+ PFOS | - | 0.07 | ug/L | - | - |
| Indicator Parameters | P | COD, TSS, and pH | | | | | | |
| Quarterly Benchmark | P | No Benchmark Monitoring Required | | | | | | |

NM=New Mexico
UF=Unfiltered
pCi=Picocurie
L=Liter
NMAC=New Mexico Administrative Code
PFOA=Perfluorooctanoic Acid
PFOS=Perfluorooctane Sulfonate
COD=Chemical Oxygen Demand
TSS=Total Suspended Solids

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### 5.0 DOCUMENTATION FOR ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

#### 5.1 Endangered Species

The Final Site-Wide Environmental Impact Statement (EIS) for the Operation of Los Alamos National Laboratory (DOE/EIS-0380) was issued in May 2008, and a Record of Decision in September 2008. Stormwater issues and associated pollution prevention requirements and activities at LANL are analyzed in Chapters 4 and 5 of the 2008 Site-Wide EIS. These activities are integrated into environmental reviews on a project-specific level through LANL's Integrated Review Tool (IRT), which incorporates both the Excavation Permit (EX-ID) and Permit Requirements Identification (PR-ID) process. Stormwater issues are identified, and pollution prevention activities are implemented during the design and construction phases of all LANL projects, and as part of facility operations, including routine maintenance. LANL staff monitors stormwater pollution prevention compliance at MSGP sites in accordance with Section 4.7 *Monitoring* of this plan. Corrective actions are taken as necessary as described in Section 6.0 *Corrective Actions and Deadlines* of this plan.

Part 2.3 of the 2021 MSGP requires areas of designated critical habitat for endangered or threatened species, as applicable, be included in the SWPPP. The *Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory* (LA-UR-22-20556) was last updated in January 2022 (see Attachment 13). This document provides a management strategy for the protection of threatened and endangered species and their habitats on LANL property. The MSGP IPaC Trust Resource Report (see Attachment 14) is also attached for informational purposes.

#### 5.2 Historic Properties

In April 2021, August 2015 and December 2008, the Cultural Resources Team (using GPS spatial data as well as conducting visual inspections), reviewed the active Laboratory industrial sites (see list below) and their associated outfalls and monitoring stations subject to the 2021 Multi-Sector General Permit (Permit #NMR050013 MSGP 2021) for effects on historic properties. All of these sites were found to be undertakings of no effect and in compliance with Section 106 of the National Historic Preservation Act (i.e., Criterion B).

- TA-9-0214 Metals Fabrication Shop
- TA-3-0038 Metals Fabrication Shop
- TA-16 Stockpile Area
- TA-60 Asphalt Batch Plant
- TA-60-0001 Heavy Equipment Yard
- TA-60 Material Recycle Facility
- TA-60 Roads and Grounds
- TA-60-0002 Warehouse

### 6.0 CORRECTIVE ACTIONS AND DEADLINES

When any of the following conditions occur or are detected during an inspection, monitoring or any other means, this SWPPP [e.g., sources of pollution; spill and leak procedures; non-stormwater discharges; the selection, design, installation and implementation of control measures; Level, 1, 2, or 3 additional implementation measures (AIM)] is reviewed and revised (as appropriate).

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- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the U.S.) occurs at the facility;
- A discharge violates a numeric effluent limit;
- SCMs are not stringent enough for stormwater discharge to be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards or to meet the non-numeric effluent limits in the permit;
- An inspection identifies that a required control measure was never installed, was installed incorrectly or is not being properly operated or maintained; and
- Whenever a visual assessment shows evidence of stormwater pollution.

When any of the following conditions occur, a review of the selection, design, installation, and implementation of control measures is performed to determine if modifications are necessary to meet the effluent limits in this permit:

- Construction or a change in design, operation, or maintenance at the facility significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged; or
- The average of 4 quarterly sampling results exceeds an applicable benchmark. If less than 4 benchmark samples have been taken, but the results are such that an exceedance of the 4 quarter average is mathematically certain (i.e., if the sum of quarterly sample results to date is more than 4 times the benchmark level) this is considered a benchmark exceedance, triggering this review (see Section 4.2); or
- If an impaired water constituent exceeds the NM Water Quality criterion (see Section 4.7).

If any of the AIM triggering events (i.e., an annual average exceeds an applicable benchmark threshold) in Parts 5.2.3, 5.2.4, or 5.2.5 occur, PPT members must follow the response procedures described in those parts, called "additional implementation measures" or "AIM." There are three AIM levels: AIM Level 1, Level 2, and Level 3. PPT members must respond, as required, to different AIM levels which prescribe sequential and increasingly robust responses when a benchmark exceedance occurs. The corresponding AIM level responses and deadlines described in Parts 5.2.3.1, 5.2.3.2, 5.2.4.1, 5.2.4.2, 5.2.5.1 and 5.2.5.2 must be followed unless the facility qualifies for an exception under Part 5.2.6.

When the review identifies the need to modify the SWPPP, it will be revised within 14 calendar days of completion of the associated condition requiring corrective action.

### 6.1 Immediate Actions

When a condition requiring corrective action is identified, all reasonable steps necessary to minimize or prevent the discharge of pollutants are immediately taken (i.e., spill clean-up, scheduling repairs) until a permanent solution (if needed) can be implemented. Immediate action means all reasonable steps are taken the same workday or no later than the following workday (when it is too late in the day to take corrective action).

### 6.2 Subsequent Actions

When additional corrective actions are required (e.g., installing or making operational a new or modified control, completing repairs, ordering BMPs) they will be completed by the next storm event, if possible, or within 14 calendar days (from initial discovery). When it is determined that it is infeasible to complete corrective actions within 14 days, documentation of infeasibility and a schedule for completion of the work is documented in the CAR database, which will be completed no later than 45 days (from initial

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discovery). When it is determined that corrective actions will exceed 45 days, EPA is notified and provided justification of why actions will exceed the timeframe; and a minimal amount of additional time to complete the work may be approved.

### 6.3 AIM Baseline Status and Triggering Events

Once the facility is authorized to discharge under the MSGP, it is considered to be in a baseline status for all applicable benchmark parameters required by that facility to be monitored. If an AIM triggering event occurs, the facility may return directly to baseline status once the corresponding AIM-level response and conditions are met.

An annual average exceedance for a benchmark parameter can occur if: 1) The four-quarter annual average for a parameter exceeds the benchmark threshold, or 2) Fewer than four quarterly samples are collected, but a single sample or the sum of any sample results within the sampling year exceeds the benchmark threshold by more than four times for a parameter.

#### 6.3.1 AIM Level 1

When an annual average exceeds an applicable benchmark threshold, the PPT must immediately review the MSGP SWPPP and the selection, design, installation, and implementation of SCMs to ensure the effectiveness of existing measures and determine if modifications are necessary to meet the benchmark threshold for the parameter that exceeded.

**NOTE**: An AIM triggering event is outfall and parameter specific. After reviewing the SWPPP, additional measures, considering good engineering practices, will be implemented, that will reasonably be expected to bring the exceedance below the parameter's benchmark threshold.

**NOTE**: If it is determined that nothing further is required to bring the exceedance below the parameter's benchmark threshold for the next 12-month period, document this in the MSGP Corrective Action Reporting (CAR) database.

All modifications and additional control measures required in response to AIM Level 1 will be implemented within 14 days of identification of an AIM Level 1 exceedance. If doing so within 14 days is infeasible, documentation is entered into the MSGP CAR database as to why it is infeasible. Completion of the response must occur within 45 days.

**NOTE**: There is no provision in the 2021 MSGP for exceeding the 45-day time frame for response to AIM Level 1.

An additional four quarters of Benchmark monitoring will occur at the outfall where the parameter exceeded the benchmark threshold for AIM Level 1. This monitoring will begin no later than the next full quarter after all responses and deadlines required by AIM Level 1 have been completed. After four quarters of monitoring, the parameter will either return to baseline (see Section 6.3) if it does not exceed the same benchmark threshold or, another annual average exceeds the benchmark threshold causing the facility to move to AIM Level 2.

#### 6.3.2 AIM Level 2

When a second benchmark threshold exceedance occurs at an outfall, the PPT will review the SWPPP and implement additional pollution prevention/good housekeeping SCMs, (considering good engineering practices), beyond those implemented in response to AIM Level 1.

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Additional control measures required in response to AIM Level 2 will be implemented within 14 days of identification of the AIM Level 2 exceedance. If it is feasible to implement a measure, but not within 14 days, facility personnel may take up to 45 days to implement the measure. In this case, documentation will be entered into the MSGP CAR database identifying why it was infeasible to implement the control measure within 14 days. EPA may grant an extension beyond 45 days, based on an appropriate demonstration by the operator.

An additional four quarters of benchmark monitoring will occur at the outfall where the parameter exceeded the benchmark threshold for AIM Level 2. This monitoring will begin no later than the next full quarter after all responses and deadlines required by AIM Level 2 have been completed. After four quarters of monitoring, the parameter will either return to baseline (see Section 6.3) if it does not exceed the same benchmark threshold or, the parameter continues to exceed the benchmark threshold causing the facility to move to AIM Level 3.

#### 6.3.3 AIM Level 3

When a third benchmark threshold exceedance occurs at an outfall, facility personnel will install structural source controls (e.g., permanent controls such as permanent cover, berms, and secondary containment), and/or treatment controls (e.g., sand filters, hydrodynamic separators, oil-water separators, retention ponds, and infiltration structures). The controls, treatment technologies, or treatment train installed will be appropriate for the pollutant that triggered AIM Level 3, will be sufficient to bring the exceedance below the benchmark threshold and, will be more rigorous that the SCMs implemented under AIM Level 2. These controls will be installed for the outfall that exceeded the benchmark threshold and SIDPs, unless monitoring of the SIDPs demonstrates AIM Level 3 requirements are not triggered at those discharge points.

A schedule for installing the structural source and/or treatment SCMs will be identified and documented in the MSGP CAR database within 14 days. Control measures in response to AIM Level 3 will be installed within 60 days unless it is not feasible to install them within 60 days. In this case, up to 90 days can be taken provided justification identifying why it is infeasible to install the measure within 60 days is documented in the MSGP CAR database. EPA may grant an extension beyond 90 days, based on an appropriate demonstration by the operator.

An additional four quarters of benchmark monitoring will occur at the outfall where the parameter exceeded the benchmark threshold for AIM Level 3. This monitoring will begin no later than the next full quarter after all responses and deadlines required by AIM Level 3 have been completed. After four quarters of monitoring, the parameter will either return to baseline (see Section 6.3) if it does not exceed the same benchmark threshold or, the facility will remain in AIM Level 3 and EPA may require the facility to apply for an individual permit.

#### 6.3.4 AIM Exceptions

Any AIM Level exceedance may qualify for an exception from specific AIM requirements and continued benchmark monitoring after four quarters of monitoring, provided the requirements to demonstrate qualification of the exception are followed (see Parts 5.2.6.1 through 5.2.6.5 of the permit). These exceptions include the following for benchmark exceedances: 1) Solely attributable to natural background pollutant levels; 2) Due to run-on; 3) Due to an abnormal event; 4) Demonstrated to not

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result in an exceedance of facility-specific value using the national recommended water quality criteria in-lieu of the applicable MSGP benchmark threshold (for aluminum and copper benchmark parameters only); or 5) Demonstrated to not result in any exceedance of water quality standards.

**NOTE**: There are very specific and complicated documentation requirements and time frames that have to be met to qualify for any of these exceptions. Therefore, any demonstration to qualify for an exception will be coordinated through a representative of the EPC-CP Stormwater Permitting/Compliance Team.

### 6.4 Corrective Action and AIM Documentation

Upon discovery, conditions requiring corrective action are documented by the DEP or EPC-CP on a Routine Facility Inspection Form and/or entered into the CAR database. The action will be kept open in the database until the issue has been resolved. Documentation of maintenance and repairs of SCMs (also known as Best Management Practices or BMPs) will be kept in Attachment 10 of this SWPPP. Where corrective actions result in changes to procedures or controls documented in this SWPPP, modifications to the SWPPP are made accordingly within 14 calendar days of completing the corrective action(s). LANL procedure EPC-CP-QP-2109, *MSGP Corrective Actions* can be found in Attachment 17.

Any AIM Level triggering event will conform to the requirements and time frames provided in Sections 6.3 and 6.3.1 through 6.3.4.

### 7.0 ACRONYMS

| | |
|---|---|
| AIM | Additional Implementation Measures |
| BMP | Best Management Practice |
| CAR | Corrective Action Report |
| DEP | Deployed Environmental Professional |
| DESH | Deployed Environmental Safety and Health |
| DOE | Department of Energy |
| EIS | Environmental Impact Statement |
| ELG | Effluent Limitation Guidelines |
| EMD-ER | Emergency Management Division-Emergency Response |
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs |
| FOD | Facility Operations Division |
| IPaC | Information for Planning and Consultation |
| LANL or the Laboratory | Los Alamos National Laboratory |
| MSGP or Permit | Multi-Sector General Permit |
| NOI | Notice of Intent |
| NPDES | National Pollutant Discharge Elimination System |
| OUO | Official Use Only |

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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| | |
|---|---|
| PAH | Polyaromatic Hydrocarbons |
| PPT | Pollution Prevention Team |
| SCM | Stormwater Control Measures |
| SIDP | Substantially Identical Discharge Point |
| SWPPP | Stormwater Pollution Prevention Plan |
| URL | Uniform Resource Locator |

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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### 8.0 SWPPP CERTIFICATION

**STORMWATER POLLUTION PREVENTION PLAN**
**(Insert Facility Name)**
Los Alamos National Laboratory

**CERTIFICATION STATEMENT**

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 gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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.

**(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr., EPC Group or Team Leader)**

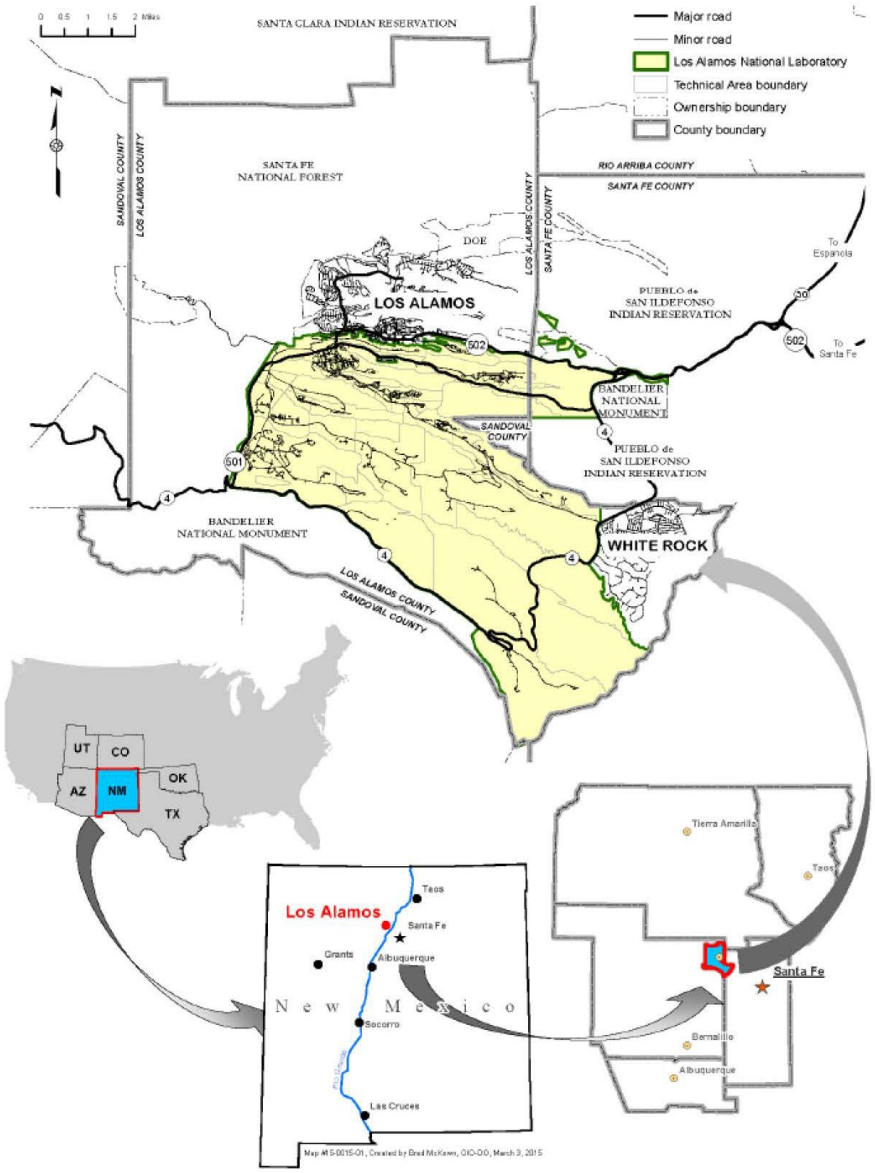
Signature_____ Date_____
(Insert Printed Name)
(Insert Title)

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**FIGURE A: GENERAL LOCATION MAP**



## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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**FIGURE B: MAP(S)**

Label the figures as Figure B-1, Figure B-2, etc.

Insert maps in the following order:

- Facility specific site map(s),
- Receiving waters maps, and
- Threatened Endangered Species Map.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 1: NOTICE OF INTENT, SUPPORTING DOCUMENTATION, AND UPDATES**

Insert the appropriate attachment and supporting documentation. **NOTE**: There may be several "Change NOIs" submitted to EPA within a permit term. Contact the MSGP Program Lead to ensure all are included in this attachment.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 2: SWPPP AMENDMENTS**

Insert text documenting all changes or updates made to the SWPPP. Text may be in table format as shown below.

| Date | Plan Section | Reason for Amendment | Amendment |
|---|---|---|---|
| | | (e.g., 2021 MSGP was published on March 1, 2021, requiring a SWPPP update.) | (e.g., Plan revised to reflect new permit requirements.) |
| | | | |

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 31 of 53)



**ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES**

Insert the appropriate attachment.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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**ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM**

Insert the appropriate attachment.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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**ATTACHMENT 5: DISCHARGE MONITORING REPORTS**

Insert the discharge monitoring reports for the current permit term.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 6: ANNUAL REPORTS**

Insert the annual reports for the current permit term. The MSGP Program Lead provides these.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS**

Insert completed Routine Facility Inspection forms for the current permit term.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS**

Insert completed Quarterly Visual Assessment forms for the current permit term. EPC-CP provides these by e-mail as they are certified.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION**

Contact the EPC-CP MSGP Program Lead for an excel spreadsheet of all corrective actions and a certification statement for signature.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
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**ATTACHMENT 10: SCHEDULED MAINTENANCE LOG**

### SCHEDULED MAINTENANCE LOG

| Date | Control Measure or Equipment Description (include location where appropriate) | Action Taken/Comments | Action Taken By (printed name & Z no.) |
|---|---|---|---|
| | | | |
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## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 11: TRAINING DOCUMENTATION**

Information on employees receiving training is available upon request. Insert briefing or presentation.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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**ATTACHMENT 12: MSGP (OR ACTIVE URL)**

Either insert a copy of the most current permit, or insert the URL address (see example below).

A copy of the 2021 MSGP is kept on file with the SWPPP in hard copy.

The active URL for the permit is https://www.epa.gov/npdes/final-2021-msgp-documents

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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**ATTACHMENT 13: THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR LOS ALAMOS NATIONAL LABORATORY**

Insert the most current revision of the management plan for LANL.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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**ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT**

Contact the EPC-CP MSGP Program Lead for this information formatted for insertion.

***NOTE:*** The Permit requires this information. However, LANL EPC-ES has completed consultation with U.S. Fish and Wildlife Service. Letters of Consultation are contained in the NOI (see Attachment 1). Refer to Attachment 13 for the species habitat management plan.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 15: EPC-CP-PIP-2101, *NPDES MULTI-SECTOR GENERAL PERMIT***

Insert the most current revision of the plan into this SWPPP.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 16: EPC-CP-QP-2108, *MSGP ROUTINE FACILITY INSPECTIONS***

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 17: EPC-CP-QP-2109, *MSGP CORRECTIVE ACTIONS***

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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**ATTACHMENT 18: EPC-CP-QP-2105, *MSGP STORMWATER VISUAL ASSESSMENTS***

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 19: EPC-CP-QP-2103, *INSPECTING STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP***

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 20: EPC-CP-QP-2106, *PROCESSING MSGP STORMWATER SAMPLES***

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 21:** **EPC-DO-QP-0930, *ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS***

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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**ATTACHMENT 22: EPC-CP-QP-1007, *SPILL INVESTIGATIONS***

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 23:** **EPC-CP-QP-2110, *MSGP STORMWATER POLLUTION PREVENTION PLAN PREPARATION AND MAINTENANCE***

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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Insert Facility Name
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**ATTACHMENT 24: SPILL LOG**

Insert a table containing the date, spill location, spilled substance, quantity, corrective action, and outfall affected if a table of spills and leaks is placed here. Delete section if not needed.

## Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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**ATTACHMENT 25: LOCAL PROCEDURE**

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP. Change LOCAL PROCEDURE to the actual title of the procedure inserted here. Delete section if not needed. If more than one procedure is added, add additional attachment headers and name them the same way consecutively.

## Attachment 2: MSGP SWPPP Review Guidance Checklist Example

(Page 1 of 11)

MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | COMMENT | RESOLUTION |
|---|---|---|
| **Stormwater Pollution Prevention Team** | | |
| Is the SWPPP being developed or updated by a qualified person? | | |
| Does the SWPPP list Stormwater Pollution Prevention Team members (by name or title) and each individual's responsibilities? | | |
| Is a copy of the SWPPP immediately available at the site and on-line? | | |
| **Contents of the SWPPP** | | |
| If the SWPPP refers to procedures or other documents, are copies of the relevant portions of these procedures or documents present in the SWPPP? | | |
| **Site Description** | | |
| **Does the SWPPP include the following information?** | | |
| • Identify a description of the nature of the industrial activities at the site | | |
| Provide a general location map (e.g., U.S. Geological Survey (USGS) quadrangle map) with enough detail to identify the location of the site and all receiving waters for industrial stormwater discharges. | | |
| **Site map showing the following:** | | |
| • Boundaries of the property and size of the property in acres | | |
| • Location and extent of significant structures and impervious surfaces | | |
| • Direction(s) of stormwater flow and site drainage (using arrows) | | |
| • Locations of **all** stormwater control measures | | |
| • Locations of all receiving waters, including wetlands, in the immediate vicinity of the site. Indicate which water bodies are listed as impaired and which are identified as Tier 2, Tier 2.5, or Tier 3 waters (for LANL, none) | | |
| • Locations of all stormwater conveyances including ditches, pipes, and swales | | |
| • Locations of potential pollutant sources associated with each industrial activity (see Part 6.2.3.2) that could be exposed to rainfall or snowmelt and could be discharged from the site | | |
| • Locations where significant spills or leaks have occurred (see Part 6.2.3.3) | | |
| • Location(s) of all stormwater monitoring points | | |
| • Location of each stormwater inlet and outfall, with a unique identification code for each outfall (i.e., 001, 002, 003, etc.), indicating if you are treating one or more outfalls as "substantially identical" (see Parts 3.2.4.5, 6.2.5.3, and 4.1.1) | | |
| • If applicable, location of the MS4 and where your stormwater discharges to it. ***NOTE:*** Although LANL does not currently have an MS4, EPA has published a draft permit | | |
| • Areas of designated critical habitat for endangered or threatened species | | |
| • Locations of the following activities where such activities are exposed to precipitation: | | |

## Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 2 of 11)

MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | COMMENT | RESOLUTION |
|---|---|---|
| - Fueling station(s) | | |
| - Vehicle and equipment maintenance and/or cleaning area | | |
| - Loading/unloading areas | | |
| - Locations used for the treatment, storage, or disposal of wastes | | |
| - Liquid storage tanks | | |
| - Processing and storage areas | | |
| - Immediate access roads used by carriers of raw materials, manufactured products, waste material, or by-products used or created by the site | | |
| - Transfer areas for substances in bulk | | |
| - Machinery | | |
| - Locations and sources of run-on to the site from adjacent property that contains significant quantities of pollutants | | |
| **Potential Pollutant Sources** | | |
| Are areas described in the SWPPP where industrial material or activities are exposed to stormwater or from which allowable non-stormwater discharges originate?<br>***NOTE 1:*** *Industrial material or activities* include material handling equipment or activities; industrial machinery; raw material; industrial production and processes; and intermediate products; by-products; final products, and waste products. *Material handling activities* include the storage, loading and unloading, transportation, disposal or conveyance of any raw material, intermediate product, final product or waste product. | | |
| Are all pollutants or pollutant constituents (e.g., zinc, sulfuric acid, cleaning solvents, motor oil, diesel, gasoline, brake fluid, etc.) associated with each activity identified?<br>***NOTE 2:*** The list must include all pollutants/materials that have been handled, treated, stored, or disposed and that have been exposed to stormwater in the three years prior to the date the SWPPP is prepared or amended. | | |
| Are areas where **potential** spills and leaks could occur that could contribute pollutants to stormwater discharges and the corresponding outfall(s) that would be affected by such spills and leaks identified in the SWPPP? | | |
| Are all significant spills and leaks of oil or toxic or hazardous substances identified that **actually occurred** at exposed areas, or that drained to a stormwater conveyance, in the three years prior to the date the SWPPP was prepared or amended? | | |
| **Has an evaluation for the presence of unauthorized non-stormwater discharges (see Part 6.2.3.4) been done and does it include the following information?** | | |
| • Date of the evaluation | | |
| • A description of the evaluation criteria used | | |

## Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

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MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | COMMENT | RESOLUTION |
|---|---|---|
| • A list of the outfall or onsite drainages points that were directly observed during the evaluation | | |
| • The action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), or documentation that a floor drain was sealed, re-routed to sanitary, or an NPDES permit application was submitted for an unauthorized cooling water discharge | | |
| Is there documentation of the location of any salt storage piles used for deicing or other commercial or industrial purposes? | | |
| Is all stormwater discharge sampling data collected at the site during the precious permit term summarized in a narrative description? This may include data tables and figures. | | |
| **Control Measures to Meet Effluent Limits** | | |
| **Does the SWPPP indicate whether the following control measure selection and design criteria were considered?** | | |
| • Preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater | | |
| • Using control measures in combination which may be more effective than using control measures in isolation for minimizing pollutants in stormwater discharge | | |
| • Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures that will achieve the limits in this permit | | |
| • Minimizing impervious areas at the facility and infiltrating runoff onsite (including bio-retention cells, green roofs, and impervious pavement, among other approaches) can reduce runoff and improve ground water recharge and stream base flows in local streams, although care must be taken to avoid ground water contamination | | |
| • Attenuating flow using open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows | | |
| • Conserving and/or restoring riparian buffers will help protect streams from stormwater runoff and improve water quality | | |
| • Using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants. | | |
| Implementing structural improvements, enhanced/resilient pollution prevention measures, and other mitigation measures to minimize impacts from stormwater discharges from major storm events and flood events (see Part 2.1.1.8). | | |
| Does the SWPPP indicate how the control measure addresses the potential pollutant sources? | | |
| **Are the selection and design considerations for control measures to meet the following non-numeric technology-based effluent limits (see Part 2.1.2) identified in the SWPPP?** | | |

## Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 4 of 11)

MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | COMMENT | RESOLUTION |
|---|---|---|
| • **Minimize Exposure:** All manufacturing, processing and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) must have controls that minimize exposure to pollutant discharges by either locating these industrial materials and activities inside or protecting them with storm resistant coverings. | | |
| - Use grading, berming or curbing to prevent runoff of contaminated flows and divert run-on away from these areas; | | |
| - Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge; | | |
| - Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants; | | |
| - Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents; | | |
| - Use spill overflow protection equipment; | | |
| - Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray; and | | |
| - Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks. | | |
| • **Good housekeeping** (all areas where potential pollutants are exposed to stormwater must be kept clean). | | |
| - Sweep or vacuum at regular intervals or wash down the area and collect and/or treat and properly dispose of the washdown water. | | |
| - Store materials in appropriate containers. | | |
| - Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment). Part 1.2.2 of the permit does not authorize dry weather discharges from dumpsters or roll off boxes.* | | |
| * You may include extra information, or you may just "cut-and-paste" these effluent limits verbatim into the SWPPP w/out providing additional documentation. | | |
| - Minimize the potential for waste, garbage, and floatable debris to be discharged by keeping exposed areas free of such materials. | | |
| • **Maintenance** (All industrial equipment, systems and control measures must be maintained in effective operating condition in order to minimize pollutant discharges). | | |
| Perform inspections and preventive maintenance of stormwater drainage, source controls, treatment systems, and plant equipment and systems that could fail and result in contamination of stormwater. | | |

## Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 5 of 11)

MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | COMMENT | RESOLUTION |
|---|---|---|
| - Diligently maintain non-structural control measures (e.g., keep spill response supplies available, and personnel appropriately trained). | | |
| - Inspect and maintain baghouses at least quarterly to prevent the escape of dust from the system and immediately removing any accumulated dust at the base of the exterior baghouse.* | | |
| - Cleaning catch basins when the depth of debris reached two thirds (2/3) of the sump depth and keeping the debris surface at least six inches below the lowest outlet pipe.* | | |
| Does the SWPPP contain language indicating immediate action must be taken to minimize pollutant discharges if control measures need routine maintenance? | | |
| Is there language in the SWPPP indicating in instances where control measures need repair or replacement that the facility (or associated representatives thereof) must immediately take all reasonable steps (see Part 5.1.3.1 for definition) to prevent or minimize the discharge of pollutants until the final repair or replacement is implemented, including cleaning up any contaminated surfaces so that the material will not be discharged during subsequent storm events. Final repairs/replacement of stormwater controls should be completed as soon as feasible but must be no later than the timeframes established in Part 5.1 for corrective actions, i.e., within 14 days or, if that is infeasible, within 45 days. | | |
| Is there language in the SWPPP indicating corrective action must be taken (in accordance with Part 5.1) if a control measure was never installed, was installed incorrectly or not in accordance with Parts 2 and/or 8, or isn't being properly operated or maintained? | | |
| • **Spill Prevention and Response** - The potential for leaks, spills, and other release must be minimized by the development of plans for effective response to such spills if or when they occur in order to minimize pollutant discharges. | | |
| - Plainly label containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur.* | | |
| - Implement procedures for material storage and handling including use of secondary containment and barriers between material storage and traffic areas. | | |
| - Develop training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases as soon as possible. | | |
| - Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made. | | |
| - Notify appropriate facility personnel when a leak, spill, or other release occurs. Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR part 302, occurs during a 24-hour period, you must notify the National Response | | |

## Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

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MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | COMMENT | RESOLUTION |
|---|---|---|
| Center (NRC) at (800) 424-8802 in accordance with the above referenced requirements as soon as you have knowledge of the discharge. | | |
| - In the event of a spill, does the SWPPP indicate where the contact information is so that it is readily accessible and available? | | |
| • **Erosion and Sediment Controls** | | |
| - Does the SWPPP identify how exposed soils will be stabilized to minimize pollutant discharges? | | |
| - Does the SWPPP identify flow velocity dissipation devices placed at discharge locations to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points? | | |
| - Does the SWPPP identify structural and non-structural control measure to minimize the discharge of sediment? | | |
| - If polymers and/or other chemical treatments are used for dust control or stabilization, does the SWPPP must identify the polymers and/or chemicals used and the purpose? | | |
| • **Management of Runoff** - Does the SWPPP identify how stormwater runoff is diverted, infiltrated, reused, contained, or otherwise reduced to minimize pollutants in the discharge? | | |
| • **Salt Storage Piles or Piles Containing Salt** - Does the SWPPP identify how salt piles are enclosed or covered? | | |
| - Are controls in place to minimize exposure to stormwater resulting from adding to or removing materials from the salt pile? | | |
| • **Non-Stormwater Discharges** - Does the SWPPP indicate that personnel will evaluate the site for non-stormwater discharges not explicitly authorized in Part 1.2.2 or covered by another NPDES permit and eliminate the discharge?) | | |
| • **Dust Generation and Vehicle Tracking of Industrial Materials** - Does the SWPPP indicate dust generation and off-site tracking of raw, final, or waste materials must be minimized in order to minimize pollutant discharges?) | | |
| **Control Measures to Meet Numeric Effluent Limitations Guidelines-Based Limits (see Part 2.1.3 and Part 8)** | | |
| Are effluent limitations identified for the Sector D facility (Asphalt Paving) (see Part 8.D.5)? | | |
| **Control Measures to Meet Water Quality Based Effluent Limits (see Part 2.2 and Part 9.6.2)** | | |
| Are the benchmark values (i.e., the Lowest New Mexico Water Quality Standard) listed in MSGP Section 9.6.2.2 identified in the SWPPP? | | |
| **Schedules and Procedures - Control Measures** | | |
| Does the SWPPP contain a schedule or convention used for determining when pickup or disposal of waste materials occurs? | | |

## Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 7 of 11)

MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | COMMENT | RESOLUTION |
|---|---|---|
| Are preventative maintenance procedures (including regular inspections, testing, maintenance and repair) for all control measures included in the SWPPP to avoid situations that may result in leaks, spills, and other releases? | | |
| Are backup practices in place should a runoff event occur while a control measure is off line? | | |
| Is there a schedule or frequency for maintaining all control measures? | | |
| Are procedures included in the SWPPP for preventing and responding to spills and leaks, including notification procedures? | | |
| Are control measures for material handling and storage identified? | | |
| Are clean-up equipment, procedures and spill logs (i.e., reportable and non-reportable spill reports and the MSGP Corrective Action Reporting database) identified? | | |
| **Schedules and Procedures - Employee Training** | | |
| **Are the following employees identified as requiring training?** Information to be managed in accordance with P204-1, *Controlled Unclassified Information* and only available upon request. | | |
| • Personnel who are responsible for the design, installation, maintenance and/or repair of controls (including pollution prevention measures) | | |
| • Personnel responsible for the storage and handling of chemicals and materials that could become contaminants in stormwater discharges | | |
| • Personnel who are responsible for conducting and documenting monitoring and inspections | | |
| • Personnel who are responsible for taking and documenting corrective actions | | |
| **Are the following identified as elements of required training?** | | |
| • An overview of what is in the SWPPP | | |
| • Spill response procedures, good housekeeping, maintenance requirements, and material management practices | | |
| • The location of all controls on the site required by this permit and how they are to be maintained | | |
| • The proper procedures to follow with respect to the permit's pollution prevention requirements | | |
| • When and how to conduct inspections, record applicable findings, and take corrective actions | | |
| **Are the following elements of the training plan documented?** | | |
| • Content of the training | | |
| • Frequency/schedule of training | | |
| Are records of completed training kept in accordance with LANL OUO guidelines? | | |
| **Schedules and Procedures - Inspections and Assessments** | | |
| Is the procedure identified for conducting routine facility inspections? | | |
| Is the procedure identified for conducting visual assessments? | | |

## Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 8 of 11)

MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | COMMENT | RESOLUTION |
|---|---|---|
| For each type of inspection performed (i.e., routine inspection and visual assessments) does the SWPPP identify the positions of person(s) responsible for the inspection? | | |
| Does the SWPPP contain an alternative schedule for conducting visual assessments in climates with irregular stormwater runoff discharges (see Part 3.2.4)? | | |
| Are specific items to be covered by the inspection, including schedules for specific outfalls identified in the SWPPP? | | |
| Is the facility claiming an exception as an inactive and unstaffed site? If yes, the facility must include information in the SWPPP that supports this claim as required by Parts 3.1.5, 3.2.4.4, 4.2.2.5 and 4.2.5.2. That is, the SWPPP must contain a signed certification indicating that there are no industrial materials or activities exposed to precipitation at the site and the NOI must be modified and re-certified. | | |
| **Schedules and Procedures - Monitoring** | | |
| Does the SWPPP contain documentation of procedures used to conduct benchmark, effluent limitations guidelines and impaired waters monitoring? | | |
| Are locations where samples are collected, including any determination that two or more outfalls are substantially identical, in the SWPPP? | | |
| Are parameters for sampling and the frequency of sampling for each parameter listed? | | |
| Does the SWPPP contain schedules for monitoring at the facility, including a schedule for alternate monitoring periods for climates with irregular stormwater runoff (see Part 4.2.1.2)? | | |
| Are numeric control values (benchmark, effluent limitations guidelines, and water quality standards) applicable to discharges from each outfall identified? | | |
| Does the SWPPP list procedures for gathering storm event data (see Part 4.1.3)? | | |
| **Schedules and Procedures - Substantially Identical Outfalls (SIPDs)** | | |
| **Does the SWPPP contain the following relative to Substantial Identical Discharge Points (SIDPs)?** | | |
| • Location of each of the SIDPs | | |
| • Description of the general industrial activities conducted in the drainage area of each outfall | | |
| • Description of the control measures implemented in the drainage area of each outfall | | |
| • Description of the exposed materials located in the drainage area of each outfall that are likely to be significant contributors of pollutants to stormwater discharges | | |
| • An estimate of the runoff coefficient of the drainage areas (low = under 40%, medium = 40% to 65%, high = above 65% | | |
| • Justification as to why the outfalls are expected to discharge SIDPs | | |
| Do SIDPs identified on the SWPPP map match those identified in MDMRs? | | |
| Is there language indicating quarterly visual assessments of SIDPs will be performed on a rotating basis throughout the permit term? | | |

## Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 9 of 11)

MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | COMMENT | RESOLUTION |
|---|---|---|
| Is there language indicating quarterly visual assessment of the discharge at one SIDP will also apply to the other SIDPs? | | |
| Corrective Action Documentation - If an event triggering corrective action is associated with an SIDP, did the review of the need for action encompass all related substantially identical outfalls? | | |
| **Documentation** | | |
| **Does the SWPPP contain the following up-to-date and complete inspection, monitoring, and certification records?** | | |
| • Copy of NOI submitted to EPA along with any correspondence exchanged between the facility and EPA specific to coverage under this permit. | | |
| • Copy of the acknowledgement you receive from the EPA assigning your NPDES ID. | | |
| • Copy of the MSGP Permit (an electronic copy easily available to SWPPP personnel is also acceptable). | | |
| • Documentation of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules (see Part 2.1.2.3). | | |
| • All inspection reports, including the Routine Facility Inspection Reports (see Part 3.1.6) and Quarterly Visual Assessment Reports (see Part 3.2.3). | | |
| • Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (e.g., adverse weather or it was impracticable to collect samples within the first 30 minutes of a measurable storm event) (see Parts 3.2.4 and 4.1.5) | | |
| • Corrective action documentation (see Part 5.1) | | |
| • Documentation of any benchmark threshold exceedances, the associated AIM Level and response: | | |
| - Is rationale included that SCM changes are unnecessary?; | | |
| - Documentation required to meet any AIM Exception (see Part 5.2.6); | | |
| - A determination from EPA that benchmark monitoring can be discontinued because the exceedance was due to run-on; **OR** | | |
| - A finding that no further pollutant reductions were technologically available and economically practicable and achievable in light of best industry practice consistent with Part 2 | | |
| • Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if you discharge directly to impaired waters and that such pollutants were not detected in your discharge or were solely attributable to natural background sources. (see Part 4.2.5.1) | | |

## Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 10 of 11)

MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | COMMENT | RESOLUTION |
|---|---|---|
| • Documentation supporting that stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities are not likely to adversely affect any species that are federally listed as endangered or threatened ("listed") and are not likely to adversely affect habitat that is designated as "critical habitat" under the Endangered Species Act (see Part 1.1.4). | | |
| • Documentation supporting the determination that stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities meet one of the eligibility criteria for historic property preservation (Criterion A, B, C or D) (see Part 1.1.5). | | |
| • All Discharge Monitoring Reports and Annual Reports | | |
| • Support for claim that facility has changed its status from active to inactive and is unstaffed with respect to the requirements to conduct routine facility inspections (see Part 3.1.5), quarterly visual assessments (see Part 3.2.4.4), benchmark monitoring (see Part 4.2.2.5), and/or impaired waters monitoring (see Part 4.2.5.2). | | |
| Is the SWPPP signed and dated by a duly authorized representative (per Appendix B.11)? | | |
| Is the Annual Report signed by a duly authorized representative (per Appendix B.11)? | | |
| **SWPPP Modifications** | | |
| Where a corrective action triggers a change in any of the control measures or procedures, has the SWPPP been updated within 14 calendar days of completing the corrective action (see Part 6.3)? | | |
| Are SWPPP modifications signed and dated by a duly authorized representative? | | |
| **Has the SWPPP been reviewed and does documentation exist as to the modifications made or why none were needed under the following circumstances?** | | |
| • An unauthorized release or discharge (e.g., spill leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the U.S.) occurs at your facility. | | |
| • A discharge violates a numeric effluent limit listed in Table 2-1 and in the sector specific requirements. | | |
| • The control measures are not stringent enough for the discharge to meet applicable water quality standards or the non-numeric effluent limits in this permit. | | |
| • A required control measure was never installed, was installed incorrectly, or not in accordance with Parts 2 and/or 8, or is not being properly operated or maintained. | | |
| • Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam, etc.). | | |
| • Construction or a change in design, operation, or maintenance at your facility that significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged. | | |

## Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 11 of 11)

MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | COMMENT | RESOLUTION |
|---|---|---|
| • The average of four quarterly sampling results exceeds an applicable benchmark (see Part 4.2). If less than four benchmark samples have been taken, but the results are such that an exceedance of the four quarter average is mathematically certain (i.e., the sum of quarterly sample results to date is more than four times the benchmark level) this is considered a benchmark exceedance. | | |
| **Public Accessibility of SWPPP** | | |
| Is your SWPPP uploaded to the URL provided in the NOI? | | |
| Are subsequent SWPPP modifications (updates), records and all other reporting elements required for the previous year updated no later than 45 days after conducting the final routine facility inspection for the year? | | |
| **If you did not upload your SWPPPs to a URL, was the following information provided in the NOI and documented in the SWPPP?** | | |
| • Onsite industrial activities exposed to stormwater, including potential spill and leak areas (see Parts 6.2.3.1, 6.2.3.3 and 6.2.3.5); | | |
| • Pollutants or pollutant constituents associated with each industrial activity exposed to stormwater that could be discharged in stormwater and/or any authorized non-stormwater discharges listed in Part 1.2.2.1 (see Part 6.2.3.2) | | |
| • Stormwater control measures employed to comply with the non-numeric technology-based effluent limits required in Part 2.1.2 and Part 8, and any other measures taken to comply with the requirements in Part 2.2, Water Quality Based Effluent Limitations. If polymers and/or other chemical treatments are used as controls these must be identified and the purpose explained. | | |
| • The schedule for good housekeeping and maintenance and schedule for all inspections required in Part 3. | | |
| Are modifications to the SWPPP information, required in the four bullets above, updated no later than 45 days after conducting the final routine facility inspection for the year and uploaded onto a URL that is accessible by the public (i.e., eprr.lanl.gov). | | |
| **Corrective Actions** | | |
| Are corrective actions documented within 24 hours of becoming aware of such condition? | | |
| Is the condition triggering the need for the corrective action identified? | | |
| Is the date the corrective action was identified captured? | | |
| Was immediate action taken to minimize or prevent the discharge of pollutants? | | |
| In the case of leaks and spills, were response actions, date/time of clean up, notification, etc. documented? | | |

## ATTACHMENT 24: WFO-IWD-0016, SPILL RESPONSE AND CLEAN UP IN WEAPONS FACILITIES OPERATIONS (WFO) AREAS

| Document Number: | WFO-IWD-0016 |
|---|---|
| Revision: | J |

# Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

| | | | |
|---|---|---|---|
| **Effective Date:** 08/23/2024 | | **Expiration Date** *(Maximum 3 years)*: 08/23/2027 | |
| **Hazard Category** | ☐ High/Complex | ☒ Moderate | ☐ Low |
| **Standing IWD?** | ☒ Yes *(one Pre-Job Brief. If High/Complex hazard, Pre-Job brief required for each evolution)* | | ☐ No |

***Reviewed and Approved for Use By:***

| | Printed Name | Z# | Org | Signature | Date |
|---|---|---|---|---|---|
| Person in Charge (PIC) | Kelkenny Bileen | 178009 | EPC-CP | Kelkenny Bileen Digitally signed by Kelkenny Bileen Date: 2024.08.09 15:43:11 -06'00' | |
| Peer Reviewer | Robert Kyser | 099925 | OSH-DS | ROBERT KYSER (Affiliate) Digitally signed by ROBERT KYSER (Affiliate) Date: 2024.08.12 11:04:15 -06'00' | |
| Responsible Line Manager | Sarah Holcomb | 266295 | EPC-CP | SARAH HOLCOMB (Affiliate) Digitally signed by SARAH HOLCOMB (Affiliate) Date: 2024.08.12 15:37:05 -06'00' | |
| Operations Manager | Allison Ellerson | 372720 | WFO-DO | ALLISON ELLERSON (Affiliate) Digitally signed by ALLISON ELLERSON (Affiliate) Date: 2024.08.14 17:31:40 -06'00' | |
| Operations Manager | Joseph Dabney | 189278 | WFO-DO | JOSEPH DABNEY (Affiliate) Digitally signed by JOSEPH DABNEY (Affiliate) Date: 2024.08.22 08:22:56 -06'00' | |

The Facility Operations Director (FOD) approval indicates that the work is appropriate to be conducted in the facility, the work is bounded by the facility authorization basis, that facility safety basis, aggregate hazards, and co-located hazards will be managed, and that the facility entry, training and coordination requirements are fully captured within this document. Unless otherwise indicated, approval indicates work release (i.e., no signature required on Part 3).

☐ If Checked, FOD Signature is Required on Part 3

| | Printed Name | Z# | Org | Signature | Date |
|---|---|---|---|---|---|
| Facility Operations Director (FOD) | Derek Clark | 332752 | WFO-DO | PETER RICE (Affiliate) Digitally signed by PETER RICE (Affiliate) Date: 2024.08.23 16:50:17 -06'00' | |

**Derivative Classification Review**

If this document is OUO, UCNI and/or Classified, add the appropriate markings, distribution limitation statement, and guidance data block (s) to document cover page.

☒ Unclassified ☐ Official Use Only ☐ Unclassified Controlled Nuclear Information

**Guidance Used:** CG-SS-5, Change 1

| DC/RO Name/Z Number: | Organization: | Signature: | Date: |
|---|---|---|---|
| Kelkenny Bileen | EPC-CP | Kelkenny Bileen Digitally signed by Kelkenny Bileen Date: 2024.06.13 16:03:14 -06'00' | 06/13/24 |

***For Document Control Team Reference:***

☒ USQ *(applicable to WETF)* ☒ USI *(applicable to DARHT)* ☐ N/A

**Users are responsible for verifying that they are working to the most current revision of a document**

## Revision History

| Revision | Effective Date | Action | Description |
|---|---|---|---|
| | | | For revision history for A through G, see revision H of this document. |
| H | 02/25/2022 | Major Revision | Inserted updated 2101s and 2102s for FY 2022. Updated approvals on cover page. Added new Note 1 to Section 1.3 and renumbered existing note as Note 2. Updated Attachment A where eyewash stations are mentioned. |
| I | 07/28/2023 | Major Revision | Inserted updated 2101 and 2102 forms for FY23. Updated approvals on cover page. Other changes throughout; revision bars not used. |
| J | 08/23/2024 | Major Revision | Inserted updated 2101 and 2102 forms for FY24. Updated hyperlink for P300 in Part 1. Other changes throughout; revision bars not used. |

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## 1.0 Introduction

### 1.1 Purpose

This procedure describes remediation of unplanned releases following notification to the Duty Officer. The objective of this task is spill response and the cleanup of unplanned releases deemed a non-emergency by EOSC or EPC-CP.

### 1.2 Scope

This IWD is to be implemented for the remediation of unplanned releases following notification to the Duty Officer. The objective of this task is spill response and the remediation of unplanned releases deemed a non-emergency by EOSC or EPC-CP. These unplanned releases could occur at or within any WFO- FOD facility including TAs,6, 8, -9, 11, 14, 15, 16, 22, 36, 37, 39, 40, and 49. Depending on the location of the spill, additional contaminants such as heavy metals, beryllium, trace amounts of or nonhazardous amounts of HE or DU could also exist in the soil and therefore the waste stream. WFO's waste management coordinators will make waste determinations and manage the wastes per P409, *Waste Management.*

**Note:** In the event that an item is encountered within an HE area that cannot be immediately identified as normal firing site debris work shall be paused and an explosives SME will be contacted to identify the item in question.

**Note:** In active HE areas a person with site specific knowledge will be consulted to identify any hazards prior to the start of work"

### 1.3 Applicability

This document applies to WFO workers at TAs,6, 8, 9, 11, 14, 15, 16, 22, 36, 37, 39, 40, and 49.who are performing spill remediationactivities as described in 1.2 Scope. There are two types of unplanned releases:

- Simple (Non-Emergency) unplanned releases (incidental release), which can be cleaned up by knowledgeable chemical workers (workers with knowledge of the chemical, appropriate training, materials and PPE needed to clean the spill). A simple spill shall be defined as one that:

    1. Does not endanger people or property (except by direct contact)
    2. Does not endanger the environment
    3. Does not involve fire or an explosive condition or the potential for such
    4. All others are complex unplanned releases

- Complex (Emergency) unplanned releases (significant unplanned releases), which require outside assistance (Emergency Operations Support Center(EOSC)).

**Note 1:** If a spill is located in a trafficked area, the EOSC should be contacted (505-667-2400) so they can arrange for traffic control during the remediation to avoid injury to responders due to motorists driving in the area regardless if the spill is considered simple or complex.

**Note 2:** All unplanned releases (both outside or indoors) must be reported to EPC-CP to ensure each incident is evaluated, documented and remediated. EPC-CP is responsible for fulfilling any required external notifications associated with the release. Contact the EPC-CP Spills Pager (505-664-7722) to promptly notify EPC-CP of any unplanned releases. Contact EOSC (505-667-2400) in the event of an emergency.

### 1.4 Definitions and Acronyms

None.

### 1.5 Hazard Analysis

Hazard Analysis (HA) Method Used: ☐ Brainstorming ☒ Other:
List Names of HA Team (Attach sheet if necessary): DESHF-WFO Industrial Hygiene Team Date HA Performed: 11/03/2014.

### 1.6 Site Emergency Contacts

- Weapons Duty Officer: 505-664-2926
- Trit-HE Duty Operation Page; 505-664-6679
- WETF On-Call pager: 505-664-3426
- EOSC 505-667-2400
- EPC-CP Spills Pager: 505-664-7722

## 2.0 Procedural Steps

See procedural steps, hazards, and controls in Attachment A.

## 3.0 Forms

| Number | Title |
|---|---|
| 2100 | Integrated Work Document (IWD) Part 1, Activity Specific Information |
| 2101 | Integrated Work Document (IWD) Part 2, FOD Requirements and Approval for Entry and Area Hazards and Controls, Non-Tenant Activity Form |
| 2102 | Integrated Work Document (IWD) Part 2, FOD Requirements and Approval for Entry and Area Hazards and Controls, Tenant Activity Form |
| 2103 | Integrated Work Document (IWD) Part 3, Validation and Work Release |
| 2104 | Integrated Work Document (IWD) Part 4, Post Job Review |

## 4.0 Attachments

Forms 2100, 2101, 2102, 2103, 2104.

## Attachment A
## Integrated Work Document (IWD) Part 1, Activity Specific Information

| **Work Tasks/Steps**<br>Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection. | **Hazards, Concerns, and Potential Accidents/Incidents**<br>Identify both activity and work-area hazards for each task/step. | **Controls, Preventive Measures, and Bounding Conditions**<br>Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization). | **Reference Documents**<br>List permits, operating manuals, security plans, and other reference procedures. | **Training**<br>List training and qualification requirements. (P300, Integrated Work Management, Section 6.0) |
|---|---|---|---|---|
| **Spill Response** | | | | |
| Assess site for hazards | Previously unknown hazards or changed conditions | • Perform windshield survey of the area<br>• Interview workers knowledgeable of the spill<br>• Identify hazards<br>• Determine source, type and quantity of spilled material<br>• Walk down site prior to activity<br>• Communicate hazards to other workers | Applicable *WFO Building Emergency Plan* | HAZCOM, Course 22956<br><br>Item # 27205, *WFO (FOD-3 Building Emergency Plan* |
| | Slips, trips and falls | • Avoid stepping in spilled material<br>• Be aware of footing and surroundings at all times. Identify hazards prior to initiating work.<br>• Use caution and be observant while moving in areas with potential slip, trip or fall hazards.<br>• Implement good housekeeping practices.<br>• No open-toed shoes | None | None |
| Control site Access | Previously unknown hazards or changed conditions | • Administratively control area<br>• Barriers: tape, rope | None | HAZCOM, Course 22956 |

## Attachment A
## Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

| **Work Tasks/Steps**<br>Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection. | **Hazards, Concerns, and Potential Accidents/Incidents**<br>Identify both activity and work-area hazards for each task/step. | **Controls, Preventive Measures, and Bounding Conditions**<br>Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization). | **Reference Documents**<br>List permits, operating manuals, security plans, and other reference procedures. | **Training**<br>List training and qualification requirements. (P300, Integrated Work Management, Section 6.0) |
|---|---|---|---|---|
| Deploy Spill control measures (loose absorbents, pads and booms) | Incompatible materials | • Determine type of spilled material<br>• Select proper spill control material | • Manufacturer instructions<br>• SDS | HAZCOM, Course 22956 |
| | Inhalation hazards | • EOC should be contacted 505-667-2400.<br>• In approaching the spill, area should be avoided.<br>• Position personnel up wind of plume | • Manufacturer instructions<br>• SDS | HAZCOM, Course 22956 |
| | Contact with spilled material | • Proper PPE<br>**Hands:** Compatible gloves.<br>**Eyes:** Safety glasses with side shields for all operations<br>**Body:** Long pants and sleeved shirt<br>• When caustics are present, ensure an eyewash station is accessible within 10 seconds of the hazard (approximately 55 feet) and the path of travel is free of obstructions. | • Consult with the WFO Industrial Hygienist (IH),<br>• SDS | HAZCOM, Course 22956 |

## Attachment A
## Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

| **Work Tasks/Steps**<br>Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection. | **Hazards, Concerns, and Potential Accidents/Incidents**<br>Identify both activity and work-area hazards for each task/step. | **Controls, Preventive Measures, and Bounding Conditions**<br>Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization). | **Reference Documents**<br>List permits, operating manuals, security plans, and other reference procedures. | **Training**<br>List training and qualification requirements. (P300, Integrated Work Management, Section 6.0) |
|---|---|---|---|---|
| Clean up of absorbent material (loose absorbents, pads and booms) | Inhalation hazards | • Minimize generation of dust or splash<br>• Minimize time in the vicinity of the spilled material<br>• Position personnel up wind of spill | • Manufacturer instructions<br>• SDS | HAZCOM, Course 22956 |
| | Contact with spilled material | • Proper PPE<br>**Hands:** Compatible gloves.<br>**Eyes:** Safety glasses with side shields for all operations spills<br>**Body:** Long pants and sleeved shirt<br>• When caustics are present, ensure an eyewash station is accessible within 10 seconds of the hazard (approximately 55 feet) and the path of travel is free of obstructions. | • Consult with the WFO Industrial Hygienist (IH),<br>• SDS | HAZCOM, Course 22956 |
| Application of Micro Blaze Emergency Liquid Spill Control. | Contact with Micro Blaze Be upwind when applied | • Proper PPE:<br>• **Eyes:** Safety glasses with side shields for all operations<br>• Do not direct spray towards personnel<br>• Instruct personnel to be upwind when Micro Blaze is applied. | • Manufacturer instructions<br>• SDS | HAZCOM, Course 22956 |
| | Low pressure (<100 psi) | • Follow sprayer manufacturer's instructions | • Manufacturer instructions | None |
| | Slippery surfaces (when applied to asphalt or concrete) | • Avoid stepping in treated area<br>• If necessary, spray treated area with clean water after 15 minutes | • None | None |

## Attachment A
## Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

| **Work Tasks/Steps**<br>Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection. | **Hazards, Concerns, and Potential Accidents/Incidents**<br>Identify both activity and work-area hazards for each task/step. | **Controls, Preventive Measures, and Bounding Conditions**<br>Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization). | **Reference Documents**<br>List permits, operating manuals, security plans, and other reference procedures. | **Training**<br>List training and qualification requirements. (P300, Integrated Work Management, Section 6.0)) |
|---|---|---|---|---|
| Recharge of sprayer with Micro Blaze Emergency Liquid Spill Control | Contact with Micro Blaze | • Proper PPE<br>Eyes: Safety glasses with side shields for all operations. | • SDS | HAZCOM, Course 22956 |
| | Compressed Air: Low pressure (<100 psi) | • Follow manufactures instructions<br>• Proper PPE:<br>**Eyes:** Safety glasses with side shields for all operations<br>• Hand tighten nozzle assembly onto canister<br>• Do not charge sprayer over 100 psi | • Manufacturer Instructions | None |

## Attachment A
## Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

| **Work Tasks/Steps**<br>Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection. | **Hazards, Concerns, and Potential Accidents/Incidents**<br>Identify both activity and work-area hazards for each task/step. | **Controls, Preventive Measures, and Bounding Conditions**<br>Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization). | **Reference Documents**<br>List permits, operating manuals, security plans, and other reference procedures. | **Training**<br>List training and qualification requirements (P300, Integrated Work Management, Section 6.0)) |
|---|---|---|---|---|
| **Excavation of Contaminated Soil** | | | | |
| Excavation of soil stained with spilled material. | Excavation hazards associated with underground utilities: electrocution, explosion | • Excavation Permit as required | • P101-17 Excavation/Fill /Soil Disturbance | None |
| | Use of hand tools: Pinch points, mashing fingers and/or toes | • All hand tools will be inspected for integrity before use. Personnel will be instructed to use hand tools in the intended manner.<br>• Proper PPE:<br>**Eyes:** Safety glasses with side shields<br>**Hands:** Work gloves<br>**Foot:** safety shoes | None | None |
| | Use of Heavy Equipment: Workers struck or crushed by equipment, Rollover | • Only qualified equipment operators are allowed to operate heavy equipment.<br>• Equipment shall be inspected daily or before each use<br>• Heavy equipment shall be inspected for engineering controls<br>• Persons on the ground are instructed to get and maintain eye contact with heavy equipment operators with pre-established hand signals. | • Subparts O of 29 CFR 1926 and 29 CFR 1910 | None |

## Attachment A
## Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

| **Work Tasks/Steps**<br>Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection. | **Hazards, Concerns, and Potential Accidents/Incidents**<br>Identify both activity and work-area hazards for each task/step. | **Controls, Preventive Measures, and Bounding Conditions**<br>Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization). | **Reference Documents**<br>List permits, operating manuals, security plans, and other reference procedures. | **Training**<br>List training and qualification requirements(P300, Integrated Work Management, Section 6.0)) |
|---|---|---|---|---|
| Excavation of soil stained with spilled material., **cont'd** | Potential for historical site contaminants, SWMUs: DU, HE, Beryllium, Lead | • Signs and postings<br>• Consult with Industrial Hygienist (IH), RCTs and HE Operations Team Leader<br>• Consult EPC-CP.<br>• Have soil surveyed by an RCT prior to and as excavated, as necessary.<br>• Additional PPE as required by IH and RCT<br><br>***Note:*** In the event that an item is encountered within an HE area that cannot be immediately identified as normal firing site debris work shall be paused and an explosives SME will be contacted to identify the item in question.<br><br>***Note****:* In active HE areas a person with site specific knowledge will be consulted to identify any hazards prior to the start of work. | • WFO-AP-263, *WFO Access Requirements for Knowledgeable Persons*<br>• P 101-17 Excavation/Fill/ Soil Disturbance<br>• Geographic Information Systems (GIS) mapping tool | |
| | Heavy Lifting. | • Proper lifting techniques<br>• Lift only what you are capable of but not more than 50 pounds.<br>• Use two or more people to lift heavy or awkward loads<br>• Position load to be lifted directly in front of body. Bend knees and grasp load underneath with both hands and raise load using legs (not back).<br>• Do not lift and twist | None | None |

## Attachment A
## Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

| **Work Tasks/Steps**<br>Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection. | **Hazards, Concerns, and Potential Accidents/Incidents**<br>Identify both activity and work-area hazards for each task/step. | **Controls, Preventive Measures, and Bounding Conditions**<br>Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization). | **Reference Documents**<br>List permits, operating manuals, security plans, and other reference procedures. | **Training**<br>List training and qualification requirements(P300, Integrated Work Management, Section 6.0)) |
|---|---|---|---|---|
| **Containerize wastes** | | | | |
| Containerize waste absorbent material, excavated soil and other waste | Pinch points, mashing fingers and/or toes | • Keep hands away from pinch points.<br>• Proper PPE:<br>**Eyes:** Safety glasses with side shields<br>**Hands:** Work gloves<br>**Foot:** safety shoes | None | None |
| | Use of hand tools: Pinch points, mashing fingers and/or toes | • All hand tools will be inspected for integrity before use. Personnel will be instructed to use hand tools in the intended manner.<br>• Proper PPE:<br>**Eyes:** Safety glasses with side shields<br>**Hands:** Work gloves<br>**Foot:** safety shoes | None | None |
| | Heavy Lifting. | • Proper lifting techniques<br>• Lift only what you are capable of but not more than 50 pounds.<br>• Use two or more people to lift heavy or awkward loads<br>• Position load to be lifted directly in front of body. Bend knees and grasp load underneath with both hands and raise load using legs (not back).<br>• Do not lift and twist | None | None |
| | Incorrect waste determination and management | • WMC determines waste type<br>• WMC will label waste container<br>• WMC will manage wastes | P-409 Waste Management | Waste Generator Overview |

## Attachment A
## Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

| **Work Tasks/Steps**<br>Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection. | **Hazards, Concerns, and Potential Accidents/Incidents**<br>Identify both activity and work-area hazards for each task/step. | **Controls, Preventive Measures, and Bounding Conditions**<br>Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization). | **Reference Documents**<br>List permits, operating manuals, security plans, and other reference procedures. | **Training**<br>List training and qualification requirements(P300, Integrated Work Management, Section 6.0)) |
|---|---|---|---|---|
| **Opening and Securing of Waste Containers** | | | | |
| | Do not use or open drums with apparent bulging; even empty drums may be pressurized. | • Inspect before opening; even empty drums may be pressurized. | P-409 Waste Management | Waste Generator Overview |
| **Transport fo Waste Containers** | | | | |
| Waste Management Coordinator (WMC) transports waste containers to designated waste storage area | Operation of lift gate: Pinch points, mashing fingers and/or toes | • Advise nearby workers that the lift gate is being operated<br>• Kept clear of lift gate swing radius<br>• Proper PPE:<br>**Eyes:** Safety glasses with side shields<br>**Hands:** Work gloves | Manufacturer instructions | None |
| | Heavy Lifting | • Proper lifting techniques<br>• Lift only what you are capable of but not more than 50 pounds.<br>• Use two or more people to lift heavy or awkward loads<br>• Position load to be lifted directly in front of body. Bend knees and grasp load underneath with both hands and raise load using legs (not back).<br>• Do not lift and twist | None | None |
| | Shifting loads | • Secure loads in truck bed | None | None |

# Attachment B
# Integrated Work Document (IWD) Part 2 (Non Tenant)

Form 2101

Los Alamos NATIONAL LABORATORY

## Integrated Work Document (IWD) Part 2
## FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

IWD No./Work Request No: WFO-IWD-0016 Revision No.: I-IPC1

The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.

| FOD | TA | Bldg. | Room | Other Location |
|---|---|---|---|---|
| 03 | 16 | 205 | 100, 100A, 101, 102, 103, 104, 104A, 106, 110 | |

| FOD Designated Facility Point-of-Contact | Name | Phone | Pager | Email |
|---|---|---|---|---|
| | Don Hyatt | 7-7519 | 4-6314 | hyatt@lanl.gov |
| | Mel Ortiz | 7-4519 | 4-3070 | msortiz@lanl.gov |
| | Cipriano Vigil | 6-3363 | 4-7384 | cfvigil@lanl.gov |

**General Requirement/Guidance:**

- Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training.
- Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.

**Entry and Coordination Requirements (*check one or more of the following*):**

- ☐ No entry/coordination requirements
- ☒ Schedule work with the FOD
- ☒ Attend Plan of the Day/Plan of the Week (POTD/POTW)
- ☒ Security clearance or escort required
- ☒ Other security requirements (e.g., no cellphone or foreign nationals)
- ☒ Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)
- ☒ FOD-designated facility point-of-contact must sign IWD Part 3
- ☒ Facility-specific or other work area training required
- ☒ Check in daily
- ☒ Check out daily
- ☐ Quality issues
- ☐ Non-security escort required
- ☐ Other bounding conditions: _____

**Additional Comments:**
WETF is a Category II Nuclear Facility, Check in with the WETF Duty Operator, 7-2060, prior to start of work. The WETF work control process must be followed. Security requirements: No 2-way pagers or personal cell phones. Government Iphones/Blackberries are allowed except in the "Closed Area." Government issued cellphones must have the battery removed. "Q"/"L" Clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.

**Instructions:** In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns** Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions** Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents** List permits, operating manuals, and other procedures (if required in the field) | **Training and Qualification** (*special or unique to the area*) |
|---|---|---|---|---|
| ☐ **No work area hazards** | | | | |

Form 2101 (04/21) Page 1 of 3

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| | | | | |
|---|---|---|---|---|
| **Ionizing Radiation**<br>Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices.<br>**Specify Hazard:** | ☐ Yes ☒ No | N/A | N/A | N/A |

IWD No./Work Request No.: _____ Revision No.: _____

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other reference procedures | **Training and Qualification**<br>List training requirements |
|---|---|---|---|---|
| **Worker Exposure**<br>Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives.<br>**Specify Hazards:** Nirtogen and Berylium in room 120 cabinet and room 126 drums | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Energized and Operative Systems**<br>Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Confined Spaces**<br>Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Elevated Work Surface**<br>Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, *Fall Protection Program*, or a surface not designed to support worker(s) and equipment. | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Environmental**<br>Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Security Requirements**<br>**Specify: Limited Security Area** | ☒ Yes ☐ No | • Q or L clearance<br>• Uncleared MUST be escorted | P202-1 Security Areas, Property Protection Areas, and General Access Areas | U-Train 1425 Annual Security Refresher |



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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

| | | | | |
|---|---|---|---|---|
| **Other Hazards**<br>**Specify:** LEEDS (Low Energy Electro Explosives Devices) are present inside WETF | ☒ Yes ☐ No | All radio frequency generating activities (e.g. GPR, XRF, ETC.) Must be approved by the Operations Manager. | • P 101-8 Explosives Safety | N/A |
| I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.<br>**FOD or Representative** (Signature/Z Number/Date) **Approval Required**<br>WFO OM/Designee Signature-on-File | | | | |



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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

Form 2101

Los Alamos NATIONAL LABORATORY

### Integrated Work Document (IWD) Part 2
### FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

IWD No./Work Request NoWFO-IWD-0016 Revision No.: I-IPC1

The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.

| FOD | TA | Bldg. | Room | Other Location |
|---|---|---|---|---|
| 03 | 16 | 205 | 112,114, 115, 116, 100B, 120, 122, 124, 126 | |

| FOD Designated Facility Point-of-Contact | Name | Phone | Pager | Email |
|---|---|---|---|---|
| | Don Hyatt | 7-7519 | 4-6314 | hyatt@lanl.gov |
| | Mel Ortiz | 7-4519 | 4-3070 | msortiz@lanl.gov |
| | Cipriano Vigil | 6-3363 | 4-7384 | cfvigil@lanl.gov |

**General Requirement/Guidance:**

- Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training.
- Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.

**Entry and Coordination Requirements (*check one or more of the following*):**

- ☐ No entry/coordination requirements
- ☒ Schedule work with the FOD
- ☒ Attend Plan of the Day/Plan of the Week (POTD/POTW)
- ☒ Security clearance or escort required
- ☒ Other security requirements (e.g., no cellphone or foreign nationals)
- ☒ Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)
- ☒ FOD-designated facility point-of-contact must sign IWD Part 3
- ☒ Facility-specific or other work area training required
- ☒ Check in daily
- ☒ Check out daily
- ☐ Quality issues
- ☐ Non-security escort required
- ☐ Other bounding conditions: _____

**Additional Comments:**
WETF is a Category II Nuclear Facility, Check in with the WETF Duty Operator, 7-2060, prior to start of work. The WETF work control process must be followed. Security requirements: No 2-way pagers or personal cell phones. Government Iphones/Blackberries are allowed except in the "Closed Area." Government issued cellphones must have the battery removed. "Q"/"L" Clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.

**Instructions:** In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns** Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions** Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents** List permits, operating manuals, and other procedures (if required in the field) | **Training and Qualification** (*special or unique to the area*) |
|---|---|---|---|---|
| ☐ **No work area hazards** | | | | |

Form 2101 (04/21) Page 1 of 3

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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Ionizing Radiation**<br>Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices.<br>**Specify Hazard:** Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. | ☒ Yes ☐ No | • Facility and Job-Specific pre-job briefing, facility postings | Job Specific RWP's and work package instructions and WETF-AP-FRPR-34 Facility Radiation Protection Requirements Weapons Engineering Tritium Facility | RAD Worker II and Facility Access Training unless escorted |

IWD No./Work Request No.: _____ Revision No.: _____

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other reference procedures | **Training and Qualification**<br>List training requirements |
|---|---|---|---|---|
| **Worker Exposure**<br>Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives.<br>**Specify Hazards:** Nitrogen and Berylium in room 120 cabinet and room 126 drums. | ☒ Yes ☐ No | **• Facility and job-specific pre-job briefing.**<br>**• If accessing the Be cabinet in room 120 contact IH for Beryllium evaluation and controls**<br>**•If accesing the drums or handling beryllium articles or items from the drums in room 126, contact IH for evaluation and controls** | P101-5 Cryogens<br>P101-21 Chronic Berylium disease prevention program | Facility briefing by Duty Operator<br>Beryllium Awareness Training Course 28340 |
| **Energized and Operative Systems**<br>Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Confined Spaces**<br>Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Elevated Work Surface**<br>Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, *Fall Protection Program*, or a surface not designed to support worker(s) and equipment. | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Environmental** | ☐ Yes ☒ No | N/A | N/A | N/A |



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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment.<br>**Specify Hazards:** | | | | |
| **Security Requirements**<br>**Specify:** | ☒ Yes ☐ No | • Q or L clearance | P202-1 Security Areas, Property Protection Areas, and General Access Areas | U-Train 1425 Annual Security Refresher |
| **Other Hazards**<br>**Specify:** LEEDS (Low Energy Electro Explosives Devices) are present inside WETF | ☒ Yes ☐ No | All radio frequency generating activities (e.g. GPR, XRF, ETC.) Must be approved by the Operations Manager. | • P 101-8 Explosives Safety | N/A |
| I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.<br>**FOD or Representative** (Signature/Z Number/Date) **Approval Required**<br>WFO OM/Designee Signature-on-File | | | | |



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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

Form 2101

Los Alamos NATIONAL LABORATORY

### Integrated Work Document (IWD) Part 2
### FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

IWD No./Work Request No: WFO-IWD-0016 Revision No.: IPC1

The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.

| FOD | TA | Bldg. | Room | Other Location |
|---|---|---|---|---|
| 03 | 16 | 205 | UPS and Equipment Rooms | Roof |

| **FOD Designated Facility Point-of-Contact** | Name | Phone | Pager | Email |
|---|---|---|---|---|
| | Don Hyatt | 7-7519 | 4-6314 | hyatt@lanl.gov |
| | Mel Ortiz | 7-4519 | 4-3070 | msortiz@lanl.gov |
| | Cipriano Vigil | 6-3363 | 4-7384 | cfvigil@lanl.gov |

**General Requirement/Guidance:**

- Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training.
- Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.

**Entry and Coordination Requirements (*check one or more of the following*):**

- ☐ No entry/coordination requirements
- ☒ Schedule work with the FOD
- ☒ Attend Plan of the Day/Plan of the Week (POTD/POTW)
- ☒ Security clearance or escort required
- ☒ Other security requirements (e.g., no cellphone or foreign nationals)
- ☒ Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)
- ☒ FOD-designated facility point-of-contact must sign IWD Part 3
- ☒ Facility-specific or other work area training required
- ☒ Check in daily
- ☒ Check out daily
- ☐ Quality issues
- ☐ Non-security escort required
- ☐ Other bounding conditions: _____

**Additional Comments:**
WETF is a Category II Nuclear Facility, Check in with the WETF Duty Operator, 7-2060, prior to start of work. The WETF work control process must be followed. Security requirements: No 2-way pagers or personal cell phones. Government Iphones/Blackberries are allowed except in the "Closed Area." Government issued cellphones must have the battery removed. "Q"/"L" Clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.

**Instructions:** In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns** Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions** Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents** List permits, operating manuals, and other procedures (if required in the field) | **Training and Qualification** (*special or unique to the area*) |
|---|---|---|---|---|
| ☐ **No work area hazards** | | | | |



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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Ionizing Radiation**<br>Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices.<br>**Specify Hazard:** Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. | ☐ Yes ☒ No | N/A | N/A | N/A |
| IWD No./Work Request No.: _____ Revision No.: _____ | | | | |
| **ESH/S&S WORK AREA HAZARDS AND CONTROLS** | | | | |
| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other reference procedures | **Training and Qualification**<br>List training requirements |
| **Worker Exposure**<br>Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives.<br>**Specify Hazards:** Potential for low oxygen concentration due to liquid nitrogen system | ☒ Yes ☐ No | **Facility and job specific pre-job briefing.** | P101-5 Cryogens | Facility Briefing by Duty Operator |
| **Energized and Operative Systems**<br>Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Confined Spaces**<br>Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Elevated Work Surface**<br>Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, *Fall Protection Program*, or a surface not designed to support worker(s) and equipment. | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Environmental**<br>Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Security Requirements**<br>**Specify: Limited Security Area** | ☒ Yes ☐ No | • Q or L clearance<br>• Uncleared MUST be escorted | • P 200-2 Physical Security | N/A |

Form 2101 (04/21) Page 2 of 3

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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Other Hazards**<br>**Specify:** LEEDS (Low Energy Electro Explosives Devices) are present inside WETF | ☒ Yes ☐ No | All radio frequency generating activities (e.g. GPR, XRF, ETC.) Must be approved by the Operations Manager. | • P 101-8 Explosives Safety | N/A |
| I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.<br>**FOD or Representative** (Signature/Z Number/Date) **Approval Required**<br>WFO OM/Designee Signature-on-File | | | | |



**Users are responsible for obtaining the most current version of the 2101 Form From WFO 2101s web page**

## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

Form 2101

Los Alamos NATIONAL LABORATORY

### Integrated Work Document (IWD) Part 2
### FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

IWD No./Work Request No: WFO-IWD-008 Revision No.: I-IPC1

The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.

| FOD | TA | Bldg. | Room | Other Location |
|---|---|---|---|---|
| 03 | 16 | 205/450 | Exterior Areas | |
| **FOD Designated Facility Point-of-Contact** | Name | Phone | Pager | Email |
| | Don Hyatt | 7-7519 | 4-6314 | hyatt@lanl.gov |
| | Mel Ortiz | 7-4519 | 4-3070 | msortiz@lanl.gov |
| | Cipriano Vigil | 6-3363 | 4-7384 | cfvigil@lanl.gov |

**General Requirement/Guidance:**
- Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training.
- Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.

**Entry and Coordination Requirements (*check one or more of the following*):**

- ☐ No entry/coordination requirements
- ☒ Schedule work with the FOD
- ☒ Attend Plan of the Day/Plan of the Week (POTD/POTW)
- ☒ Security clearance or escort required
- ☒ Other security requirements (e.g., no cellphone or foreign nationals)
- ☒ Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)
- ☒ FOD-designated facility point-of-contact must sign IWD Part 3
- ☐ Facility-specific or other work area training required
- ☒ Check in daily
- ☒ Check out daily
- ☐ Quality issues
- ☐ Non-security escort required
- ☐ Other bounding conditions: _____

**Additional Comments:**
WETF is a Category II Nuclear Facility, Check in with the WETF Duty Operator, 7-2060, prior to start of work. The WETF work control process must be followed. Security requirements: No 2-way pagers or personal cell phones. Government Iphones/Blackberries are allowed except in the "Closed Area." Government issued cellphones must have the battery removed. "Q"/"L" Clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.

**Instructions:** In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns** Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions** Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents** List permits, operating manuals, and other procedures (if required in the field) | **Training and Qualification** (*special or unique to the area*) |
|---|---|---|---|---|
| ☐ **No work area hazards** | | | | |



**Users are responsible for obtaining the most current version of the 2101 Form From WFO 2101s web page**

## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Ionizing Radiation**<br>Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices.<br>**Specify Hazard:** Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. | ☐ Yes ☒ No | N/A | N/A | N/A |
| IWD No./Work Request No.: _____ Revision No.: _____ | | | | |
| **ESH/S&S WORK AREA HAZARDS AND CONTROLS** | | | | |
| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other reference procedures | **Training and Qualification**<br>List training requirements |
| **Worker Exposure**<br>Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Energized and Operative Systems**<br>Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Confined Spaces**<br>Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Elevated Work Surface**<br>Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, *Fall Protection Program*, or a surface not designed to support worker(s) and equipment. | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Environmental**<br>Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Security Requirements**<br>**Specify: Limited Security Area** | ☒ Yes ☐ No | • Q or L clearance<br>• Uncleared MUST be escorted | • P 200-2 Physical Security | N/A |

Form 2101 (04/21) Page 2 of 3

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| | | | | |
|---|---|---|---|---|
| **Other Hazards**<br>**Specify:** LEEDS (Low Energy Electro Explosives Devices) are present inside WETF | ☒ Yes ☐ No | All radio frequency generating activities (e.g. GPR, XRF, ETC.) Must be approved by the Operations Manager. | • P 101-8 Explosives Safety | N/A |
| I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.<br>**FOD or Representative** (Signature/Z Number/Date) **Approval Required**<br>WFO OM/Designee Signature-on-File | | | | |



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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

Form 2101

Los Alamos NATIONAL LABORATORY

### Integrated Work Document (IWD) Part 2
### FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

IWD No./Work Request No: WFO-IWD-00161 Revision No.: I-IPC1

The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.

| FOD | TA | Bldg. | Room | Other Location |
|---|---|---|---|---|
| 03 | 16 | 329 | All | |
| **FOD Designated Facility Point-of-Contact** | Name | Phone | Pager | Email |
| | Don Hyatt | 7-7519 | 4-6314 | hyatt@lanl.gov |
| | Mel Ortiz | 7-4519 | 4-3070 | msortiz@lanl.gov |
| | Cipriano Vigil | 6-3363 | 4-7384 | cfvigil@lanl.gov |

**General Requirement/Guidance:**
- Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training.
- Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.

**Entry and Coordination Requirements (*check one or more of the following*):**

- ☐ No entry/coordination requirements
- ☐ Schedule work with the FOD
- ☒ Attend Plan of the Day/Plan of the Week (POTD/POTW)
- ☒ Security clearance or escort required
- ☒ Other security requirements (e.g., no cellphone or foreign nationals)
- ☒ Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)
- ☐ FOD-designated facility point-of-contact must sign IWD Part 3
- ☒ Facility-specific or other work area training required
- ☒ Check in daily
- ☒ Check out daily
- ☐ Quality issues
- ☐ Non-security escort required
- ☐ Other bounding conditions: _____

**Additional Comments:**
WETF is a Category II Nuclear Facility, Check in with the WETF Duty Operator, 7-2060, prior to start of work. The WETF work control process must be followed. Security requirements: No 2-way pagers or personal cell phones. Government Iphones/Blackberries are allowed except in the "Closed Area." Government issued cellphones must have the battery removed. "Q"/"L" Clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.

**Instructions:** In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns** Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions** Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents** List permits, operating manuals, and other procedures (if required in the field) | **Training and Qualification** (*special or unique to the area*) |
|---|---|---|---|---|
| ☐ **No work area hazards** | | | | |

Form 2101 (04/21) Page 1 of 3

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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

| | | | | |
|---|---|---|---|---|
| **Ionizing Radiation**<br>Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices.<br>**Specify Hazard:** Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. | ☐ Yes ☒ No | N/A | N/A | N/A |
| IWD No./Work Request No.: _____ Revision No.: _____ | | | | |
| **ESH/S&S WORK AREA HAZARDS AND CONTROLS** | | | | |
| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other reference procedures | **Training and Qualification**<br>List training requirements |
| **Worker Exposure**<br>Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Energized and Operative Systems**<br>Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Confined Spaces**<br>Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Elevated Work Surface**<br>Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, *Fall Protection Program*, or a surface not designed to support worker(s) and equipment. | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Environmental**<br>Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Security Requirements**<br>**Specify: Limited Security Area** | ☒ Yes ☐ No | • Q or L clearance<br>• Uncleared MUST be escorted | • P 200-2 Physical Security | N/A |

Form 2101 (04/21) Page 2 of 3

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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Other Hazards**<br>**Specify:** LEEDS (Low Energy Electro Explosives Devices) are present inside WETF | ☒ Yes ☐ No | All radio frequency generating activities (e.g. GPR, XRF, ETC.) Must be approved by the Operations Manager. | • P 101-8 Explosives Safety | N/A |
| I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.<br>**FOD or Representative** (Signature/Z Number/Date) **Approval Required**<br>WFO OM/Designee Signature-on-File | | | | |



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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

Form 2101

Los Alamos NATIONAL LABORATORY

### Integrated Work Document (IWD) Part 2
### FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

IWD No./Work Request No: WFO-IWD-0016 Revision No.: R-IPC1

The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.

| | | | | |
|---|---|---|---|---|
| FOD<br>03 | TA<br>16 | Bldg.<br>450 | Room<br>160, 161, 162, 163, Equipment Rooms | Other Location<br>Roof |
| **FOD Designated Facility Point-of-Contact** | Name<br>Don Hyatt<br>Mel Ortiz<br>Cipriano Vigil | Phone<br>7-7519<br>7-4519<br>6-3363 | Pager<br>4-6314<br>4-3070<br>4-7384 | Email<br>hyatt@lanl.gov<br>msortiz@lanl.gov<br>cfvigil@lanl.gov |

**General Requirement/Guidance:**

- Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training.
- Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.

**Entry and Coordination Requirements (*check one or more of the following*):**

- ☐ No entry/coordination requirements
- ☒ Schedule work with the FOD
- ☒ Attend Plan of the Day/Plan of the Week (POTD/POTW)
- ☒ Security clearance or escort required
- ☒ Other security requirements (e.g., no cellphone or foreign nationals)
- ☒ Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)
- ☒ FOD-designated facility point-of-contact must sign IWD Part 3
- ☒ Facility-specific or other work area training required
- ☒ Check in daily
- ☒ Check out daily
- ☐ Quality issues
- ☐ Non-security escort required
- ☐ Other bounding conditions: _____

**Additional Comments:**
WETF is a Category II Nuclear Facility, Check in with the WETF Duty Operator, 7-2060, prior to start of work. The WETF work control process must be followed. Security requirements: No 2-way pagers or personal cell phones. Government Iphones/Blackberries are allowed except in the "Closed Area." Government issued cellphones must have the battery removed. "Q"/"L" Clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.

**Instructions:** In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other procedures (if required in the field) | **Training and Qualification**<br>(*special or unique to the area*) |
|---|---|---|---|---|
| ☐ **No work area hazards** | | | | |

Form 2101 (04/21) Page 1 of 3

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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Ionizing Radiation**<br>Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices.<br>**Specify Hazard:** Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. | ☐ Yes ☒ No | N/A | N/A | N/A |
| IWD No./Work Request No.: _____ Revision No.: _____ | | | | |
| **ESH/S&S WORK AREA HAZARDS AND CONTROLS** | | | | |
| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other reference procedures | **Training and Qualification**<br>List training requirements |
| **Worker Exposure**<br>Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Energized and Operative Systems**<br>Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Confined Spaces**<br>Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Elevated Work Surface**<br>Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, *Fall Protection Program*, or a surface not designed to support worker(s) and equipment. | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Environmental**<br>Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Security Requirements**<br>**Specify: Limited Security Area** | ☒ Yes ☐ No | • Q or L clearance<br>• Uncleared MUST be escorted | • P 200-2 Physical Security | N/A |

Form 2101 (04/21) Page 2 of 3

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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Other Hazards**<br>**Specify:** LEEDS (Low Energy Electro Explosives Devices) are present inside WETF | ☒ Yes ☐ No | All radio frequency generating activities (e.g. GPR, XRF, ETC.) Must be approved by the Operations Manager. | • P 101-8 Explosives Safety | N/A |
| I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.<br>**FOD or Representative** (Signature/Z Number/Date) **Approval Required**<br>WFO OM/Designee Signature-on-File | | | | |



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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

Form 2101

Los Alamos NATIONAL LABORATORY

### Integrated Work Document (IWD) Part 2
### FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

IWD No./Work Request No: WFO-IWD-0016 Revision No.: I-IPC1

The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.

| | | | | |
|---|---|---|---|---|
| FOD<br>03 | TA<br>16 | Bldg.<br>450 | Room<br>ALL | Other Location<br>Roof |
| **FOD Designated Facility Point-of-Contact** | Name<br>Don Hyatt<br>Mel Ortiz<br>Cipriano Vigil | Phone<br>7-7519<br>7-4519<br>6-3363 | Pager<br>4-6314<br>4-3070<br>4-7384 | Email<br>hyatt@lanl.gov<br>msortiz@lanl.gov<br>cfvigil@lanl.gov |

**General Requirement/Guidance:**
- Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training.
- Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.

**Entry and Coordination Requirements (*check one or more of the following*):**

☐ No entry/coordination requirements
☒ Schedule work with the FOD
☒ Attend Plan of the Day/Plan of the Week (POTD/POTW)
☒ Security clearance or escort required
☒ Other security requirements (e.g., no cellphone or foreign nationals)
☒ Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)
☒ FOD-designated facility point-of-contact must sign IWD Part 3
☒ Facility-specific or other work area training required
☒ Check in daily
☒ Check out daily
☐ Quality issues
☐ Non-security escort required
☐ Other bounding conditions: _____

**Additional Comments:**
WETF is a Category II Nuclear Facility, Check in with the WETF Duty Operator, 7-2060, prior to start of work. The WETF work control process must be followed. Security requirements: No 2-way pagers or personal cell phones. Government Iphones/Blackberries are allowed except in the "Closed Area." Government issued cellphones must have the battery removed. "Q"/"L" Clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.

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**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other procedures (if required in the field) | **Training and Qualification**<br>*(special or unique to the area)* |
|---|---|---|---|---|
| ☐ **No work area hazards** | | | | |

Form 2101 (04/21) Page 1 of 3

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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Ionizing Radiation**<br>Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices.<br>**Specify Hazard:** Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. | ☐ Yes ☒ No | N/A | N/A | N/A |

IWD No./Work Request No.: _____ Revision No.: _____

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other reference procedures | **Training and Qualification**<br>List training requirements |
|---|---|---|---|---|
| **Worker Exposure**<br>Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Energized and Operative Systems**<br>Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Confined Spaces**<br>Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Elevated Work Surface**<br>Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, *Fall Protection Program*, or a surface not designed to support worker(s) and equipment. | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Environmental**<br>Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Security Requirements**<br>**Specify: Limited Security Area** | ☒ Yes ☐ No | • Q or L clearance<br>• Uncleared MUST be escorted | • P 200-2 Physical Security | N/A |

Form 2101 (04/21) Page 2 of 3

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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Other Hazards**<br>**Specify:** LEEDS (Low Energy Electro Explosives Devices) are present inside WETF | ☒ Yes ☐ No | All radio frequency generating activities (e.g. GPR, XRF, ETC.) Must be approved by the Operations Manager. | • P 101-8 Explosives Safety | N/A |
| I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.<br>**FOD or Representative** (Signature/Z Number/Date) **Approval Required**<br>WFO OM/Designee Signature-on-File | | | | |



**Users are responsible for obtaining the most current version of the 2101 Form From WFO 2101s web page**

## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

Form 2101

Los Alamos NATIONAL LABORATORY

### Integrated Work Document (IWD) Part 2
### FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

IWD No./Work Request No: WFO-IWD-0016 Revision No.: 1-IPC1

The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.

| FOD | TA | Bldg. | Room | Other Location |
|---|---|---|---|---|
| 03 | 16 | 824 | ALL | Roof |
| **FOD Designated Facility Point-of-Contact** | Name | Phone | Pager | Email |
| | Don Hyatt | 7-7519 | 4-6314 | hyatt@lanl.gov |
| | Mel Ortiz | 7-4519 | 4-3070 | msortiz@lanl.gov |
| | Cipriano Vigil | 6-3363 | 4-7384 | cfvigil@lanl.gov |

**General Requirement/Guidance:**
- Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training.
- Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.

**Entry and Coordination Requirements (*check one or more of the following*):**

- ☐ No entry/coordination requirements
- ☒ Schedule work with the FOD
- ☒ Attend Plan of the Day/Plan of the Week (POTD/POTW)
- ☒ Security clearance or escort required
- ☒ Other security requirements (e.g., no cellphone or foreign nationals)
- ☒ Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)
- ☒ FOD-designated facility point-of-contact must sign IWD Part 3
- ☒ Facility-specific or other work area training required
- ☒ Check in daily
- ☒ Check out daily
- ☐ Quality issues
- ☐ Non-security escort required
- ☐ Other bounding conditions: _____

**Additional Comments:**
WETF is a Category II Nuclear Facility. Check in with the WETF Duty Operator, 7-2060, prior to start of work. The WETF work control process must be followed. Security requirements: No 2-way pagers or personal cell phones. Government Iphones/Blackberries are allowed except in the "Closed Area." Government issued cellphones must have the battery removed. "Q"/"L" Clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.

**Instructions:** In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns** Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions** Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents** List permits, operating manuals, and other procedures (if required in the field) | **Training and Qualification** *(special or unique to the area)* |
|---|---|---|---|---|
| ☐ **No work area hazards** | | | | |



**Users are responsible for obtaining the most current version of the 2101 Form From WFO 2101s web page**

## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Ionizing Radiation**<br>Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices.<br>**Specify Hazard:** Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. | ☐ Yes ☒ No | N/A | N/A | N/A |
| IWD No./Work Request No.: ____ Revision No.: ____ | | | | |
| **ESH/S&S WORK AREA HAZARDS AND CONTROLS** | | | | |
| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other reference procedures | **Training and Qualification**<br>List training requirements |
| **Worker Exposure**<br>Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Energized and Operative Systems**<br>Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Confined Spaces**<br>Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Elevated Work Surface**<br>Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, *Fall Protection Program*, or a surface not designed to support worker(s) and equipment. | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Environmental**<br>Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment.<br>**Specify Hazards:** | ☐ Yes ☒ No | N/A | N/A | N/A |
| **Security Requirements**<br>**Specify: Limited Security Area** | ☒ Yes ☐ No | • Q or L clearance<br>• Uncleared MUST be escorted | • P 200-2 Physical Security | N/A |

Form 2101 (04/21) Page 2 of 3

**Users are responsible for obtaining the most current version of the 2101 Form From WFO 2101s web page**

## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Other Hazards**<br>**Specify:** LEEDS (Low Energy Electro Explosives Devices) are present inside WETF | ☐ Yes ☒ No | N/A | N/A | N/A |
| I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.<br>**FOD or Representative** (Signature/Z Number/Date) **Approval Required**<br>WFO OM/Designee Signature-on-File | | | | |



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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

Form 2101

Los Alamos NATIONAL LABORATORY

### Integrated Work Document (IWD) Part 2
### FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

IWD No./Work Request No: WFO-IWD-0016 Revision No.: I-IPC1

The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.

| FOD<br>WFO | TA<br>15 | Bldg.<br>312 | Room<br>All Interior Spaces | Other Location |
|---|---|---|---|---|
| **FOD Designated Facility Point-of-Contact** | Name<br>WFO OM Designee | Phone<br>https://int.lanl.gov/org/ddw/aldw/weapons-facilities-operations/organization/wfo-do/wfo-points-of-contact.shtml | Pager | Email<br>wfo-operations@lanl.gov |

**General Requirement/Guidance:**

- Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training.
- Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.

**Entry and Coordination Requirements (*check one or more of the following*):**

- ☐ No entry/coordination requirements
- ☒ Schedule work with the FOD
- ☒ Attend Plan of the Day/Plan of the Week (POTD/POTW)
- ☒ Security clearance or escort required
- ☒ Other security requirements (e.g., no cellphone or foreign nationals)
- ☒ Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)
- ☒ FOD-designated facility point-of-contact must sign IWD Part 3
- ☐ Facility-specific or other work area training required
- ☒ Check in daily
- ☒ Check out daily
- ☐ Quality issues
- ☐ Non-security escort required
- ☐ Other bounding conditions: _____

**Additional Comments:**

All work at DARHT must bon the approved DARHT Plan of the Day (POD). Workers must sign in and out on a daily basis.
This IWD Part 2 does not address any activities that require:
- Penetrations or disturbing surface areas.
- Entry into confined spaces.
- Elevated worksurfaces.

In these situations, the IWD Part 1, Activity specific information must address these hazards.

ABNORMAL EVENTS: Any injury, accident, spill, off normal occurrence, etc. MUST be reported immediately to the WFO-FOD Duty Officer @ 664-2926 AND TA-16 Access Control Office @ 665-3558.

**Instructions:** In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

Form 2101 (04/21) Page 1 of 3

**Users are responsible for obtaining the most current version of the 2101 Form From WFO 2101s web page**

## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other procedures (if required in the field) | **Training and Qualification**<br>(*special or unique to the area*) |
|---|---|---|---|---|
| ☐ **No work area hazards** | | | | |
| **Ionizing Radiation**<br>Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices.<br>**Specify Hazard:** | ☒ Yes ☐ No | Accelerator Halls and the Weather Enclosure are exclusion areas during Accelerator Mode 2 or 3 operations. | | GERT; TA-15 Access Control check-in and DARHT facility specific training; TLD as required by posting. |

IWD No./Work Request No.: _____ Revision No.: _____

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other reference procedures | **Training and Qualification**<br>List training requirements |
|---|---|---|---|---|
| **Worker Exposure**<br>Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives.<br>**Specify Hazards:**<br>Gases/Cryogens in Axis I High Bay Rm. 115 | ☒ Yes ☐ No | **Follow All Postings**<br>**High Explosives (HE) hazard only when shot, storage or handling opearions are active.**<br>**A secured firing site (clearance zone) shall be established.**<br>**Lights, horns, and sirens are used to notify personnel of firing operations.**<br>**Check in with TA-15 ACO.**<br>This building contains gases/cryogens that may result in an oxygen defficient atmosphere. Low Oxygen Alarms are present and must be obeyed, do not enter Axis I Acclerator Hall/High Bay with an active Low Oxygen Alarm. | | WFO-TRN-005<br>Required Reading 30299 required for unescorted visitor personnel. |



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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Energized and Operative Systems**<br>Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations.<br>**Specify Hazards:** | ☐ Yes ☒ No | | | |
| **Confined Spaces**<br>Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment.<br>**Specify Hazards:** | ☐ Yes ☒ No | | | |
| **Elevated Work Surface**<br>Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, *Fall Protection Program*, or a surface not designed to support worker(s) and equipment. | ☐ Yes ☒ No | | | |
| **Environmental**<br>Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment.<br>**Specify Hazards:** | ☐ Yes ☒ No | | | |
| **Security Requirements**<br>**Specify:**<br>**VTR in Rooms 110 & 121** | ☒ Yes ☐ No | •Q or L clearance<br>•Uncleared MUST be escorted | P 200-2 Physical Security | Escort Training |
| **Other Hazards**<br>**Specify:** | ☐ Yes ☐ No | | | |
| I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.<br>**FOD or Representative** (Signature/Z Number/Date) **Approval Required**<br>WFO OM/Designee Signature-on-File | | | | |

Form 2101 (04/21) Page 3 of 3

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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

Form 2101

Los Alamos NATIONAL LABORATORY

**Integrated Work Document (IWD) Part 2**
**FOD Requirements and Approval for Entry and Area Hazards and Controls**
Non-Tenant

IWD No./Work Request No: WFO-IWD-0016 Revision No.: I-IPC1

The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.

| FOD<br>WFO | TA<br>15 | Bldg.<br>312 | Room<br>All Exterior Spaces | Other Location |
|---|---|---|---|---|
| **FOD Designated Facility Point-of-Contact** | Name<br>WFO OM Designee | Phone<br>https://int.lanl.gov/org/ddw/aldw/weapons-facilities-operations/organization/wfo-do/wfo-points-of-contact.shtml | Pager | Email<br>wfo-operations@lanl.gov |

**General Requirement/Guidance:**
- Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training.
- Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.

**Entry and Coordination Requirements (*check one or more of the following*):**

☐ No entry/coordination requirements
☒ Schedule work with the FOD
☒ Attend Plan of the Day/Plan of the Week (POTD/POTW)
☒ Security clearance or escort required
☒ Other security requirements (e.g., no cellphone or foreign nationals)
☒ Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)
☒ FOD-designated facility point-of-contact must sign IWD Part 3
☐ Facility-specific or other work area training required
☒ Check in daily
☒ Check out daily
☐ Quality issues
☐ Non-security escort required
☐ Other bounding conditions: _____

**Additional Comments:**
All work at DARHT must bon the approved DARHT Plan of the Day (POD). Workers must sign in and out on a daily basis.
This IWD Part 2 does not address any activities that require:
- Penetrations or disturbing surface areas.
- Entry into confined spaces.
- Elevated worksurfaces.

In these situations, the IWD Part 1, Activity specific information must address these hazards.

ABNORMAL EVENTS: Any injury, accident, spill, off normal occurrence, etc. MUST be reported immediately to the WFO-FOD Duty Officer @ 664-2926 AND TA-16 Access Control Office @ 665-3558.

**Instructions:** In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

Form 2101 (04/21) Page 1 of 3

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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other procedures (if required in the field) | **Training and Qualification**<br>*(special or unique to the area)* |
|---|---|---|---|---|
| ☐ **No work area hazards** | | | | |
| **Ionizing Radiation**<br>Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices.<br>**Specify Hazard:** | ☒ Yes ☐ No | Accelerator Halls and the Weather Enclosure are exclusion areas during Accelerator Mode 2 or 3 operations. | | GERT; TA-15 Access Control check-in and DARHT facility specific training; TLD as required by posting. |

IWD No./Work Request No.: _____ Revision No.: ____

**ESH/S&S WORK AREA HAZARDS AND CONTROLS**

| **Work Area Hazards/Concerns**<br>Identify site hazards and concerns that could potentially affect the worker(s) or others. | **Work Area Hazard Present** | **Facility Controls/ Preventive Measures/ Bounding Conditions**<br>Specify preventive measures, controls, and bounding conditions for each site hazard | **Reference Documents**<br>List permits, operating manuals, and other reference procedures | **Training and Qualification**<br>List training requirements |
|---|---|---|---|---|
| **Worker Exposure**<br>Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives.<br>**Specify Hazards:**<br>Gases/Cryogens in Axis I High Bay Rm. 115 | ☒ Yes ☐ No | **Follow All Postings**<br>**High Explosives (HE) hazard only when shot, storage or handling opearions are active.**<br>**A secured firing site (clearance zone) shall be established.**<br>**Lights, horns, and sirens are used to notify personnel of firing operations.**<br>**Check in with TA-15 ACO.**<br>This building contains gases/cryogens that may result in an oxygen defficient atmosphere. Low Oxygen Alarms are present and must be obeyed, do not enter Axis I Acclerator Hall/High Bay with an active Low Oxygen Alarm. | | WFO-TRN-005<br>Required Reading 30299 required for unescorted visitor personnel. |



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## Attachment B
## Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd

| | | | | |
|---|---|---|---|---|
| **Energized and Operative Systems**<br>Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations.<br>**Specify Hazards:** | ☐ Yes ☒ No | | | |
| **Confined Spaces**<br>Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment.<br>**Specify Hazards:** | ☐ Yes ☒ No | | | |
| **Elevated Work Surface**<br>Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, *Fall Protection Program*, or a surface not designed to support worker(s) and equipment. | ☐ Yes ☒ No | | | |
| **Environmental**<br>Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment.<br>**Specify Hazards:** | ☐ Yes ☒ No | | | |
| **Security Requirements**<br>**Specify:**<br>**VTR in Rooms 110 & 121** | ☒ Yes ☐ No | •Q or L clearance<br>•Uncleared MUST be escorted | P 200-2 Physical Security | Escort Training |
| **Other Hazards**<br>**Specify:** | ☐ Yes ☐ No | | | |
| I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.<br>**FOD or Representative** (Signature/Z Number/Date) **Approval Required**<br>WFO OM/Designee Signature-on-File | | | | |

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## Attachment C Integrated Work Document (IWD) Part 2 (Tenant)

Form 2102

Los Alamos NATIONAL LABORATORY

**Integrated Work Document (IWD) Part 2**
**FOD Requirements and Approval for Entry and Area Hazards and Controls**
Tenant Activity

IWD No./Work Request No: WFO-IWD-0016 Revision #: J

FOD must determine the facility entry and coordination requirements and identify the ESH/S&S hazards and controls associated with the activity location.

| | | | | |
|---|---|---|---|---|
| FOD<br>03 | TA<br>6,8,9,11,14,15,16,22,36,37, 39,40,49, 67, 68 | Bldg.<br>ALL except WETF & DARHT | Room<br>ALL | Other Location<br>NA/ |
| **FOD Designated Facility Point-of-Contact** | Name<br>WFO OM Designee | Phone<br>https://int.lanl.gov/org/ddw/aldw/weapons-facilities-operations/organization/wfo-do/wfo-points-of-contact.shtml | Pager | Email<br>wfo-operations@lanl.gov |

**General Requirement/Guidance:**

- Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training.
- Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.

**Entry and Coordination Requirements** (*check one or more of the following*):

- ☐ No entry/coordination requirements
- ☐ Schedule work with the FOD
- ☐ Attend Plan of the Day/Plan of the Week (POTD/POTW)
- ☒ Security clearance or escort required
- ☒ Other security requirements (e.g., no cellphone or foreign nationals)
- ☐ Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)
- ☐ FOD-designated facility point-of-contact must sign IWD Part 3
- ☒ Facility-specific or other work area training required
- ☐ Check in daily
- ☐ Check out daily
- ☐ Quality issues
- ☐ Non-security escort required
- ☐ Other bounding conditions: _____

**Instructions:** In the block below, provide facility or work area information needed by the workers on this activity. Consider including specific work area hazards and controls, potential conflicts with co-located activities, or any facility restrictions for the activity. Identify relevant reference documents and any training required.

**Facility/Work Area Information Relevant to this Activity**

WARNING
THE CROSSING OR PASSING OF ANY BARRICADE—CHAIN, CLOSED GATE, ROADBLOCK, WARNING SIGN, FENCE ROPE—IS STRICTLY FORBIDDEN WITHOUT THE EXPLICIT, IMMEDIATE PERMISSION OF THE HE POC.

This includes; no climbing over, ducking under, or walking around a closed barrier or gate.

ACCESS CONTROL for (TA-6, 8, 9, 11, 14, 15, 16, 22 , 36, 39, 40, 49, 67, 68)

Entry Conditions for all areas:
Work requires check-in first with appropriate ACO for access to fire roads, canyons, etc. and to get a radio. Inform Access Control what locations and routes will be taken while on site and receive a briefing on site hazards (Use a map of area if possible). NOTE: TA-08-0070 is an active HE facility where access is not controlled through TA-8 ACO. Visitors must check in with M-6 personnel for access. For TA-6 Met Tower and TA-6-0154 Visitors must check in with TA-40 ACO for access. For TA-6-0124 Visitors must check in with TA-22 ACO for access.

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## Attachment C Integrated Work Document (IWD) Part 2 (Tenant) (cont'd)

VTRs within the HE Area will require coordination with respective program to ensure programmatic activities are not occuring.

ACCESS CONTROL for (TA-6, 8, 9, 11, 14, 15, 16, 22 , 36, 39, 40, 49, 67, 68), continued

SPECIFY HAZARDS:
- PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.
- Notify WFO Environmental Generalist, if required.
- Work during threatened and endangered species seasons restricts outdoor activities.
- Excavation Permit for soil disturbance activities

CAUTION: This is an HE area and uses Radiography equipment –Work group shall adhere to all local ACO instructions as to where access is allowed and where it is restricted, e.g. areas around HE facilities, magazines and buildings performing radiography.

CAUTION: This area has resumed High Explosive Operations or is a Firing Site. Worker shall adhere to all local ACO instructions and posted area as to where access is allowed and where it is restricted.

ESH CONCERNS: Entry into Designated/ Posted Contamination Areas: Beryllium, Depleted Uranium, High Explosive may be required. Notify ACO prior to accessing area to ensure area is safe for activities and to coordinate RCT support.
- Follow all postings
- Contact applicable SME as needed: IH, RCT, ExSO

**Reference Documents** (*if needed in the field*): P101-8, Explosives Safety; P121 Radiation Protection; P101-21 Chronic Beryllium Disease Prevention Program

**Training Requirements** (*special or unique to the area*): Per: WFO-IWD-0001, Walk-arounds, Inspections, Surveillances, Trouble-Shooting, Scoping, Minor Adjustments, Forklift, Repairs and Related Tasks for Facility Operations and Maintenance

**Area Hazards and Controls:**
ABNORMAL EVENTS: Any injury, accident, spill, off normal occurrence, etc. MUST be reported immediately to the WFO-FOD Duty Officer @ 505-664-2926, Emergency Operations Support Center (505-667-2400), and to the applicable ACO as shown below:

TA-8: Phone: 667-2283 Email: ta8aco@lanl.gov Radio: WFO-CO1. NOTE: TA-08-0070 -VISITORS MUST CHECK WITH M-6 personnel for access.
TA-9: Phone: 665-3558 Email: ta9aco@lanl.gov Radio: TA09-ACO
TA-14, 15, and 36: Phone: 667-6742 Email: ta15aco@lanl.gov Radio: TA15-ACO
TA-11,16, 37, and 49: Phone: 667-9192 Email: ta16aco@lanl.gov Radio: TA16-ACO
TA-6 and TA-22: Phone: 606-0928 Email: ta-22aco@lanl.gov Radio: TA22-ACO
TA-39: Phone: 667-6881 Email: ta39aco@lanl.gov Radio: TA39-ACO
TA-6 and 40: Phone: 665-6825 Email: ta40aco@lanl.gov Radio: TA40-ACO

**FOD Approval**

I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.

**FOD or Representative** (Signature/Z Number/Date) **Approval Required**

WFO OM/Designee Signature-on-File ALLISON ELLERSON (Affiliate) Digitally signed by ALLISON ELLERSON (Affiliate) Date: 2024.06.12 07:53:45 -06'00'

## Attachment D Integrated Work Document (IWD) Part 3 Validation and Work Release

**Form 2103**

### Integrated Work Document (IWD) Part 3, Validation and Work Release

- **IWD #WFO-IWD-0016** **Revision #:J** Work Release

By signing below, I verify this activity is compatible with current facility configuration and operating conditions.
**FOD designated Operations Manager or other facility point-of-contact** for work area

Signature/Z#/Date **(If required by FOD)**: _Signature on Cover Page_____
*Note: For Standing IWD, release may be given concurrently with signatures on Part 2*.

By signing below, I have verified the following:

- I have verified authorization by ensuring approval signatures of the RLM and FOD.
- I have jointly conducted a validation walkdown with workers to confirm the IWD can be performed as written, and that required initial conditions and other prerequisites are in place.
- The assigned workers are authorized and are competent to perform the work in a safe, secure, and environmentally responsible manner.
- I have conducted the pre-job briefing, and all workers (including support workers) have been briefed.
- I have ensured coordination with any required FOD work-area representatives (e.g., area work coordinators).

**PIC** (Signature/Z#/Date) **Required**: _____

Alternate PIC Signatures **acknowledges** PIC authority is assumed for the first time. *(Note: Alternate PICs are required to sign only once, but formal handoff includes conferring with previous PIC to obtain all required information associated with the handoff.)*

**Alternate PIC** (Signature/Z#/Date) **Required**: _____

**Alternate PIC** (Signature/Z#/Date) **Required**: _____

**Pre-Job Brief Content**

- What are the critical steps* or phases of this activity?
- How can we make a mistake at that point?
- What is the worst thing that can go wrong?
- What controls, preventive measures, and bounding conditions are needed?
- What work permits are required and how will we meet their requirements?
- What are the handoffs and coordination requirements among workers and multiple PICs?
- Are there hold-points including those that require sign-offs?
- What are the pause/stop work responsibilities and expectations (e.g., for unanticipated conditions or hazards)?
- How would we respond to alarms and emergencies?
- Are there lessons learned from previous similar work?
- Is other information needed to perform this activity in a safe, secure, and environmentally responsible manner?
- Does everyone agree to the work tasks/steps, hazards, and controls and commit to follow them?

* "Critical steps occur anytime human performance involves a substantial transfer of energy, or movement of solids, liquids, and gases, or the transmission of data and information that , if not performed under control, could cause serious harm to one or more important assets." (Performance Improvement, vol. 53, no. 9, October 2014)

## Attachment D
## Integrated Work Document (IWD) Part 3
## Validation and Work Release (cont'd)

I**WD #**WFO-IWD-0016 **Revision #:**J Work Release

| **IWD No:WFO-IWD-0016 Revision No.: J** |
|---|
| **Pre-Job Brief Attendance Roster (continued)** |

By signing below **as required**, I agree to the following:

- I agree to follow the work steps and implement the controls as written, as applicable to my work assignments.
- I agree to pause/stop work when conditions or hazards change or when I encounter unexpected conditions during the execution of work, or when work cannot be performed as written, or instructions become unclear during execution.
- I confirm that I am authorized, qualified, and fit to perform the work.

| | |
|---|---|
| **Worker** (Signature/Z Number/Date) | **Worker** (Signature/Z Number/Date) |
| **Worker** (Signature/Z Number/Date) | **Worker** (Signature/Z Number/Date) |
| **Worker** (Signature/Z Number/Date) | **Worker** (Signature/Z Number/Date) |
| **Worker** (Signature/Z Number/Date) | **Worker** (Signature/Z Number/Date) |
| **Worker** (Signature/Z Number/Date) | **Worker** (Signature/Z Number/Date) |
| **Worker** (Signature/Z Number/Date) | **Worker** (Signature/Z Number/Date) |
| **Worker** (Signature/Z Number/Date) | **Worker** (Signature/Z Number/Date) |
| **Worker** (Signature/Z Number/Date) | **Worker** (Signature/Z Number/Date) |
| **Worker** (Signature/Z Number/Date) | **Worker** (Signature/Z Number/Date) |

**PIC** (Signature/Z Number/Date) **Required**: _____

## Attachment E Integrated Work Document (IWD) Part 4 Feedback/Post Job Reviews

**IWD #:** WFO-IWD-0016 **Revision #:** J

Feedback of ongoing activities/post job review with the workers and Person in Charge (PIC) should include the following:

- identify inefficiencies, problems during the activity, coordination issues, unanticipated conditions, near misses; and
- develop recommendations for improvement.

A post-job review with the workers and PIC should include the following:

- verify that the activity is complete and make notifications in accordance with Facility Operations Director (FOD) requirements; and
- ensure that follow-through actions (e.g., clean-up, recycle, waste disposal, equipment removal, and secure storage) are completed.

| |
|---|
| Lessons learned; safety, security, and environmental issues; coordination issues; and unexpected conditions. |
| Suggested improvements to enter into the Job Hazard Analysis (JHA) Tool, FootPrints, or other Integrated Work Control data bases supported by Lessons Learned. |
| Other recommendations for improvements to performing this activity. State the positive attributes of this activity. |

**Completion Statement**

| Name (print) of PIC/Z #: | Signature | Date |
|---|---|---|
| | | |

## ATTACHMENT 25: WEAPONS FACILITIES OPERATIONS CLEAN FILL ACCEPTANCE AND REUSE PROCESS

| Document Number: | WFO-OP-415 |
|---|---|
| Revision: | B |

# Weapons Facilities Operations TA-16-0280 Stockpile Clean Fill Acceptance and Reuse Process

| **Effective Date:** 05/26/2022 | **Next Review Date:** ~~05/26/2024~~ 05/26/2026 (RNC) |
|---|---|

**Review Cycle:** ☐ 1 year ☒ 2 years ☐ 3 years

**Usage Mode:** ☐ Reference ☒ UET ☐ Both UET & Reference

***Reviewed and Approved for Use By:***

| | Printed Name | Z# | Org | Signature | Date |
|---|---|---|---|---|---|
| Document Preparer/Responsible Person | Kelkenny Bileen | 178009 | EPC-CP | Kelkenny Bileen Digitally signed by Kelkenny Bileen Date: 2022.05.26 07:19:02 -07'00' | |
| Responsible Line Manager | Steven Story | 112890 | EPC-CP | STEVEN STORY (Affiliate) Digitally signed by STEVEN STORY (Affiliate) Date: 2022.05.26 10:38:34 -06'00' | |
| SME Reviewer | Holly Wheeler | 118432 | EPC-CP | HOLLY WHEELER (Affiliate) Digitally signed by HOLLY WHEELER (Affiliate) Date: 2022.05.26 11:45:28 -06'00' | |

***Approved and Authorized for Use By:***

| | Printed Name | Z# | Org | Signature | Date |
|---|---|---|---|---|---|
| Facility Operations Director (FOD) | Derek Clark | 332752 | WFO-DO | PETER RICE (Affiliate) Digitally signed by PETER RICE (Affiliate) Date: 2022.05.26 13:43:49 -06'00' | |

**Derivative Classification Review**

If this document is OUO, UCNI and/or Classified, add the appropriate markings, distribution limitation statement, and guidance data block (s) to document cover page.

☒ Unclassified ☐ Official Use Only ☐ Unclassified Controlled Nuclear Information

**Guidance Used:** CG-SS-5

| DC/RO Name/Z Number: | Organization: | Signature: | Date: |
|---|---|---|---|
| Robert Swickley/228406 | WFO-DO | ROBERT SWICKLEY (Affiliate) Digitally signed by ROBERT SWICKLEY (Affiliate) Date: 2022.05.11 15:49:49 -06'00' | 05/11/2022 |

***For Document Control Team Reference:***

☐ USQ *(applicable to WETF)* ☐ USI *(applicable to DARHT)* ☒ N/A

**Users are responsible for verifying that they are working to the most current revision of a document.**

# WFO Document Extension Cover Page

*(Place document extension cover page in front of document approval cover pages)*

| | | | |
|---|---|---|---|
| Document Number: | WFO-OP-415 | | |
| Document Title: | Weapons Facilities Operations TA-16-0280 Stockpile Clean Fill Acceptance and Reuse Process | | |
| Revision: | B | Extension # : *(i.e. 1, 2, etc.)* | 1 |

| | | | |
|---|---|---|---|
| **Extension Effective Date:** | 06/24/2024 | **Next Review Date:** | 08/26/2024 |
| ***(Extension Approval Date)*** | | ***(Date Extended To)*** | |

**Document Extension:**

- ☐ 30 Days
- ☐ 60 Days
- ■ **>60 Days** (see below for approvals)

**IWD Extension:** (***NOTE:*** *The original IWD expiration date may be extended ONLY* **ONCE**

- ☐ 30 Days
- ☐ 60 Days (***maximum extension allowance***)

**EXTENSION JUSTIFICATION** ***(enter justification for extension here)*:**

90-day extension to allow time to review and revise.

**APPROVALS:**

| | Printed Name | Org | Signature | Date |
|---|---|---|---|---|
| Responsible Line Manager | Steven Story, 112890 | EPC-DO | STEVEN STORY (Affiliate) Digitally signed by STEVEN STORY (Affiliate) Date: 2024.06.20 15:18:21 -06'00' | 06/20/2024 |

FOD Approval is **REQUIRED** for:

- Extension Requests greater than 60 days **OR** for documents extended more than once
- **ALL** IWD Extension Requests

| | Printed Name | Org | Signature | Date |
|---|---|---|---|---|
| Facility Operations Director (FOD) | Pete Rice, 214458 | WFO-DO | PETER RICE (Affiliate) Digitally signed by PETER RICE (Affiliate) Date: 2024.06.24 06:57:40 -06'00' | |

| Document Number: | WFO-OP-415 |
|---|---|
| Revision: | B |

# Weapons Facilities Operations TA-16-0280 Stockpile Clean Fill Acceptance and Reuse Process

| **Effective Date:** 05/26/2022 | **Next Review Date:** 05/26/2024 |
|---|---|

**Review Cycle:** ☐ 1 year ☒ 2 years ☐ 3 years

**Usage Mode:** ☐ Reference ☒ UET ☐ Both UET & Reference

***Reviewed and Approved for Use By:***

| | Printed Name | Z# | Org | Signature | Date |
|---|---|---|---|---|---|
| Document Preparer/Responsible Person | Kelkenny Bileen | 178009 | EPC-CP | Kelkenny Bileen Digitally signed by Kelkenny Bileen Date: 2022.05.26 07:19:02 -07'00' | |
| Responsible Line Manager | Steven Story | 112890 | EPC-CP | STEVEN STORY (Affiliate) Digitally signed by STEVEN STORY (Affiliate) Date: 2022.05.26 10:38:34 -06'00' | |
| SME Reviewer | Holly Wheeler | 118432 | EPC-CP | HOLLY WHEELER (Affiliate) Digitally signed by HOLLY WHEELER (Affiliate) Date: 2022.05.26 11:45:28 -06'00' | |

***Approved and Authorized for Use By:***

| | Printed Name | Z# | Org | Signature | Date |
|---|---|---|---|---|---|
| Facility Operations Director (FOD) | Derek Clark | 332752 | WFO-DO | PETER RICE (Affiliate) Digitally signed by PETER RICE (Affiliate) Date: 2022.05.26 13:43:49 -06'00' | |

**Derivative Classification Review**

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☒ Unclassified ☐ Official Use Only ☐ Unclassified Controlled Nuclear Information

**Guidance Used:** CG-SS-5

| DC/RO Name/Z Number: | Organization: | Signature: | Date: |
|---|---|---|---|
| Robert Swickley/228406 | WFO-DO | ROBERT SWICKLEY (Affiliate) Digitally signed by ROBERT SWICKLEY (Affiliate) Date: 2022.05.11 15:49:49 -06'00' | 05/11/2022 |

***For Document Control Team Reference:***

☐ USQ *(applicable to WETF)* ☐ USI *(applicable to DARHT)* ☒ N/A

**Users are responsible for verifying that they are working to the most current revision of a document.**

## REVISION HISTORY

| Revision | Effective Date | Action | Description |
|---|---|---|---|
| A | 05/21/2020 | New Procedure | |
| B | 05/26/2022 | Major Revision | Updated approvals on cover page. Changed title to *Weapons Facilities Operations TA-16-0280 Stockpile Clean Fill Acceptance and Reuse Program*; updated Sections 1.0, 2.0, 5.0, 5.2.1, 5.3, 5.4, 5.6, 5.7, 7.0, and 8.0. Updated examples in Attachments 1 and 2. Added new Sections 3.3, 3.4, and 5.6.1 (renumbered remaining sections accordingly). |
| B | 09/17/2024 | Reissue No Change | Per document owner no changes are required at this time. |

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## 4.0 TRAINING AND QUALIFICATION

The following required reading must be completed prior to implementing this procedure:

WFO-OP-415, *Weapons Facilities Operations TA-16-0280 Stockpile Clean Fill Acceptance*

## 5.0 PROCEDURAL STEPS

WFO operates and maintains the TA-16-0280 Stockpile Area for receipt, storage, and distribution of WFO clean fill. This section sets forth the requirements (a) for accepting material at the facility and (b) for accepting requests to use the material.

### 5.1 Clean Fill Criteria

1. Clean fill may contain the following materials only:
   a. Soil, including topsoil
   b. Soil and gravel
   c. Sand
   d. Tufa (a soft mixture of silica, calcium carbonate, and/or volcanic ash)
2. Clean fill may **NOT** contain:
   a. Pieces larger than 12 inches in diameter.
   b. Material that has been subjected to a spill or release of chemical contaminants, e.g., petroleum products.
   c. Material that has received prior treatment to remediate contamination.

   AND/OR

   d. Material containing land-clearing debris, construction and demolition debris, municipal solid waste, radioactive waste, hazardous waste, New Mexico special waste, or any other solid waste not meeting clean fill criteria.

### 5.2 Acceptance of Material

#### *5.2.1 Acceptance Criteria*

1. There must be a need for the material offered.
2. Material must meet the Clean Fill Criteria specified in Section 5.1.
3. All material analytical data will be screened to New Mexico Environmental Department (NMED) Technical Background Document for Development of Soil Screening Levels for residential use.
4. The following documentation must be provided:
   a. All projects will need to sample for the full analytical suite (VOCs, SVOCs, PCBs, radiological constituents, total metals and HE).

**OR**

b. Acceptable Knowledge (AK) Documentation, provided by Material Generator.

**OR** (IF AK DOCUMENTATION IS NOT AVAILABLE)

c. Database Verification, performed by EPC-CP WFO DEP/Verifier, equivalent to acceptable AK documentation; see Section 5.4.1, Step 3 below.

## 5.3 Process for Acceptance

### *5.3.1 Material Generator*

| | |
|---|---|
| [1] | **COMPLETE** WFO TA-16-0280 Stockpile Clean Fill Acceptance Request Form (WFO-FORM-416). |
| [2] | **OBTAIN** and **ATTACH:**<br>a. Analytical results.<br>b. AK documentation if available. EPC-CP WFO DEP can assist Material Generator with the form and attachments. |
| [3] | **SUBMIT** completed form and documentation to EPC-CP WFO DEP. **Note:** Form may be submitted to EPC-CP WFO DEP via e-mail. |

## 5.4 Characterization/Verification

### *5.4.1 EPC-CP WFO DEP /Verifier*

| | |
|---|---|
| [1] | **COMPLETE** *Characterization/Verification* portion of WFO-FORM-416. |
| [2] | **REVIEW** Analytical results data as follows:<br>a. Compare analytical results to levels presented in Inorganic and Radionuclide Background Data for Soils, Canyon Sediments, and Bandelier Tuff at Los Alamos National Laboratory, Sept 22, 1998.<br>b. If Toxicity Characteristic Leaching Procedure (TCLP) analytical data is provided, compare results to regulatory TCLP levels.<br>c. Compare analytical results to NMED Technical Background Document for Development of Soil Screening Levels for residential use.<br>d. Ensure that petroleum analytical results meet the following requirements:<br>i. Benzene concentration ≤ 10 mg/kg.<br>ii. Total benzene, toluene, ethyl benzene, and xylene isomer (BTEX) concentration ≤ 50 mg/kg.<br>iii. Total petroleum hydrocarbon (TPH) concentration ≤ 100 mg/kg<br>(i.e., is below New Mexico Special Waste levels) |
| [3] | If necessary, **PERFORM** review of applicable databases (EX-ID, GIS, PRS, PR-ID, and Stack Emission d/base). To evaluate Be, DU, and HE see IRT GIS Map and WFO-MAP-016, *WFO Large Area Map.* |

| | |
|---|---|
| [4] | If you have concerns **(e.g., Haz, Rad, PCB, asbestos, HE),** based on these analytical results, refer Material Generator to WFO Waste Management Coordinator (WMC) for resolution.<br>**DO NOT** proceed until all concerns are resolved. |
| [5] | **PERFORM** field inspection of material for size, etc. (See Section 5.1 of this procedure.) |
| [6] | **IF** material is not acceptable (i.e., reusable), **THEN** reject it; explain reason for rejection. |
| [7] | **IF** you find that clean fill acceptance criteria are met, **THEN:**<br>**SIGN** and **DATE** verification and **SUBMIT** form to WFO-HE OM (or designee). |

## 5.5 Approval

### *5.5.1 WFO-HE Operations Manager (or designee)*

| | |
|---|---|
| [1] | **DETERMINE** and **CONCUR** that clean fill acceptance criteria have been met.<br>**Note:** WFO-HE Operations Manager (or designee) determination is made by reviewing the analytical data, applicable AK documentation, applicable databases, and manager's knowledge of the operation that generated the material. |
| [2] | **INDICATE** concurrence/approval by **SIGNING** and **DATING** certification on form.<br>**IF** not approved, **THEN** explain why. |
| [3] | **RETURN** form to EPC-CP WFO DEP. |

## 5.6 Transfer of Material

### *5.6.1 Material Generator*

| | |
|---|---|
| [1] | **SUBMIT** FSR for transfer of approved material after approval by WFO-HE Operations Manager (or designee). |
| [2] | **NOTIFY** WFO DEP when transfer of approved material is scheduled. |

### *5.6.2 EPC-CP WFO DEP*

| | |
|---|---|
| [1] | **CONFIRM** transfer of material when contacted by Material Generator. |
| [2] | **COMPLETE** last section of WFO TA-16-0280 Stockpile Clean Fill Acceptance Request Form (WFO-FORM-416). |
| [3] | **SEND** copy of form to Material Generator. |
| [4] | **FILE** documentation on the WFO Environmental server in the TA16-0280 Stockpile Clean Fill folder. |

## 5.7 Requesting Clean fill

### *5.7.1 Soil Requestor*

| | |
|---|---|
| [1] | **ACCESS** WFO TA-16-0280 Stockpile Soil Reuse Request Form (WFO-FORM-417). |
| [2] | **COMPLETE** the top portion of the form and **SUBMIT** to EPC-CP WFO DEP. **Note:** Form may be submitted to EPC-CP WFO DEP via e-mail. |

| | |
|---|---|
| [3] | **AFTER** the WFO DEP confirms availability of requested material, submit a FSR for transfer to the Soil Requestor's site. |

### *5.7.2 EPC-CP WFO DEP*

| | |
|---|---|
| [1] | Upon receipt of WFO TA-16-0280 Stockpile Soil Reuse Request Form (WFO-FORM-417), **DETERMINE** if requested material is available. |
| [2] | **IF** the material is available, **THEN** have Soil Requestor submit FSR for safe transfer to Soil Requestor's site. |
| [3] | **COMPLETE** bottom section of WFO TA-16-0280 Stockpile Soil Reuse Request Form.<br>**IF** material was not transferred, **THEN** explain under Comments.<br>**SIGN** and **DATE** WFO Soil Reuse Request form. |
| [4] | **PROVIDE** a copy of the signed form to the Soil Requestor and WFO-HE Operations Manager. **Note:** Copies of signed form may be sent to Soil Requestor and WFO-HE Operations Manager via e-mail. |
| [5] | **FILE** documentation on the WFO Environmental server in the TA16-0280 Stockpile Clean Fill folder. |

## 6.0 POST- PERFORMANCE ACTIVITY

### 6.1 Records Processing

Records generated while performing this procedure must be processed and maintained in accordance with WFO-AP-150, WFO Records Management Program.

## 7.0 REFERENCES

- IG-P409-0215, Construction and Demolition Debris Management
- NMED Technical Background Document for Development of Soil Screening Levels
- New Mexico Solid Waste Rules 20.9.2 – 20.9.10 NMAC
- WFO-AP-150, WFO Records Management Program

## 8.0 ACRONYMS/DEFINITIONS

### 8.1 Acronyms

| Term | Description |
|---|---|
| AK | Acceptable Knowledge (Documentation) |
| DEP | Deployed Environmental Professional |
| EPC-CP | Environmental Protection and Compliance-Compliance Programs |
| FOD | Facilities Operations Director |
| GIS | Geographic Information System |
| HE | High Explosive |
| IRT | Integrated Review Tool |
| LANL | Los Alamos National Laboratories |

| | |
|---|---|
| NMED | New Mexico Environmental Department |
| OM | Operations Manager |
| TA | Technical Area |
| TCLP | Toxicity Characteristic Leaching Procedure |
| WFO | Weapons Facilities Operations |
| WFO-HE | WFO High Explosives/Weapons Facilities |
| WMC | Waste Management Coordinator |

## 9.0 ATTACHMENTS

Attachment 1: *Example WFO TA-16-0280 Stockpile Clean Fill Acceptance Request Form*
Attachment 2: *Example WFO TA-16-0280 Stockpile Soil Reuse Request Form*

## ATTACHMENT 1
## Example WFO TA-16-0280 Stockpile Clean Fill Acceptance Request Form
Page 1 of 1

### WFO TA-16-0280 Stockpile Clean Fill Acceptance Request Form

| | | | |
|---|---|---|---|
| **Section 1: Soil Acceptance Request.** (Material Generator to fill in this section, then submit to EPC-CP WFO DEP; form may be submitted to EPC-CP WFO DEP via e-mail) | | | |
| Type of soil requested [e.g. top soil, soil/gravel, sand, tufa] | | Location of Soil: | |
| Volume [e.g. 1 yd³,5 yds³] | PR-ID# (f known) | | Excavation ID # |
| Generator/Requestor: | Print Name | Z-number | Cost Codes |
| Title | | Phone | Date |
| Subcontractor Technical Representative (STR) if applicable | | Name | Phone |
| **Section 2: Characterization/Verification.** (EPC-CP WFO DEP /Verifier to fill in this section, then submit to WFO-HE Operations Manager (OM) (or designee)) | | | |
| Analytical Report Attached? ☐ Yes ☐ No | | If not, why not? (explain) | |
| Compare Analytical Report to *Inorganic and Radionuclide Background Data for Soils, Canyon Sediments, Bandelier Tuff at Los Alamos National Laboratory, September 22, 1998*, and NMED background document for residential soil screening (SSLs): | | | OK? ☐ Yes ☐ N/A |
| Sampling Required: ☐ Yes ☐ N/A | | If yes, sample for what? (explain) | |
| Acceptable Knowledge (AK) Documentation attached? ☐ Yes ☐ No | | | If not, why not? (explain) |
| **Database verification.** (Required if AK Documentation is **NOT** attached. | | **Concerns** **(If there are concerns (e.g., Haz, Rad, PCB, asbestos), refer Material Generator to internal Waste Management Coordinator (WMC).** | |
| EX-ID database | No Concerns ☐ | | |
| GIS database | No Concerns ☐ | | |
| PRS database | No Concerns ☐ | | |
| PR-ID database | No Concerns ☐ | | |
| Stack emission d/base database | No Concerns ☐ | | |
| Field verification (size) | No Concerns ☐ | | |
| EPC-CP WFO DEP verifies that all material acceptance criteria have been satisfied. | EPC-CP WFO DEP Printed Name | Signature | Date |
| **Section 3: Approval.** (WFO-HE Operations Manager (OM) (or designee) to fill in this section, then return to EPC-CP WFO DEP) | | | |
| Approved: ☐ Yes ☐ No | | If not approved, why not? (explain) | |
| *I certify under penalty of law that I am familiar with the operation that generated the material through personal knowledge as well as AK information provided by Material Generator and verified in applicable databases and that to the best of my knowledge and belief the material contains no constituents that would cause it to be considered a waste or a pollutant.* | | | |
| WFO-HE Operations Manager (OM) (or designee) Printed Name | Signature | | Date |
| **Section 4: Receipt.** (DESH-WFO DEP to fill in this section, then send copy to Material Generator). | | | |
| **RECEIVED** ☐ **REJECTED** ☐ | | If rejected, explain why: | |
| EPC-CP WFO DEP Printed Name | Signature | | Date |

Example

WFO-FORM-416B
Ref. Doc.: WFO-OP-415

**ATTACHMENT 2**
**Example WFO TA-16-0280 Stockpile Soil Reuse Request Form**
Page 1 of 1

# WFO TA-16-0280 Stockpile Soil Reuse Request Form

| | | |
|---|---|---|
| **Section 1: Soil Reuse Request. (Soil Requestor to fill in this section) Note: Soil Requestor submits form to EPC-CP WFO DEP; form may be submitted to EPC-CP WFO DEP via e-mail.** | | |
| Type of soil requested [e.g. top soil, soil/gravel, sand, tufa] | Soil will be transferred to<br>TA- | |
| Volume [e.g. 1 $yd^3$,5 $yds^3$] | Excavation ID # | |
| **Comments:** | | |
| Soil Requestor Printed Name | Z-Number | Signature |
| Title | Phone | Date |
| **Section 2: Soil Reuse Request. (EPC-CP WFO DEP to fill in this section)** | | |
| Volume [e.g. 1 $yd^3$,5 $yds^3$] | Excavation ID # | |
| **Comments:** | | |
| **Section 3: Release (EPC-CP WFO DEP to fill in this section)** | | |
| DESH-WFO DEP Printed Name | Z-Number | Signature |
| Date | Phone | |
| **EPC-CP WFO DEP provides a copy of the signed form to Soil Requestor and WFO-HE Operations Manager (OM). NOTE: Copies of signed form may be sent to Soil Requestor and WFO-HE Operations Manager (OM) via e-mail.** | | |

Example

WFO-FORM-417B
Ref. Doc.: WFO-OP-415

## ATTACHMENT 26: P409, LANL WASTE MANAGEMENT

**No: P409**
Revision: 9

Issued: 10/03/24
Effective Date: 10/03/24

# LANL Waste Management

## 1.0 CONTACT

Environmental Protection and Compliance-Division Office (EPC-DO)
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## 2.0 AUTHORITY AND APPLICABILITY

### 2.1 Authority

- Issuing Authority: Associate Laboratory Director for Environment, Safety, Health, and Quality (ALDESHQ)
- Responsible Manager: Environmental and Waste Programs (EWP) Senior Director
- Responsible Office: Environmental and Waste Programs Office (EWPO)
- Owning Management System: Environmental Management and Stewardship (ENVIRT), Waste Management (WM)

### 2.2 Applicability

This document and its implementing procedures apply to all Laboratory facilities, workers, programs and activities under the jurisdiction of the management and operations prime contract, and in some cases to Los Alamos National Laboratory (LANL or the Laboratory) waste generating activities off-site. Laboratory workers include employees, guests, students, subcontractors (including lower tier subcontractors) and parent company workers performing work at LANL or other DOE owned or leased facility, in the absence of an equivalent waste management document.

### 2.3 Scope

This document provides the requirements necessary for responsible waste management at LANL to include planning, generation, determination and characterization, packaging, accumulation and storage, transportation, treatment, and disposal.

### 2.4 Associated Management Systems

This document is associated with the following management systems:

- Document Control and Records Management (DCRM)
- Emergency Management (EM)
- Facilities and Operations Management (FO)
- Institutional Quality & Performance Assurance (IQPA)
- Legal (LEGAL)
- Nuclear Safety Management (NSM)

- Safeguards and Security (S&S)
- Safety and Health (S&H)
- Training (TRNG)
- Radiation Protection (RP)

## 3.0 PURPOSE

This document describes the Triad National Security, LLC (Triad) waste management process at LANL, or the Laboratory. Specifically, this policy document describes the Laboratory's system for safely and compliantly characterizing, packaging, storing, treating, disposing, and transporting the various sanitary, hazardous, radioactive, and otherwise regulated wastes generated by LANL activities. This process includes the proper management of contaminated environmental media (e.g., excavated soil) and recyclable materials.

The Laboratory's waste management process has the following goals:

- To systematically plan, document, execute, and manage the Laboratory's various wastes;
- To manage waste from "cradle to grave" (generation to disposal);
- To protect the public, environment, and workers from exposure to radioactive and chemical wastes; and
- To comply with regulatory requirements.

As stated in P315, *Conduct of Operations Manual*, it is the policy of the Laboratory that the primary consideration in operation of its facilities is the safety of the public, workers, environment, and national security assets and to perform its operations effectively. The waste management system described in P409, *LANL Waste Management* and its various implementing procedures meets the P315 intention as it applies to wastes from Laboratory activities.

### 3.1 Introduction

The Laboratory creates a variety of wastes, each with its own regulatory requirements and disposal pathway. However, the basic waste management process is always the same, as illustrated in Fig. 1.

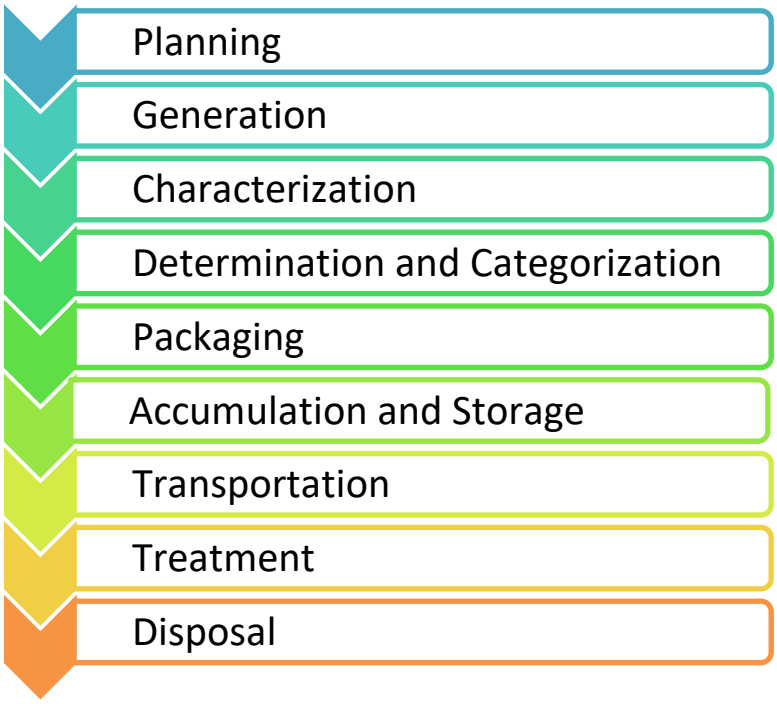



**Fig.1. LANL Waste Management Process**

This policy document provides a general overview of the Laboratory's waste management process, which includes both implementing activities and compliance assurance/oversight activities. It is the Laboratory's intention that waste management be a seamless collaboration between waste management personnel and other members of the Laboratory's workforce. This working partnership enhances the Laboratory's ability to perform research, improve facilities, and accomplish its mission.

This policy document describes the overall waste management process so the reader will have a general understanding of how waste is managed. Each process step will reference implementing documents (such as Functional Series Documents [FSDs], Administrative Procedures [APs], Technical Procedures [TPs], or Instructional Guidance [IG] documents) that will present the specific requirements, roles, and responsibilities for that activity. By implementing this document and its associated procedures, Laboratory personnel ensure that waste is managed safely, compliantly, efficiently, and in a cost-effective manner. Improper waste management may cause harm to personnel, the public, and the environment, as well as mission delays, rework, disciplinary actions, corrective or preventive actions, rejected waste, fines, or criminal charges. It is every Laboratory worker's responsibility to facilitate and support proper waste management.

### 3.2 Compliance Implementation and Assurance

Implementing the Laboratory's waste management system is a collaborative effort between Environment and Waste Programs (EWP) personnel and the various Laboratory Directorates. EWP is a program office housing several Laboratory Divisions. It is responsible for coordinating the efforts of all waste management organizations at LANL.

EWP provides Waste Management Coordinators (WMCs) to waste generating organizations and facilities to assist those organizations with planning, characterizing, packaging, and storing waste (Nuclear Process Infrastructure Division [NPI] provides these services for transuranic [TRU] and mixed transuranic [MTRU] waste generators). EWP also has waste management subject matter experts (SMEs) that collect waste characterization samples, analyze data, perform formal waste determinations, ship waste, perform waste-related subcontracting, maintain waste permits, and facilitate waste treatment and disposal.

**Table 1. Compliance Implementation and Assurance Activities**

| Implementation Activities | Assurance Activities |
|---|---|
| Planning | Assessments |
| Generation | Requirements Tracking |
| Characterization | Generator Assistance |
| Determination | Nevada Waste Disposition |
| Packaging | Compliance Oversight |
| Storage | Waste Verification |
| Transportation | Nevada Waste Certification |
| Treatment | Procedure Review |
| Disposal | Project Review |
| Permitting and Reporting | |
| Pollution Prevention | |
| Recordkeeping | |
| Training | |
| Difficult Waste Resolution | |

EWP implementation also includes procedure and other document reviews by appropriate SMEs. Procedures and work authorization documents (such as subcontract Exhibit D, Scopes of Work) for LANL projects or activities that involve generating or otherwise managing waste represent interrelated processes as described in P315, *Conduct of Operations Manual*. EWP provides WMCs, NPI personnel, and other SMEs to Responsible Line Managers (RLMs) to review and comment on the waste management aspects of interrelated process documents as part of a settlement agreement with the New Mexico Environment Department (NMED) for a 2014 incident.

In addition, the Laboratory is responsible for independently confirming that waste is being managed compliantly. The Environmental Protection and Compliance Division Waste Management Programs group (EPC-WMP) and NPI personnel perform this independent compliance assurance function, which includes routinely assessing all aspects of waste management. Table 1 shows the various implementation and assurance activities. See PD-P409-0001, *Waste Management Compliance Program,* for more information about the Laboratory's compliance assurance program.

### 3.3 Guiding Principles

The Laboratory's waste management process is designed to comply with federal and state regulations and Laboratory policies. Compliance with these regulations and policies is demonstrated with documented and defensible evidence. As such, the Laboratory has created the following guiding principles to communicate the intent and goals regarding proper waste management practices.

- All waste generating organizations at LANL will make reasonable and intentional efforts to estimate future waste generation rates.
- All waste generating organizations at LANL will dedicate adequate waste storage space and resources to effectively manage the expected waste.
- All waste generating organizations at LANL will make reasonable and intentional efforts to reduce waste volume and risk.
- The physical, chemical, radiological, biological, and security nature of each waste will be documented at the point of generation, before any dilution, mixing, or other alteration of the waste occurs. Such documentation will be valid and legally defensible.
- All waste will have a documented hazardous waste determination at the point of generation before any dilution, mixing, or other alteration of the waste occurs. All waste will be categorized and managed in a manner consistent with that determination.
- All waste will be safely and compliantly characterized, packaged, stored, treated, disposed, and transported as applicable.
- A comprehensive, timely, and accurate inventory of waste containers packaged for shipment will be maintained in the Laboratory's Waste Compliance and Tracking System (WCATS).
- Waste management processes and services will be continuously improved.

## 4.0 ROLES AND RESPONSIBILITIES

LANL organizations have various position titles and division of responsibilities based on the size of the organization and the complexity of the work being performed. For this document, process personnel are the individuals (including subcontractors) who perform waste generating work for a Waste Generating Organization. The Facility Operations Director (FOD) position title is used as the position with overall responsibility for facility operations. The FOD's organization becomes a Waste Generating Organization when facility work generates waste.

### 4.1 Process Personnel/Waste Generators

- Plan waste generation and management as described in SD400, *Environmental Management System,* and FSD-P409-0100, *Waste Planning.*
- Reduce risk and waste volume as described in EPC-ES-GUIDE-016, *Pollution Prevention is Source Reduction.*
- Identify and get approval for No Disposal Path waste prior to generating it.
- Perform waste generating work safely, securely, and compliantly.
- Collaborate with WMC and/or Acceptable Knowledge (AK) personnel to characterize waste comprehensively and to identify compatibility issues.
- Re-characterize waste when necessary and communicate new characterization information to the assigned WMC or NPI AK personnel.
- Collaborate with WMC or NPI AK personnel to complete and sign Waste Stream Profiles.
- Revalidate and extend ongoing Waste Stream Profiles annually.
- Resubmit Waste Stream Profiles for ongoing wastes as prompted by WCATS.
- Collaborate with WMC and NPI AK personnel to package, mark, and label waste per approved Waste Stream Profiles and WMC/NPI direction.
- Store waste containers per WMC direction as described in FSD-P409-0600, *Waste Accumulation and Storage.*

- Collaborate with assigned WMC or NPI AK personnel to maintain an accurate inventory of waste containers.
- Obtain authorization to perform generator waste treatment per FSD-P409-0800, *Waste Treatment Decision Making*.
- Notify WMC or AK personnel when waste volume approaches accumulation storage limits and needs to be packaged or sealed (e.g., waste in a Satellite Accumulation Area (SAA) or a radioactive waste staging [accumulation] area).
- Sign waste documentation and attest to its accuracy, including waste documentation for waste created by onsite subcontractors.
- Complete training as described in Section 6.0, *Training*.

### 4.2 Waste Generating Organizations

- In collaboration with the FOD, NPI, and/or WMC, plan and forecast waste generation and management as described in SD400, *Environmental Management System,* and FSD-P409-0100, *Waste Planning.*
- In collaboration with the WMC, NPI, and/or EPC-ES, reduce risk and waste volume as described in EPC-ES-GUIDE-016, *Pollution Prevention is Source Reduction.*
- Ensure chemicals, materials and wastes are transitioned to new process personnel whenever the original process owner is re-assigned or leaves the Laboratory.
- Hold personnel accountable for performing their waste management responsibilities appropriately.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the First Line Manager and the Responsible Division Leader/Designee in CCP-PO-012, *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.
- Prohibit personnel from performing generator waste treatment without first receiving approval from EPC-WMP as described in FSD-P409-0800, *Waste Treatment Decision Making.*
- Ensure waste generators are identified for each activity that produces waste.
- Ensure waste generators complete/maintain training as described in Section 6.0, *Training*.
- Ensure proper management of waste from work activities.

### 4.3 Facility Operations Directors (FODs)

- Act as and fulfill all responsibilities of waste generating organizations for facility maintenance, construction, renovation, and demolition projects.
- In collaboration with waste generating organizations and WMCs, ensure adequate floor space, personnel, funding, and resources for managing wastes.
- Hold organizations accountable for safely and compliantly managing waste in their facilities.
- Create, implement, and maintain Radioactive Waste Management Basis documents, if applicable.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the Facility Operations Director/Designee in CCP-PO-012, *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document.*
- Ensure that no waste is improperly disposed of or abandoned in their facilities.

- Confirm that facility-related corrective and preventive actions from internal and external assessments relating to their facilities are corrected in a timely manner and that future issues are prevented.
- Implement processes ensuring that waste management is addressed prior to authorizing work.
- Understand waste permits applicable to their assigned areas and implement processes that ensure compliance with those permit requirements.
- Issue local-level procedures for waste management activities that comply with this policy document and its implementing procedures.
- Route local level procedures for waste management activities through the ALDESHQ review and approval process.

### 4.4 ALDESHQ Directorate

- Ensure there are appropriate staffing and resourcing for Environment and Waste Programs to manage waste from LANL's mission activities.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the Environmental, Safety, and Health Support and the Institutional Quality & Performance Assurance (IQPA) Division Leader/Designee in CCP-PO-012, *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.

### 4.5 Environment and Waste Programs

- Maintain and implement P409 *LANL Waste Management,* P409-1 *LANL Waste Acceptance Criteria,* and related implementing documents.
- Establish waste management requirements, processes, and services.
- Coordinate with DOE to approve generation of No Path Forward wastes.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned in CCP-PO-012, *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.
- Confirm that corrective and preventive actions, arising from internal and external assessments relating to waste management, are implemented in a timely manner and that future issues are prevented.

### 4.6 Waste Management Division

- Plan waste generation and management as described in SD400, *Environmental Management System,* and FSD-P409-0100, *Waste Planning.*
- Support P2 and waste minimization as described in EPC-ES-GUIDE-016, *Pollution Prevention is Source Reduction.*
- Develop and maintain appropriate subcontracts for performing waste management activities.
- Provide support for difficult and no-disposal path waste streams.
- Maintain inventory of ready to use waste containers and equipment for the Laboratory.
- Responsible for all onsite and offsite LANL waste transportation other than TRU and MTRU.
- Serve as the final authority for approving the shipment and disposal of waste.
- Verify completion of the receiving facility documentation and notifications for LANL.

- Evaluate and approve offsite Treatment, Storage, and/or Disposal Facilities (TSDFs).
- Confirm that corrective and preventive actions arising from internal and external assessments are corrected in a timely manner and that future issues are prevented.
- Verify proper waste characterization and packaging before shipping waste onsite or offsite.
- Ensure waste personnel have appropriate support to adequately perform waste management activities.
- Provide trained, qualified, and equipped WMCs and Technicians to waste generating organizations to collaborate with generators and to implement waste management activities.
- Hold personnel accountable for safely and compliantly handling, packaging, transporting, and storing waste.
- Maintain and implement the WMC, WMT, and waste shipper qualification and training programs.
- Develop and maintain waste management training.

### 4.7 Waste Management Coordinators

- Assist waste generators and waste generating organizations in waste planning activities as described in FSD-P409-0100, *Waste Planning*.
- Assist waste generators and waste generating organizations in P2 activities as described in EPC-ES-GUIDE-016, *Pollution Prevention is Source Reduction*.
- Assist process personnel, including subcontractors, in safely and compliantly handling, packaging, and storing waste.
- Collaborate with process personnel (including subcontractors) to characterize waste and identify compatibility concerns.
- Review WCATS Waste Stream Profiles to verify generator signature and characterization.
- Safely and compliantly package waste.
- Actively manage and inspect registered waste storage areas in their assigned facilities as described in FSD-P409-0600*, Waste Accumulation and Storage*.
- Submit waste disposal requests per TP-P409-0700, *On-Site Waste Management Field Tasks*.
- Communicate with WM-WGS, WM-WMS and EPC-WMP if waste shipment dates are nearing regulatory deadlines for storage.
- Serve as the primary point of contact for facilities and/or FODs on waste management compliance issues, including inspections and assessments.
- Disseminate waste management information to generators in their facilities.

### 4.8 Environmental Protection and Compliance Division

- Plan waste generation and management as described in SD400, *Environmental Management System,* and FSD-P409-0100, *Waste Planning.*
- Administer the Laboratory's Pollution Prevention program.
- Provide trained, qualified, and equipped sample collection personnel.
- Initiate the review of waste characterization documentation when new information or discrepancies in waste characterization are discovered.

- Review CCP waste documentation and characterization, when requested.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the Environmental Protection & Compliance (EPC) Division Leader/Designee in CCP-PO-012, *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.
- Ensure that Nevada National Security Site (NNSS)-destined waste packagings are certified by a qualified Waste Package Certifier.
- Certifies waste for disposition at NNSS.
- Review and approve generator waste treatment requests.
- Maintain LANL facility operations certification and offsite receiving facility certification.
- Provide NNSS notification and reporting to regulatory oversight bodies.
- Implement waste compliance assurance activities, including monitoring work in progress and conducting compliance assessments (i.e., through independent assessment and waste verification).
- Coordinate information and compliance requests and activities with regulators.
- Provide regulatory information and institutional guidance on waste compliance requirements.
- Develop and maintain the waste verification program.
- Evaluate and concur with corrective actions regarding waste management. When this involves waste destined for NNSS, ensure that evaluation and concurrence is performed by the NNSS Waste Certification Official.
- Apply for and maintain Hazardous Waste Facility Permit.
- Complete and submit Permit related reports.
- Document compliance or noncompliance with characterization/certification requirements and reports to DOE Los Alamos Field Office and DOE-Environmental Management (EM) Los Alamos Field Office.
- Document waste certification status resulting from internal audits and respond to external audits and assessments.
- Provide notification and reporting to client and regulatory oversight bodies.
- Approve exceptions and/or variances to P409 and its implementing FSDs.
- Verify waste personnel (such as Alternate Waste Certification Official and Waste Packaging Certifiers) have appropriate training.
- Evaluate and document qualification to support waste management activities.
- Determine whether facilities and systems are adequate to maintain waste certification until shipment.
- Maintain WCATS.

### 4.9 Nevada National Security Site (NNSS) Waste Certifying Official

- Serve as the final authority for approving the shipment and disposal of waste to NNSS facilities.
- Verify completion of the receiving facility documentation and notifications for LANL waste sent to NNSS facilities.

- Concur with corrective and preventive actions related to waste destined for NNSS waste certification activities and document that concurrence.
- Verify proper waste characterization and packaging before shipping waste to NNSS.

### 4.10 NPI Division

- Determine whether TRU waste management facilities and systems are adequate to maintain waste certification until shipment and for continuous waste generation.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the First Line Managers and Responsible Division Leader/Designee in CCP-PO-012, *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.
- Responsible for all onsite and offsite LANL waste transportation of TRU and MTRU.
- Serve as the final authority for approving the shipment and disposal of TRU and MTRU.
- Certify TRU and MTRU waste shipments to WIPP.
- Perform TRU waste storage, packaging, and characterization at TA-55, RANT, the TRU Waste Facility, and CMR.

### 4.11 Nuclear Engineering and Nonproliferation Division

With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the Nuclear Engineering and Nonproliferation Division Leader/Designee in CCP-PO-012*, CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.

### 4.12 All Personnel

- Upon request, collaborate with waste generators and WMCs to reduce waste volume and risk.
- Upon request, assist waste generators and WMCs in characterizing waste.
- Upon request, collaborate with generators and WMCs to evaluate chemical compatibility concerns.
- Be aware of waste management requirements and notify WMCs of any concerns, including concerns about improper waste generation, characterization, handling, storage, or disposal.

## 5.0 DESCRIPTION

The Laboratory's waste management process is described in the following sections. Specific requirements are listed in implementing documents for each section.

### 5.1 Waste Planning

As stated in P300*, Integrated Work Management,* all work at LANL is planned work. While meeting Integrated Work Management (IWM) planning requirements, LANL organizations must plan work activities in enough detail to identify potential wastes, estimate waste volume, and prepare for appropriate packaging, storage, transport, treatment, and disposal activities associated with those wastes.

**Guiding Principle**
All waste generating organizations at LANL will make reasonable and intentional efforts to estimate future waste generation rates.

As described in FSD-P409-0100, *Waste Planning,* effective waste management planning ensures that:

- Pre-start requirements (such as regulatory notifications, permit modifications, and qualified personnel/subcontractors) are met before activities begin.
- There is adequate funding for waste planning, permitting, packaging, characterization, storage, treatment, transportation, and disposal.
- The waste meets the requirements of both P409-1, *LANL Waste Acceptance Criteria (WAC)*, and an appropriate off-site receiving facility's WAC.
- DOE review and approval is completed for any waste that does not have a disposal pathway.
- There is adequate floor space, equipment, and qualified waste management personnel available to accommodate expected waste volumes.
- Responsible personnel and organizations are identified, including the assigned WMC, NPI Acceptable Knowledge (AK) Specialist/Technologist (for TRU and MTRU), waste generator, and alternates.
- Waste management is effectively integrated into work and project schedules.
- Waste management requirements are effectively flowed down to subcontractors, as needed.

**Guiding Principle**
All waste generating organizations at LANL will dedicate adequate space and resources to effectively manage the expected waste.

Waste planning at the Laboratory involves the use of the Integrated Review Tool (IRT) (that includes the Permits and Requirements Identification (PRID) and Excavation Permit tools) and the planning process described in FSD-P409-0100, *Waste Planning*. The IRT provides generators and managers with information and requirements associated with the wastes they may generate as part of project execution. It also allows waste personnel to identify and communicate work area requirements that may affect the waste. FSD-P409-0100, *Waste Planning,* provides the steps for generating organizations to plan their activities and inform EWP personnel so that adequate space, containers, equipment, personnel, and permits are available to support the work without interruption or delay.

For specific, mandatory waste planning requirements and processes, see FSD-P409-0100, *Waste Planning,* and SD400, *Environmental Management System.*

### *5.1.1 Reduce Risk through Pollution Prevention and Waste Minimization*

**Guiding Principle**
All waste generating organizations at LANL will make reasonable and intentional efforts to reduce waste volume and risk.

As part of planning, organizations and personnel must investigate methods for reducing waste volume, toxicity, and risk. This is done by implementing Pollution Prevention (or P2) strategies, such as those listed below:




- Eliminate the waste stream entirely.
- Eliminate radioactive and/or chemical constituents from the waste stream via substitution.
- Reduce the amount of a waste stream that is generated.
- Reduce the concentration of radioactive and/or chemical constituents in the waste stream.
- Reuse the waste (or part of the waste) in an appropriate fashion.
- Recycle the waste.

Contact the EPC Environmental Stewardship (EPC-ES) Pollution Prevention program and see EPC-ES-GUIDE-016, *Pollution Prevention is Source Reduction,* for specific P2 processes.

### *5.1.2 Identify and Address Difficult Waste Streams*

Effective planning should identify difficult or complex waste streams as part of the IWM "Identify and Analyze Hazards" step. Certain wastes present unique challenges that make them difficult to handle, transport, treat, or dispose of offsite. These wastes must be safely stored onsite until appropriate actions are taken to accommodate final disposition. These difficult waste streams historically have included waste with the following concerns:

- High radioactivity or dose,
- Radioactive gas,
- Classified shapes or materials,
- Explosives contamination,
- Container integrity issues from waste content due to unknown causes, gas generation, bulging, heat, etc.,
- Requirement for permitted waste treatment prior to offsite shipment when that treatment is not currently included in the Laboratory's Hazardous Waste Facility Permit, and/or
- Presence of a condition or contaminant that is not easily remediated and that prevents the waste from meeting an offsite facility's WAC.

To mitigate these risks, LANL has developed a Difficult Waste Strategy that includes a process for early identification and evaluation of potential difficult waste streams. All new waste generating processes and any activities involving decommissioning of equipment or facilities shall be reviewed early in the planning phase through FSD-P409-0100, *Waste Planning* and the PRID process to identify potential difficult waste streams. When the potential for generation of a difficult waste is identified, EPC-WMP performs a technical and regulatory evaluation of the waste to determine if there are existing disposition options for the waste or if one must be developed. The difficult waste process (described in AP-P409-0101, *Difficult Waste Streams*) allows for consultation with other LANL entities, as well as off-site personnel if necessary.

Contact EPC and Waste Management (WM) Divisions and see AP-P409-0101, *Difficult Waste Streams,* for assistance.

### *5.1.3 Identify and Get Approval for Waste with No Disposal Path*

DOE M 435.1-1 Chg. 3, *Radioactive Waste Management Manual*, requires that waste planning include preliminary waste characterization prior to generation and requires DOE's pre-authorization if waste with no disposal path must be generated. Although DOE M 435.1-1 Chg. 3 only addresses radioactive waste, it is LANL policy that generating organizations must request and receive DOE written approval to generate any waste that does not have a disposal path BEFORE the waste is generated.

As described in FSD-P409-0100, *Waste Planning,* LANL waste generators must work with their WMCs and EPC-WMP to submit a request to generate waste with No Disposal Path to the EPC Division Office (EPC-DO), who will initiate a formal request to the DOE Los Alamos Field Office. The request to generate waste streams with no disposal path, at a minimum, must address:

- Programmatic need to generate the waste,
- Characteristics and issues preventing the disposal of the waste,

- Safe storage of the waste until disposal can be achieved, and
- Activities and plans for achieving final disposal of the waste.

DOE approval of the request to generate waste without a disposal path may come with action requirements for LANL, such as requirements to develop an action plan or to create a treatment and/or disposal path and may require concurrence and funding from the program sponsor.

See FSD-P409-0100, *Waste Planning,* and AP-P409-0101, *Difficult Waste Streams,* for more information.

## 5.2 Waste Generation

Waste is any material that is discarded or abandoned, meaning material that is thrown away, destroyed, released into the environment or not put to use. Material that is recycled for reuse is generally not considered to be waste. State and federal statutes and regulations define "waste" as "solid waste." Those same statutes and regulations define the term "solid waste" very broadly to include solids, semi-solids, liquids and contained gases. For Laboratory personnel, though, waste, or solid waste, means any garbage, refuse, sludge, waste-like material, or other abandoned or discarded solid, liquid, semisolid, contained gaseous material resulting from Laboratory activities. This means that any equipment or other material is thrown away, discarded, spent, spilled, released into a drain, or abandoned in storage is a waste. Obsolete chemicals in storage that are no longer usable and that cannot be recycled or reclaimed are also considered to be wastes. In addition, materials that can no longer be used for their intended purpose can be considered "spent" which also qualifies as a "waste."

**Guiding Principle**
All waste will have a documented hazardous waste determination at the point of generation before any dilution, mixing, or other alteration of the waste occurs. All waste will be categorized and managed in a manner consistent with that determination.

So, when does something become a waste? In the regulations, a material becomes a waste at the "point of generation." This concept is explored in Section 5.2.3 below.

Who decides that something is a waste? Process personnel typically decide that something is a waste. When that happens, the process personnel become *Waste Generators*. However, there are instances when the point of waste generation is reached without process personnel making a specific decision. In those instances, the waste is subject to this policy, even if the waste generator disagrees.

There also will be instances where waste generation is a collaboration between several personnel or organizations. This is discussed in Section 5.2.4 below.

### *5.2.1 Who is a Waste Generator at LANL?*

As a *Waste Generating Facility,* the Laboratory is responsible for everything that is or has ever been disposed of as a result of its activities. Outside regulators (such as the NMED, DOE, and the U.S. Environmental Protection Agency) focus on LANL as a single facility. In addition, the Laboratory is responsible for responding to any problems related to our waste (even after disposal) if those problems are directly related to errors made in how we implement our waste management program. The Laboratory's ownership and responsibility for waste extends to wastes generated by subcontractors performing work on our behalf.

Work is performed by individuals within various organizations at the Laboratory. When that work creates waste, then the organization becomes a *Waste Generating Organization* for purposes of this policy. Waste generating organizations are responsible for planning and conducting their work while also ensuring proper waste management. Personnel (including subcontractors) who perform waste generating work for an organization must be properly trained and qualified on both the work to be performed and the waste management aspects of the work. These individuals will be referred to as *Process Personnel* in this document.

Within the Laboratory, anyone who throws material away, destroys it, releases it into the environment, or decides that it is not going to be used is a waste generator. The individuals making these decisions are normally process personnel and/or front-line managers who are closest to the work activity. They are individuals who are actively engaged in or are actively overseeing waste generating work activities. Specific job titles for these individuals will vary between different organizations. However, they are typically process personnel such as supervisors, workers, project managers, construction managers, maintenance managers, team leaders, program leaders, researchers, chemical owners, and principal investigators. Process personnel who are waste generators must be assigned to and maintain the training curricula listed in Section 6.0 below.

For work that is being subcontracted, it is the responsibility of the requesting manager, Project Manager, and Subcontract Technical Representative to identify and assign the Waste Generator role to the appropriate LANL process personnel. Potential subcontractors must be informed of the anticipated waste associated with a project by including a completed Waste Characterization Strategy Form (WCSF) or waste certification statement in the requisition package. See FSD-P409-0301, *Waste Characterization Strategy Form Preparation,* for instructions on completing these documents.

**Note:**
Individual chemical owners are responsible for determining if their chemicals can and will be used. Any chemicals that cannot or will not be used must be managed as waste.

The subcontractors are responsible for following the requirements set forth in their contractual agreements (subcontracts), including the scope of work and all attachments, exhibits, and/or addenda. This applies to lower-tier subcontractors as well. LANL is the owner of any waste generated by a subcontractor.

### *5.2.2 What Does a LANL Waste Generator Have to do?*

Process personnel who generate waste have six specific responsibilities. They must:

- Plan their work and how they are going to manage the waste (see Section 5.1);
- Characterize their waste by providing accurate descriptions of the chemical, radiological, biological, security, and physical attributes of the waste and by providing a detailed and accurate description of the process that created the waste (see Section 5.3).
- Make a documented waste determination at the point of generation prior to diluting, mixing, or otherwise altering the waste (see Section 5.4);
- Follow WMC or NPI directions to properly package and label their waste (see Section 5.5);
- Follow WMC or NPI directions to properly store their waste (see Section 5.6); and
- Maintain their training (see Section 6.0).

LANL's EWP organization deploys trained WMCs or NPI AK personnel to every facility and/or generating organization to support process personnel and to direct waste management activities for each work activity. WMCs and NPI AK personnel are trained in the regulatory nuances of waste management and provide that service for their customers. NPI personnel also act as waste generators for TRU and MTRU wastes.

Any person who generates a waste must make a "waste determination" at the "point of generation." The waste determination must be made before any dilution, mixing, or other alteration of the waste occurs. Waste determinations are formally documented on Waste Stream Profiles (WSPs) in the Laboratory's Waste Compliance and Tracking System (WCATS) as described in Section 5.4 below. If waste is generated before a WSP is approved in WCATS, waste generators must still document their waste determination at the point of generation.

See FSD-P409-0200, *Waste Generation*, for specific requirements related to generating waste and fulfilling waste generator responsibilities.

### *5.2.3 What is the Point of Generation?*

As stated above, process personnel must make a waste determination at the point of generation before any dilution, mixing, or alteration of the waste occurs. So, what is the point of generation? In a nutshell, it is whenever anyone who throws material away, destroys it, releases it into the environment, or decides that it is not going to be used. Here are some examples of points of generation at LANL:

- Whenever something gets discharged to a wastewater treatment facility (such as LANL's Sanitary Wastewater System or the Radioactive Liquid Waste Treatment Facility);
- When the material becomes "spent" and can no longer be used for its intended purpose without reprocessing it;
- When a decision is made that a chemical or material cannot or will not be used for its intended purpose and will be discarded;
- When a treatment residue exits a treatment unit, including reject water from a water treatment unit;
- When a sludge is deposited in a container, tank, etc.;
- When a residue exits a unit that is otherwise exempt from waste regulations (such as a recycling unit or wastewater treatment unit);
- When a solid waste is mixed with a listed hazardous waste, regardless of whether it was intentional or not;
- When a material has been spilled and is not recoverable for use;
- When construction or demolition is created by room or building construction, renovation, or demolition;
- When spent batteries or light bulbs are removed from service;
- When a material is abandoned (including abandonment in storage);
- When personnel leave the Laboratory or change positions and their materials are no longer needed; or
- When a decision is made that a nuclear material cannot or will not be recovered for reuse and will be discarded.

Some sanitary wastewater (such as from bathrooms, portable toilets, and cafeterias) is exempt from this policy. However, industrial wastewater (such as cooling tower water, boiler blowdown, etc.,) that is released to LANL's Sanitary Wastewater System is subject to this policy. See P409-1, *LANL Waste Acceptance Criteria* for information).

See FSD-P409-0200, *Waste Generation,* for a more detailed discussion of points of generation.

### *5.2.4 Collaborative Waste Generation*

There are situations that involve more than one organization or individual in generating a waste. For example, process personnel may determine that a material with special nuclear material is spent and is no longer usable. However, the material does not become a waste until after another organization performs certain tests to determine if the special nuclear material can be recovered. In this instance, the process personnel and the personnel who review the additional data are co-waste generators and both groups are responsible for contributing to the waste characterization effort (Section 5.3).

Likewise, work may be subcontracted to an organization outside of LANL. This frequently occurs for construction, renovation, maintenance, or demolition projects. In these instances, subcontracted process personnel and LANL subcontract oversight personnel are co-waste generators and contribute to waste characterization (Section 5.3) and other waste management activities. In subcontracted work, however, LANL employees sign waste documentation as the owner and waste generator.

**Guiding Principle**
The physical, chemical, radiological, biological, and security nature of each waste will be documented at the point of generation before any dilution, mixing, or other alteration of the waste occurs. Such documentation will be valid and legally defensible.

## 5.3 Waste Characterization and Compatibility

In order to complete a waste determination, process personnel must first characterize the waste with WMC and/or NPI assistance. "Waste characterization" is the process of determining and documenting the chemical, physical, radiological, biological, and security attributes of the waste.

Process personnel must provide accurate, complete, and up-to-date information about their waste to their assigned WMC or NPI AK personnel and assist in entering that information into WCATS. Characterization information includes *Acceptable Knowledge* (list of materials used, products or by-products from an activity, analyses of similar wastes, Safety Data Sheet information, known or expected contaminants, etc.) and/or *Analytical Data* that accurately describes the waste.

Proper waste characterization is the most critical aspect of waste management. Waste cannot be safely handled, stored, treated, disposed of, or transported without a complete understanding of the physical, chemical, and radiological aspects of the material. Waste characterization determines:

- Safety and health hazards associated with the waste;
- Compliant packaging, labeling and transportation requirements;
- Compliant waste management (i.e., treatment, storage and disposal of the waste);
- Potential incompatible chemical reactions between materials, waste containers, and/or co-located wastes;

- Requirements for transporting, treating, and disposing of the waste; and
- The facilities that can accept the waste for storage, treatment, and/or disposal.

Waste characterization must be documented in order to be valid and must be maintained for review by auditors, and state and federal inspectors. As discussed below, LANL meets this requirement by keeping Waste Stream Profiles and associated documentation in WCATS.

Every worker at the Laboratory is responsible for knowing his/her WMC and communicating waste issues to his/her WMC. Moreover, every worker is responsible for providing chemical, radiological, physical, and security information to the WMC upon request. WMCs will document waste characteristics as described below and in various FSDs. Process personnel are responsible for verifying the accuracy of waste characterization information and for signing WCATS waste stream profiles as the LANL Waste Generator before the waste is generated.

For TRU and MTRU, workers are responsible for communicating waste issues and chemical, radiological, physical, and security information to their NPI AK personnel. The NPI AK personnel will document the waste characteristics. The Central Characterization Program (CCP) is responsible for providing radiological characterization information that is used to certify waste for disposal in WIPP. Process personnel are responsible for providing radiological characterization information used for Nuclear Material Control and Accountability, Criticality Safety, and compliance with Technical Safety Requirements.

All process personnel are responsible for understanding the Waste Stream Profiles that they are working under and for maintaining training per Section 6.0.

See the following Functional Series Documents for specific waste characterization requirements and processes:

- FSD-P409-0300, *Waste Characterization and Compatibility*;
- DOE/WIPP-02-3122, *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Project* (in the Electronic Documents and Records Management System [EDRMS]);
- PA-AP-01146, *Acceptable Knowledge Documentation Procedure* (in EDRMS);
- FSD-P409-0301, *Waste Characterization Strategy Form Preparation*;
- FSD-P409-0302, *Site Characterization for Construction, Renovation, and Demolition*; and
- AP-P409-0303, *Waste Sample and Analysis Plan Procedure*.

### *5.3.1 Re-Characterization*

Personnel should never assume that routinely generated wastes only have to be characterized once. Process personnel are expected to review and validate their waste characterization information at least annually to ensure that it is accurate and up-to-date. Further, State and Federal regulations require process personnel to re-characterize the waste whenever there is reason to believe that the process or operation generating the waste has changed or an off-site facility indicates that the waste received does not match the shipping manifests. Process personnel that re-characterize their waste must document these efforts to ensure that it is valid and can be reviewed by auditors, or state and federal inspectors.

At the Laboratory, process personnel must re-characterize their waste whenever:

- There is a change to the waste generating process;
- There is a change to material inputs or suppliers;

- The process owner changes;
- Process authorization documentation is revised;
- Material formulations are revised;
- When the waste stream profile reaches its usable limit;
- The waste has been treated to change a chemical, biological, physical, or radiological aspect;
- There is a significant change to waste management regulations or requirements;
- The waste is repackaged, and secondary materials are added to the container; and/or
- There is a process upset, spill or another abnormal event.

See FSD-P409-0300, Waste Characterization and Compatibility, for details.

### *5.3.2 Special Concerns for Transuranic Waste Characterization*

Some LANL operations generate radioactive waste that contains 100 nanocuries (3700 Becquerels) or more of alpha-emitting transuranic radioisotopes per gram of waste. These radioisotopes generally have half-lives greater than 20 years. Unless these wastes meet certain exceptions, they are categorized as Transuranic (TRU) waste. TRU wastes that also are hazardous wastes are called Mixed TRU (MTRU) wastes. TRU and MTRU wastes are disposed of in the Waste Isolation Pilot Project (WIPP) facility pursuant to WIPP's RCRA Permit. There are specific requirements that must be met before Laboratory personnel will be authorized to generate or manage TRU or MTRU waste. These requirements can be found in DOE/WIPP-02-3122, *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant,* PA-AP-01146, *Acceptable Knowledge Documentation Procedure,* and TA55-RD-539, *TA-55 FOD Waste Management Requirements*.

NPI-DO provides AK Specialists to work with process personnel to properly document Acceptable Knowledge associated with TRU and MTRU waste. AK specialists provide waste documentation to CCP, who characterizes and certifies transuranic (TRU) and mixed transuranic (MTRU) waste destined for the WIPP in accordance with the WIPP Waste Analysis Plan and the WIPP WAC. CCP is a Nuclear Waste Partnership, LLC, program contracted through the National TRU Program at the DOE Carlsbad Field Office. Program interfaces and roles, responsibilities, authorities, and accountability (R2A2) are described in CCP-PO-012, *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface* document.

CCP provides services related to characterization and certification of waste to the WIPP WAC that consist of acceptable knowledge compilation and reporting, data generation, project level validation and verification, records management, and document control. LANL TRU and MTRU waste generators must comply with P409 for all aspects of LANL cradle-to-grave management of waste leading up to its transfer to CCP for final certification and WIPP disposition. Moreover, LANL TRU and MTRU waste generating organizations are required to fulfill their responsibilities as outlined in the CCP-PO-012, *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface* Document.

### *5.3.3 Waste Verification*

LANL performs independent waste characterization and verification sampling and analysis on an annual basis for a random set of waste streams. This verification sampling meets Section 2.4.7, *Waste Characterization Review*, of the *LANL Hazardous Waste Facility Permit,* as well as verification requirements of DOE M 435.1-1 Chg. 3, *Radioactive Waste Management Manual.* In addition, CCP provides waste verification for TRU and MTRU waste destined for WIPP. See AP-P409-0307, *Waste Verification,* for more information.

## 5.4 Waste Determination and Categorization

Process personnel collaborate with their WMC or NPI AK personnel to develop a Waste Stream Profile (WSP) in WCATS that summarizes and documents the waste characterization information. It is recommended to complete a WSP before the waste is generated.

The Laboratory's waste management personnel will review each WSP and classify the waste into different waste categories, each of which has its own packaging, storage, treatment and/or disposal requirements. This process is called a "Hazardous Waste Determination" and is required by State and Federal statutes and regulations. These regulations also require that the hazardous waste determination be documented in order to be valid.

**Guiding Principle**
All waste will have a documented hazardous waste determination at the point of generation before any dilution, mixing, or other alteration of the waste occurs. All waste will be categorized and managed in a manner consistent with that determination.

Typical LANL waste categories include:

- Municipal Solid Waste;
- New Mexico Special Waste;
- Universal Waste;
- Hazardous Waste;
- Nonhazardous Waste;
- Low-level Radioactive Waste;
- Mixed Low-level Radioactive Waste (both hazardous and low-level radioactive);
- Transuranic Waste;
- Mixed Transuranic Waste (both hazardous and Transuranic);
- Sanitary Wastewater;
- Polychlorinated Biphenyl Waste;
- Classified Waste;
- Orphan/Legacy Waste;
- High Explosives Contaminated Wastewater;
- Low-level Radioactive Wastewater; and
- Transuranic Wastewater.

By law, waste characterization documentation must be maintained and be made available to state and federal officials upon request. At LANL, we meet this requirement by keeping Waste Stream Profiles and associated documentation in WCATS.

For unplanned waste that must be generated before a WSP is created, process personnel and WMCs (or NPI AK personnel for TRU or MTRU) are required to make a preliminary waste determination and categorization for any wastes that are generated before a waste stream profile is completed. Waste is to be managed according to the preliminary waste determination until the Waste Stream Profile is approved and activated, at which time the process owner and WMC (or NPI for TRU or MTRU) must immediately begin managing the waste per the determination and category identified on the profile (if it is different from the preliminary waste determination).

See FSD-P409-0400, *Waste Determination and Categorization*, for specific requirements and processes associated with this process.

## 5.5 Waste Packaging

**Guiding Principle**
All waste will be safely and compliantly packaged, stored and transported.

Except for wastewater piped directly to a treatment facility or National Pollutant Discharge Elimination System (NPDES)/NMED Groundwater permitted or authorized outfall, all waste must be packaged to meet the U. S. Department of Transportation requirements for shipping waste in commercial transit. Waste packagings frequently include containers such as drums or waste boxes, but may also include configurations that are not containers (such as palletized and plastic wrapped equipment). All waste containers or packages must be closed or covered except when adding, removing, or consolidating the waste. In addition, all waste containers and packages must be labeled (using weather-resistant labels) to communicate their contents and hazards. Once waste is placed into a DOT shippable container or package, that container/package should be entered into WCATS within three business days.

See the following documents for specific requirements relating to container procurement, container selection, and proper container closure, labeling, and marking:

- RD-P409-0202, *LLW/MLLW Procurement Requirements*; and
- AP-P409-0702, *Weighing and Final Closure of Waste Packages for Transportation*.

### *5.5.1 Certifying Waste Packaging*

Radioactive waste destined for NNSS requires independent certification of the waste package and its closure process before it can be shipped and accepted by a receiving facility. LANL has established a certification program to ensure that all NNSS-destined radioactive waste is properly packaged, and meets the NNSS WAC prior to shipment.

See EPC-WMP-QAP-200, *Los Alamos National Laboratory Waste Certification Quality Assurance Plan (QAP)*, for specific requirements.

### *5.5.2 Container Requirements*

Waste packages or containers must be in “good condition,” meaning not deteriorating defined as cracked, corroded, severely rusting or with apparent defects that could resulting in leaking or spilling (i.e., dents, holes or bulges). Waste stored in deteriorating containers must be transferred to a container in good condition.

Containers must also be clearly marked or labeled, meaning that markings are legible and conspicuous enough to be easily readable for audits or inspections by state or federal regulators. Once waste is placed into a DOT shippable container or package, that container/package should be entered into WCATS within three working days.

## 5.6 Waste Accumulation and Storage

The safe accumulation and storage of waste is essential to the Laboratory’s mission. After ensuring that a waste is safely packaged, it must be placed in a location that meets the following criteria:

- Is appropriate for the waste type per FSD-P409-0600, *Waste Accumulation and Storage*;
- Is registered with EPC-WMP (unless noted as exempt in FSD-P409-0600, *Waste Accumulation and Storage*);
- Has an appropriate sign posted describing the type of waste being stored;
- Is able to be inspected;
- Is under the control of process personnel and WMC (or NPI for TRU or MTRU);
- Will control any waste that spills or leaks; and
- Is protected from traffic or inadvertent damage.

Table 2 shows the types of waste storage areas used at LANL. See FSD-P409-0600*, Waste Accumulation and Storage,* for specific requirements pertaining to waste accumulation, storage, and staging areas.

### *5.6.1 Inspecting Waste in Accumulation and Storage Areas*

Waste in storage should be inspected routinely to verify that the containers are:

- Are in "good condition;"
- All required labels and markings are present and readable; and
- There are no leaks or spills (see Table 2).

Some waste storage areas are required to be inspected at certain frequencies by law. As a Best Management Practice, the Laboratory recommends waste generators, WMCs, or NPI personnel to inspect all waste storage areas at least monthly. See FSD-P409-0600, *Waste Accumulation and Storage,* for specific inspection requirements.

**Table 2. LANL Waste Storage Area Descriptions**

| Waste Area Type | Description | Inspection Frequency |
|---|---|---|
| **Satellite Accumulation Area (SAA)** | An accumulation area for hazardous or mixed waste, under the control of the generator, and located to serve an active process that generates waste. Volumes may not exceed 55 gallons or, for acutely hazardous wastes, 1 quart of liquid or 1 kilogram (2.2 pounds) of solid. | **Monthly*** |
| **Central Accumulation Area (CAA)** | An accumulation area where hazardous or mixed waste may be stored for up to 90 days without a permit. | **Weekly** |
| **Universal Waste Area (UWA)** | An accumulation area specific to universal wastes, which include certain types of batteries, pesticides, thermostats, lamps, mercury-containing equipment and aerosol cans. Waste must be removed within 1 year. | **Monthly*** |
| **New Mexico Special Waste Storage Area** | A storage area for solid wastes with unique handling, transportation, or disposal requirements to ensure the protection of the environment and the health, welfare, and safety of the public. This includes asbestos waste, sludge, petroleum-contaminated soil, and treated formerly characteristic waste. Waste must be removed within 90 days. | **Monthly*** |
| **Polychlorinated Biphenyl (PCB) Storage Area** | A location established for the storage of items contaminated with PCBs. If the area is designated as Temporary, then waste must be removed within 30 days. Otherwise, waste must be removed within 90 days. | **Monthly** |

| Table 2. LANL Waste Storage Area Descriptions | | |
|---|---|---|
| **Radioactive Waste Staging Area** | A location established for staging low-level or TRU radioactive waste. Waste can be added to containers in a staging area. Waste must be removed within 90 days once the container is full, closed, and sealed. Waste must be moved to a registered Radioactive Waste Storage Area or transported to a DOE authorized offsite disposal facility. | **Daily** Monthly** |
| **Radioactive Waste Storage Area** | A location established for storing low-level or TRU radioactive waste. Each waste container is certified as being closed and ready for offsite shipment. Waste cannot be added to containers in a storage area. Waste must be removed within 1 year. | **Monthly** |
| **Used Oil Area (UOA)** | An area established for storage of used oil intended for recycling. | **Monthly*** |
| **Permitted Waste Storage Areas** | An area for the storage of hazardous or mixed waste that is included in LANL's Hazardous Waste Facility Permit. Storage of waste in these units must meet the requirements of LANL's Hazardous Waste Facility Permit. Waste must be removed within 1 year. | **Daily** Weekly** |
| **Solid Waste Storage Areas** | An area for the storage of construction and demolition (C&D) waste. Waste must be removed within 1 year. | **Monthly*** |
| *This is a Best Management Practice assessment not a regulation required inspection.<br>**Daily inspections are required when adding, removing, treating, or moving waste. | | |

### *5.6.2 Important Dates*

**Guiding Principle**
A comprehensive and accurate inventory of waste containers packaged for shipment will be maintained real-time in the Laboratory's Waste Compliance and Tracking System (WCATS).

Storing waste for an excessive amount of time frequently leads to container degradation, spills/leaks, and lost waste characterization information. To prevent these and other negative outcomes, regulatory agencies have placed time limits on waste storage. LANL meets these requirements by ensuring that shippable waste containers and packages are entered into WCATS within three working days of starting to place waste into the containers/packages. This allows Laboratory personnel to correctly track time limits and ensure compliant transport, treatment, and disposal of the waste in question. Table 3 lists these dates, along with their implications.

| Table 3. Dates Related to LANL Waste Management | | | |
|---|---|---|---|
| **Date** | **Description** | **Implications** | **Critical Actions** |
| **Origin Date** | Date the waste container or item is created in WCATS. | Container is officially in the WCATS inventory. | If created prior to waste generation, WMC must track containers to ensure waste is added. |
| **Accumulation Start Date (ASD)** | Regulatory date associated with waste placed in CAA, permitted Treatment, Storage, and/or Disposal Facility (TSDF), or UWAs. | CAA, TSDF, UWA time limits are related to the ASD.<br>If wastes with different ASDs are consolidated into one container, the earliest ASD applies to the new container. | Move waste from CAA to a TSDF within 90 days of ASD.<br>Move waste from UWA within 1 year of ASD.<br>Move waste from TSDF within 1 year of ASD.<br>Request NMED approval to exceed 1 year in TSDF if necessary. |

| Table 3. Dates Related to LANL Waste Management | | | |
|---|---|---|---|
| | | A new ASD is required when a container is moved from a CAA to a TSDF. The date the waste container is accepted by the TSDF is the new ASD. | If mixed low-level (MLLW) or MTRU, add container to Site Treatment Plan if container will exceed 1 year in TSDF. |
| **Closed Date (CD)** | Regulatory date associated with waste placed in NM Special or radioactive waste storage areas.<br>For NM Special waste, the date the waste container is deemed full and placed into storage.<br>For radioactive waste, the date the waste container is full, closed, and a tamper indication device is attached. | Radioactive waste area and NM Special waste area time limits are associated to the CD. | Move waste from NM Special Waste Area within 90 days of CD.<br>Move waste from Rad Staging Area within 90 days of CD.<br>Move waste from Rad Storage Area within 1 year of CD. |
| **Out of Service Date (OSD)** | Regulatory date associated with waste is placed in PCB waste storage areas. | PCB waste area time limits are associated to the OSD. | Move waste from Temporary PCB Waste Area within 30 days of OSD.<br>Move waste from General PCB Waste Area within 90 days of OSD. |

### *5.6.3 Inventorying Waste Containers*

The Laboratory's Hazardous Waste Facility Permit requires that waste descriptions, storage descriptions, and storage dates be maintained in the Facility Operating Record. Other regulations require similar information be kept for other waste types. In addition, many wastes are subject to specific time limits for storage. The Laboratory cannot demonstrate compliance with these requirements unless it maintains an accurate, real-time waste inventory of all the waste containers onsite.

See FSD-P409-0600, *Waste Accumulation and Storage,* for specific requirements and processes for maintaining an accurate inventory at each type of registered waste storage area. Waste shipping and treatment activities also affect inventories at various locations. Requirements and processes for those activities are in TP-P409-0700, *On-Site Waste Management Field Tasks,* TP-P409-0701*, Preparing and Shipping Waste/Material Off-Site,* and FSD-P409-0800, *Waste Treatment Decision Making.*

### *5.6.4 Permitted Storage of Hazardous Waste*

Some LANL facilities that store hazardous waste, mixed low-level waste (MLLW), and MTRU are included in and subject to the requirements of the Laboratory's Hazardous Waste Facility Permit. This permit has specific requirements for container storage, including for aisle spacing, permitted unit boundary designations, timely maintenance, training, and inspections. All work in these

permitted facilities (including maintenance, facility renovation, process changes, and new buildings) must be reviewed to ensure that it complies with Permit requirements. Some work or changes may require Permit modifications to be submitted to and approved by the New Mexico Environment Department before the work can be performed or the change implemented. All managers and workers in permitted units must be aware of, comply with, and enforce Permit requirements.

See the LANL Hazardous Waste Facility Permit to identify affected facilities and to see specific waste storage requirements. Note that the requirements identified in this policy document P409, and its implementing procedures continue to apply in addition to those found in the Permit.

### *5.6.5 Radioactive Waste Management Basis*

Per DOE O 435.1 Chg 2, *Radioactive Waste Management*, LANL is required to provide documentation that controls have been developed, are in place, and are properly implemented for the management of radioactive waste so as to provide near-and-long-term protection of the public, workers, and the environment. This is accomplished through the Laboratory's Radioactive Waste Management Basis (RWMB) program. The RWMB program applies to mixed waste (MTRU and MLLW) in addition to waste that is only radioactive (TRU and LLW).

All facilities that generate, manage and store radioactive wastes must have an approved RWMB. Facilities are required to identify their operations and the radioactive waste they will generate (historical, current and future waste generation), report changes in their facility or waste status (i.e., adding storage areas, increasing waste volumes, etc.,) and request a storage extension if it is foreseen that low level radioactive waste cannot be shipped for final disposition within 1 year of the closed date for the waste container. To meet this requirement and to document RWMB requests, Facility Operations Directors, Responsible Line Managers, or their designees complete Form 2107, Radioactive Waste Management Basis Report Form, for review and approval by DOE. The Environmental Protection and Compliance Division is responsible for ensuring compliance of the RWMB program.

See FSD-P409-0601, Radioactive Waste Management Basis Submittal Process, for specific requirements.

### *5.6.6 Site Treatment Plan*

Some MLLW and MTRU cannot be moved to a final disposal within one year of being placed into permitted waste storage. This may be due to a number of issues, such as needing a specialized container before being able to transport the waste offsite, having constituents in the waste that are prohibited from transport, inability to treat the waste to meet appropriate Land Disposal Restrictions, or delays in processing the waste to meet disposal facility acceptance criteria. The Federal Facilities Compliance Act requires federal facilities to develop a plan for the removal of mixed waste that must be stored longer than one-year. The Laboratory implements this requirement through a Federal Facility Compliance Order and the LANL Site Treatment Plan (STP). The STP summarizes the status of the stored mixed waste inventory (MTRU and MLLW), describes the progress being made to dispose of the STP inventory, identifies treatment and disposal options for addressing the STP inventory, and provides overall schedules for management and disposition of the mixed waste.

WMCs, NPI, and LANL TSF personnel are required to track their mixed waste inventory and ensure that containers that cannot be shipped offsite within one year have appropriate justifications for why the containers require extended storage. Specific actions to be taken to facilitate off-site treatment and disposal of STP containers and waste streams are addressed

through the Laboratory's Difficult Waste Strategy. When necessary, individual containers are automatically added to the STP via WCATS.

All waste treatment MUST be pre-approved by EPC-WMP before it is authorized to start.

### *5.6.7 Authorized Users*

At LANL, when an owner of a registered waste accumulation or storage area grants permission to other process personnel to use his or her registered waste area, the personnel who have been granted access are called *Authorized Users.* The waste area owner and the authorized users have joint responsibility for compliant use of the waste area.

## 5.7 Waste Transportation

All waste shipped between locations in the Laboratory or offsite from the Laboratory, whether by subcontract or internal personnel, must be documented on a Waste Disposition Request (WDR) or Transuranic Waste Storage Record (TWSR), with the sole exceptions being:

- Municipal waste dumpsters and end dumps routinely picked up by LANL and taken to the Los Alamos County Eco Station; and
- Liquid wastes with approved Waste Stream Profiles that are piped to an onsite liquid waste treatment facility.

For waste other than TRU or MTRU, once waste has been adequately characterized, packaged, and labeled, the WMC will submit a WDR in WCATS to request waste transport to either an onsite or offsite facility. For TRU and MTRU waste, TRU waste shipping personnel will submit a TWSR in WCATS to request waste transport to either an onsite TSF or to WIPP. All waste transported onsite or offsite must meet U.S. Department of Transportation requirements for the material being transported or have an appropriate exemption. Completing the WDR or TWSR ensures that waste containers are tracked in WCATS from initial storage through ultimate disposal. WM-WMS and NPI maintain an inventory of ready-to-use containers, vehicles, personnel, and other resources necessary to provide rapid container deployment to waste generators and efficient removal of filled waste containers.

See the following documents for waste handling and shipping requirements and processes:

- TP-P409-0700, *On-site Waste Management Field Tasks*
- TP-P409-0701, *Preparing and Shipping Waste/Material Off-Site*
- AP-P409-0702, *Weighing and Final Closure of Waste Packages for Transportation*
- AP-P409-0704, *Process for Review of Radionuclide Values for LANL Waste Prior to Shipment*

## 5.8 Waste Treatment Prior to Disposal

Hazardous waste and MLLW must be treated to meet applicable Land Disposal Restrictions before they can be disposed of in a hazardous waste landfill. Treatment, when applied to hazardous waste or the hazardous components of mixed waste, is any method, technique, or process that is designed to change the physical, chemical, or biological character or composition of the waste so as to:

- Neutralize it;
- Recover energy from it;
- Recover valuable metals or materials from it;
- Render it nonhazardous or less hazardous;
- Make it safer to transport, store, or dispose of;
- Reduce its volume; or
- Make it more amenable for recovery, storage, or disposal.

All waste treatment MUST be pre-approved by EPC-WMP before it is authorized to start.

At LANL, all waste treatment must be pre-approved by EPC-WMP personnel and treatment facility personnel must review characterization data to verify that waste meets the appropriate acceptance criteria before treatment is authorized. Some hazardous waste treatment must be approved by NMED, and included in the Laboratory's Hazardous Waste Facility Permit. EPC-WMP review and approval will identify which treatment activities require NMED approval and which do not.

Table 4 shows some of the hazardous waste treatments that are allowable at LANL. Note that dilution of a hazardous waste as a substitute for adequate treatment is illegal and never allowed at LANL. See FSD-P409-0800, *Waste Treatment Decision Making,* to request authorization to perform waste treatment.

**Table 4. Examples of Allowable Hazardous Waste Treatment at LANL**

| Activity | Requirements | Locations |
|---|---|---|
| Elementary Neutralization | Only applicable to corrosive wastes (D002).<br>Requires PRID and EPC-WMP authorization. | Only in a tank, container, or transport vehicle. |
| Absorption | Adding absorbent to a hazardous waste,<br>Absorbent must be compatible with the waste and container.<br>Requires PRID and EPC-WMP authorization.<br>Biodegradable absorbents are prohibited.<br>***Note:*** Adding absorbents constitutes treatment and requires a permit. However, this practice can be exempt and undertaken without a permit only if the absorbent material is added to the container of waste at the point of generation and at the same time the waste is first placed into a container. Adding absorbent while re-containerizing the waste is treatment. | Only in containers.<br>When absorption requires a permit, it may only be performed in locations described in LANL's Hazardous Waste Facility Permit. |
| Stabilization in Tanks | Requires a PRID.<br>Must comply with LANL's Hazardous Waste Facility Permit.<br>Process changes require a Permit modification. | In locations as described in LANL's Hazardous Waste Facility Permit. |
| Burning or Detonation | Must comply with LANL's Hazardous Waste Facility Permit or interim status requirements.<br>Process changes require a Permit modification.<br>Is not eligible for generator waste treatment in a CAA. | In locations listed in LANL's Hazardous Waste Facility Permit. |
| Stabilization in Containers | Must comply with LANL's Hazardous Waste Facility Permit.<br>Process changes require a Permit modification. | In locations listed in LANL's Hazardous Waste Facility Permit. |

### *5.8.1 Permitted Hazardous Waste Treatment*

Some LANL facilities that treat hazardous waste, MLLW, and MTRU are included in and subject to the Laboratory's Hazardous Waste Facility Permit. This permit has specific requirements for waste treatment, including recordkeeping, treatment process, and verification sampling. All treatment processes in these permitted facilities must be reviewed to ensure that they comply with Permit requirements. Changes to treatment processes and materials require permit modifications to be submitted to and approved by the New Mexico Environment Department before the change is implemented.

All managers and workers in areas subject to the LANL Hazardous Waste Facility Permit must be aware of, comply with, and enforce Permit requirements. See the LANL Hazardous Waste Facility Permit to identify affected facilities and to see specific waste-treatment permit requirements. The requirements identified in this document and its implementing procedures continue to apply in addition to those found in the Permit.

### *5.8.2 Other Waste Treatment*

Although treatment of hazardous waste, MLLW, or MTRU are included in and subject to the Laboratory's Hazardous Waste Facility Permit, treatment of nonhazardous or non-mixed waste may be allowable at the Laboratory. For example, size reduction for radioactive wastes or uncontaminated construction debris can be performed if the work is authorized and performed safely. As an additional example, wastewater treatments at the TA-50 Radioactive Liquid Waste Treatment Facility, TA-03 Sanitary Effluent Recycling Facility and the TA-46 Sanitary Wastewater plant are subject to the NPDES and NMED regulations and permit/authorization requirements for wastewater.

Follow the directions shown in FSD-P409-0800, *Waste Treatment Decision Making*, to request authorization to perform nonhazardous waste treatment and to verify that the treatment process is not subject to the Laboratory's Hazardous Waste Facility Permit.

## 5.9 Waste Disposal

LANL is not permitted or allowed to dispose of waste onsite and almost all of LANL's waste eventually ends up in an offsite landfill. By sending certified and compliant waste to offsite TSDFs for permanent isolation and disposal, the Laboratory minimizes risk of the release and spread of contamination and exposure to workers, the public, and the environment. Disposal facilities are designed and permitted to isolate waste to prevent chemical and/or radioactive contamination from harming the public or the environment. Each disposal facility is only authorized to accept a limited range of waste that meets specific physical, chemical, radiological and security requirements. These requirements are referred to as Waste Acceptance Criteria (WAC).

Wastes that do not meet any facility's WAC must stay at LANL and can be expensive to manage. All the activities described in this document and its implementing procedures are designed to ensure that work is effectively planned and executed so that the resulting wastes meet an offsite facility's WAC and can be shipped for treatment or disposal.

See RD-P409-0900, *LANL Subcontractor Waste Disposal Requirements*, for more detailed requirements.

### *5.9.1 Radioactive Waste Disposition*

TRU and MTRU waste must be sent to WIPP for disposal. For Low-Level and Mixed Low-Level radioactive waste, DOE Order 435.1 Chg. 2, *Radioactive Waste Management* requires the waste to be disposed of at NNSS. For LLW/MLLW not destined to be disposed of at NNSS, waste

generators must submit an exemption request per FSD-P409-0905, *DOE O 435.1 Exemption Request* or verify an approved exemption is in place.

See the following documents for specific requirements related to radioactive waste disposal:

- FSD-P409-0201, *Radioactive Waste Management*
- RD-P409-0202, *LANL NNSS Waste Certification Program LLW/MLLW Procurement Requirements*
- FSD-P409-0901, *Authorized Release Limits Proposal Process*
- FSD-P409-0905, *DOE O 435.1 Exemption Request*
- TA55-RD-539, *TA-55 FOD Waste Management Requirements*.

### *5.9.2 Land Application of Environmental Media*

Environmental media (such as soil, groundwater, drill cuttings, sediment, etc.) is not technically a waste, but environmental media that has substantial contamination becomes a waste during cleanup activities. When the environmental media is below established cleanup standards and risk levels, the media is often left on-site or re-applied at an approved location as long as doing so also meets other applicable regulatory requirements (such as NM Waste Quality Control Commission requirements and standards). The processes for characterizing and evaluating environmental media for land application on LANL property are described in the following procedures:

- FSD-P409-0902, *Land Application of Drill Cuttings*;
- EPC-CP-QP-1005*, Land Application of Groundwater*; and
- FSD-P409-0904, *On-site Reuse of Environmental Media from Excavation, Construction, and Demolition Activities as Administratively Controlled Fill*.

Each of these procedures requires an Excavation Permit, which allows a broader environmental review of regulatory requirements.

## 5.10 Waste Documentation

LANL is committed to maintaining an accurate and complete operating record of its waste management activities. We do this by uploading waste characterization, location information and other documentation into WCATS. Other records are maintained in EDRMS, the Environmental Information Management System (EIM), and in electronic and physical public reading rooms.

Table 5 lists common documents that are included in the operating record. Many of the documents or data items are required by external stakeholders (e.g., EPA, NMED, Department of Transportation, DOE) while others are established as LANL Policy.

See AP-P409-1000, *Facility Operating Record Requirements for Waste Documentation,* for a complete list of waste management documents, retrieval locations, and requirements for maintenance.

**Table 5. Waste Documentation Examples**

| Document | Description |
|---|---|
| **Waste Stream Profile** | ▪ Summarizes waste characterization information.<br>▪ Documents hazardous waste determination and assigned waste category. |

| Table 5. Waste Documentation Examples | |
|---|---|
| **Waste Disposal Request** | ▪ Requests waste shipment. |
| **TRU Waste AK Document** | ▪ Summarizes waste characterization information for TRU and MTRU wastes. |
| **TRU Waste Shipping Record** | ▪ Requests TRU waste shipment. |
| **Analytical Data** | ▪ Chemical and radiological analysis reports from on- or off-site analytical laboratories. |
| **Characterization Documents** | ▪ Procedures, project plans, lab notebooks, experiment design documents, technical papers, building histories, Waste Characterization Strategy Forms, AK Reviews, NNSS Waste Certification packages, etc. |
| **Shipping Papers** | ▪ Manifests, Bills of Lading, and LA Eco Station Day Passes |
| **Inspection Records** | ▪ Completed records associated with required inspections of waste storage areas. |
| **Noncompliance Reports and Corrective Actions** | ▪ Records associated with inspections, assessments, and similar evaluations that indicate noncompliance with requirements or opportunities for improvement. |
| **Permit Documentation** | ▪ Biennial reports, Demolition Notifications, Waste Minimization Reports, etc. |
| **Training Records** | ▪ Training materials and records of completed personnel training. |
| **Pollution Prevention/Waste Minimization Analysis Reports** | ▪ Reports of P2 investigations. |
| **Recycling Reports** | ▪ Summarizes volumes, types, and destinations of materials being recycled. |
| **Site Treatment Plan** | ▪ Listing of MTRU and MLLW containers that exceed regulatory storage limit dates.<br>▪ Includes justification of why container is on the STP. |
| **DOE O 435.1 Exemption Request** | ▪ Documents rationale for and DOE approval to ship LLW to a commercial LLW disposal facility. |
| **Waste Analysis Plans and Sampling & Analysis Plans** | ▪ Describe various sampling and analysis activities. |
| **WCATS TRU Waste Questionnaire** | ▪ Summarizes AK for TRU waste to ensure compliance with WIPP WAC. |

### 5.11 Waste from Emergency Response Implementation

Waste from emergencies, spills, leaks, or other abnormal events is still subject to LANL's waste management program. Local staff, the Los Alamos Fire Department, and/or LANL emergency response personnel will be called-out and will respond to emergency or abnormal events such as:

- Release, spill, or discharge of a hazardous or radioactive substance;
- Identification of an unknown or unstable material that may pose an imminent threat; or
- Uncontrolled fire, explosion, or detonation.

In such cases, Laboratory personnel will invoke a formal process that includes evaluation of the situation, addressing immediate hazards, and putting the situation into a safe configuration. The response may include implementing the LANL RCRA Permit Contingency Plan, notifying authorities, requesting an emergency waste treatment permit from NMED, and/or reporting the event to authorities.

If you find an abandoned material or waste that has no apparent owner:

- Treat the situation as a potential emergency.
- Do not move or touch the waste or the container.
- Isolate the area.
- Immediately report emergencies and non-emergency incidents as soon as it is safe to do so, following the procedures within P1201-4, *Los Alamos National Laboratory Incident Reporting and Protective Actions*.

Once the emergency or abnormal event is over, the Incident Response Commander will return the responsibility of the waste over to the WMC(s) assigned to the facility where the event occurred.

## 6.0 TRAINING

Except for office waste, personnel who generate waste at the Laboratory must be trained and qualified. This ensures that the Laboratory meets its regulatory and contractual requirements. Worker's whose training expires, are prohibited from generating waste, treating waste, or working in a waste management accumulation, staging, or storage area until their training is completed. Performance of waste related activities without proper training is a regulatory compliance violation.

Managers are responsible for assigning their personnel to the training curricula identified in Table 6, below.

***Note:*** Site-specific training may be required, and directed by responsible line managers.

**Table 6. Training Requirements**

| Role | UTrain Curricula* |
|---|---|
| **Waste Generators** | ▪ Curriculum 2810, Waste Generator Training<br>▪ Curriculum 10392, WCATS Generator Role Training |
| **CAA Workers or Owners**** | ▪ Curriculum 293, Central Accumulation Area Worker Training |
| **TSF Workers or Owners**** | ▪ Curriculum 256, RCRA Hazardous/Mixed Waste Worker Training<br>▪ Curriculum 4027, *HAZWOPER TSDF Worker* |
| **Authorized Users** | ▪ Curriculum 13865, Authorized User |

* Each curriculum includes refresher training as required.
**This RCRA-related training must be completed within 6 months of employment or a new assignment. During this period, workers must work under the supervision of a trained worker.

## 7.0 IMPLEMENTATION

The requirements in this document are effective on the effective date.

### 7.1 Exceptions or Variances

This document implements State and Federal legal requirements and compliance with those requirements is mandatory. Organizations may request temporary exceptions or variances from the requirements of this policy and/or associated implementing procedures from the Issuing Authority (ALDESHQ) by proposing temporary actions that meet applicable regulatory requirements. Concurrence by EPC-WMP subject matter experts and the applicable Waste Certifying Official is mandatory before any exception or variance is granted.

See AP-P409-7000, *Requesting and Approving Variances or Exceptions to P409 Related Implementing Documents*, for additional information.

### 7.2 Documents, Records, and Internal Deliverables

The Policy Office is the Laboratory Office of Record for this Institutional Document and maintains the administrative record.

EPC Division is the Laboratory Office of Record for waste management records. The formal facility operating record for the Laboratory's Hazardous Waste Facility Permit is maintained in WCATS, EDRMS, the EIM, and in the electronic and physical public reading rooms.

## 8.0 REFERENCES

Prime Contract:

- 10 CFR, *Energy*
- 40 CFR, *Environmental Protection*
- 40 CFR Part 122, *EPA Administered Permit Programs: The National Pollutant Discharge Elimination System*
- 40 CFR Part 279, *Standards for the Management of Used Oil*
- 40 CFR Parts 260 to 273, *Hazardous Waste Management System*
- 40 CFR Parts 700 to 799, *Toxic Substances Control Act regulations*
- 48 CFR, *Integration of Environment, Safety, and Health into Work Planning and Execution*
- 49 CFR, *Transportation*
- DEAR 970.5223-1, *Integration of Environment, Safety, and Health into Work Planning and Execution*
- DOE M 435.1-1 Chg. 3, *Radioactive Waste Management Manual*
- DOE O 414.1D, Adm. Chg. 2, *Quality Assurance*
- DOE O 435.1 Chg. 2, *Radioactive Waste Management*
- DOE O 436.1A, *Departmental Sustainability*
- DOE O 458.1 Chg. 4, *Radiation Protection of the Public and the Environment*
- DOE O 460.2B, *Departmental Materials Transportation and Packaging Management*
- DOE O 474.2A, *Nuclear Material Control and Accountability*
- LANL Hazardous Waste Facility Permit
- LANL Institutional RCRA Permit, EPA and NMED RCRA Operating Permit
- NA SD 430.1, *Real Property Asset Management*

### 8.1 Implementing Documents

The following documents implement this Institutional Document.

- AP-P409-0101, *Difficult Waste Streams*
- AP-P409-0303, *Waste Sample and Analysis Plan Procedure*
- AP-P409-0304, *Listed Source Review Procedure for Managing Environmental Media*

- AP-P409-0306, *Identifying and Assessing Newly Created or Discovered Potential Release Sites*
- AP-P409-0307, *Waste Verification*
- AP-P409-0702, *Weighing and Final Closure of Waste Packages for Transportation*
- AP-P409-0704, *Process for Review of Radionuclide Values for LANL Waste Prior to Shipment*
- AP-P409-1000, *Facility Operating Record Requirements for Waste Documentation*
- AP-P409-7000, *Requesting and Approving Exceptions or Variances to P409 Related Implementing Documents*
- EPC-CP-QP-010, *Land Application of Groundwater*
- EPC-WMP-QAP-200, *Los Alamos National Laboratory Waste Certification Quality Assurance Plan (QAP)*
- FSD-P409-0100, *Waste Planning*
- FSD-P409-0102, *Work Conducted Within or Near a Consent Order Site*
- FSD-P409-0200, *Waste Generation*
- FSD-P409-0201, *Radioactive Waste Management*
- FSD-P409-0300, *Waste Characterization and Compatibility*
- FSD-P409-0301, *Waste Characterization Strategy Form Preparation*
- FSD-P409-0302, *Site Characterization for Construction, Renovation, and Demolition*
- FSD-P409-0400, *Waste Determination and Categorization*
- FSD-P409-0600, *Waste Accumulation and Storage*
- FSD-P409-0601, *Radioactive Waste Management Basis Submittal Process*
- FSD-P409-0800, *Waste Treatment Decision Making*
- FSD-P409-0901, *Authorized Release Limits Proposal Process*
- FSD-P409-0902, *Land Application of Drill Cuttings*
- FSD-P409-0904, *On-site Reuse of Environmental Media from Excavation, Construction, and Demolition Activities as Administratively-Controlled Fill*
- FSD-P409-0905, *DOE Order 435.1 Exemption Request*
- PA-AP-01146, *Acceptable Knowledge Documentation Procedure*
- PA-AP-01216, *Acceptable Knowledge Technologist Procedure*
- PA-DOP-01456, *Packing TRU Waste into Approved Containers*
- PA-DOP-01665, *Characterization and Absorption of Liquids*
- PD-P409-0001, *Waste Management Compliance Assurance Program*
- RD-P409-0202, *LANL NNSS Waste Certification Program LW/MLLW Procurement Requirements*
- RD-P409-0900, *LANL Subcontractor Waste Disposal Requirements*
- TA55-RD-539, *TA-55 FOD Waste Management Requirements*
- TP-P409-0700, *On-Site Waste Management Field Tasks*

- TP-P409-0701, *Preparing and Shipping Waste/Material Off-Site*

### 8.2 Guidance Documents

- IG-P409-0002, *Waste Management Glossary*
- IG-P409-0211, *Management of Office Waste*
- IG-P409-0212, *Non-Empty Gas Cylinders or Cryogenic Dewars Management*
- IG-P409-0213, *High Explosives Waste and Wastewater Management*
- IG-P409-0214, *Hazardous Solvent Contaminated Wipes/Rags*
- IG-P409-0215, *Construction and Demolition Debris Management*
- IG-P409-0216, *Polychlorinated Biphenyl (PCB) Waste Management*
- IG-P409-0217, *Nonhazardous Waste Management*
- IG-P409-0218, *Management of Radioactive Sealed Sources as Waste*
- IG-P409-0219, *Unbound Engineered Nanoparticle (UNP) Waste Management*
- IG-P409-0220, *Antifreeze for Recycle*
- IG-P409-0221, *Alkaline and Carbon Zinc Batteries*
- IG-P409-0222, *Lead Acid/Gel Cell Batteries Managed by Salvage as Recyclable Material*
- IG-P409-0223, *Circuit Boards for Recycle*
- IG-P409-0224, *Excavated Material Management*
- IG-P409-0225, *Paint Waste Management*
- IG-P409-0226, *Refrigerant-Containing Equipment Management*
- IG-P409-0227, *Scrap Metal for Recycle*
- IG-P409-0228, *Management of Waste Sharps*
- IG-P409-0229, *Empty Containers*
- IG-P409-0230, *Management of New Mexico Special Waste*
- IG-P409-0231, *Roofing Waste Management*
- IG-P409-0232, *Beryllium Waste Management*
- IG-P409-0233, *Management of Universal Waste*
- IG-P409-0234, *Management of Used Oil for Recycle*
- IG-P409-0235, *Hazardous Waste Determinations for Waste Generators*

### 8.3 Other References

- CCP-PO-012, CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document
- DOE/WIPP-02-3122, *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Project*
- Energy Facility Contractors Group, Termination of Safeguards Controls Best Business Practices
- EPC-ES-GUIDE-016, *Pollution Prevention is Source Reduction*

- EPC-WMP-QP-250, *Waste Management Program Assessments*
- 20 NMAC Chapter 4, *Hazardous Waste*
- 20 NMAC Chapter 6, *Water Quality*
- 20 NMAC Chapter 9, *Solid Waste*
- P300, *Integrated Work Management*
- P315, *Conduct of Operations Manual*
- P322-3, *Performance Improvement from Abnormal Events*
- P322-4, *Issues Management*
- P328-5, *Assessments*
- P409-1, *LANL Waste Acceptance Criteria*
- P781-1, *Conduct of Training*
- P850, *Subcontract Technical Representative Procedure*
- P1201-4, *Los Alamos National Laboratory Incident Reporting and Protective Actions*
- PD1020, *Document Control and Records Management*
- PD1020-2, *Laboratory Document Control*
- Registered Waste Areas database
- SBP-112-3, *Unreviewed Safety Question (USQ) Process*
- SD400, *Environmental Management System*
- WCATS, *Waste Compliance and Tracking System*

### 8.4 Acronyms

See LANL Acronym Master List.

### 8.5 Definitions

See LANL Definition of Terms.

### 8.6 Forms

Form 2107, *Radioactive Waste Management Basis Report Form*
Other forms related to this document are identified in their respective implementing procedures.

## 9.0 HISTORY

***Note:*** History entries prior to 11/01/2018, the start date of Triad management, have been removed from this policy. For earlier history entries, send a request to policy@lanl.gov.

| **Revision History** | | |
|---|---|---|
| 11/01/18 | P409, Rev. 7<br>Admin. Change 3 | Updated organizational names throughout document. Updated Sections 11.0, References, and 14.0, Contact. |
| 04/11/19 | P409, Rev. 7<br>Admin. Change 4 | Updated hyperlinks and cross-references regarding P409 Waste Management Tools. |

| **Revision History** | | |
|---|---|---|
| | | Section 3.2.2: Deleted first paragraph, which referenced ADESH-AP-TOOL-306, a discontinued P409 Waste Management Tool.<br>Section 11.0: Deleted discontinued P409 Waste Management Tools. |
| 02/18/20 | P409, Rev. 7<br>Admin. Chg. 5 | Section 11.0: Fixed hyperlinks to P409 Tools. |
| 04/30/21 | P409, Rev. 8 | Published as PROVISIONAL until 04/30/2021.<br>Revision 8 entailed an extensive review and revision with all sections modified. The effort was implemented to create a single Waste Operations Program and to address critical issues related to NMCA, nuclear safety, criticality safety, waste, and classification enhancements. The revision served to clarify cradle-to-grave process and point to implementing procedures that have been generated as part of this effort. This document established new policies to clarify the waste generator role and collaborative waste generation. |
| 10/01/21 | P409, Rev. 8<br>Admin. Chg. 1 | Section 3.3: Corrected procedure number, FSD-P409-0303, *Waste Sample and Analysis Plan Procedure* to AP-P409-0303, *Waste Sample and Analysis Plan Procedure.*<br>Section 3.10: Corrected procedure number, FSD-P409-1000*, Facility Operating Record Requirements for Waste Documentation* to AP-P409-1000, *Facility Operating Record Requirements for Waste Documentation.*<br>Section 7.0: Corrected procedure number, FSD-P490-7000, Requesting and Approving Variances or Exceptions to P409 Related Implementing Documents, should have been AP-P409-7000, *Requesting and Approving Exceptions or Variances to P409 Related Implementing Documents*.<br>Corrected title of FSD-P409-0800 referenced throughout document.<br>Updated hyperlinks. |
| 11/30/21 | P409, Rev. 8<br>Admin. Chg. 2 | Moved many of the prime contract requirements from Section 11.2 to<br>Section 11.0.<br>Throughout document-updated Contact Section, references, hyperlinks. |
| 01/07/22 | P409, Rev. 8<br>Admin. Chg. 3 | Updated DOE M 435.1-1 to Chg 3.<br>Updated DOE O 435.1 to Chg 2. |
| 08/22/22 | P409, Rev. 8<br>Admin. Chg. 4 | Updated Section 3.7: Added references to AP-P409-0702, *Weighing and Final Closure of Waste Packages for Transportation* and AP-P409-0704, *Process for* |

| **Revision History** | | |
|---|---|---|
| | | *Review of Radionuclide Values for LANL Waste Prior to Shipment*<br>Updated Section 11: Added references to AP-P409-0702, *Weighing and Final Closure of Waste Packages for Transportation* and AP-P409-0704, *Process for Review of Radionuclide Values for LANL Waste Prior to Shipment*<br>Updated hyperlinks. |
| 11/28/22 | P409, Rev. 8<br>Admin. Chg. 5 | Section 3.11: Updated to align with P1201-4, *Los Alamos National Laboratory Incident Reporting and Protective Actions*.<br>Updated ALDESHQSS to ALDESHQ throughout document.<br>Section 10.0: Removed history entries prior to 11/01/18. |
| 08/16/23 | P409, Rev. 8<br>Admin. Chg. 6 | Section 1.0-5.0: Removed hyperlinks<br>Section 11: Updated references. |
| 08/31/23 | P409, Rev. 8<br>Admin. Chg. 7 | Section 1.2, 2nd Paragraph, remove the words, ", which is part of EWP," to clarify the sentence for reader. |
| 10/19/23 | P409, Rev. 8<br>Admin. Chg. 8 | Section 11.0: Changed DOE Order 436.1, *Departmental Sustainability,* to DOE Order 436.1A, *Departmental Sustainability.* |
| 10/03/24 | P409, Rev. 9 | Transferred text to new template.<br>Corrected typographical errors.<br>Section 4.9: Changed title to NNSS Waste Certifying Official. Removed "or commercial LLW or MLLW facilities" from three bullets and removed the bullet that states "evaluate and approve commercial LLW or MLLW TSDFs."<br>Section 5.4: Changed "It is the Laboratory's policy to complete a WSP before the waste is generated" to "It is recommended to complete a WSP before the waste is generated."<br>Section 5.6.1: First Sentence, changed "waste in storage must be inspected," to "waste in storage should be inspected."<br>Section 5.6.1: Changed "the Laboratory requires waste generators" to "the Laboratory recommends waste generators."<br>Section 6.0: Added Curriculum 4027, *HAZWOPER TSDF Worker* to the TSF Workers or Owners row. |