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NATIONAL LABORATORY

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MSGP Stormwater Pollution Prevention Plan

TA-60 Asphalt Batch Plant

Triad National Security, LLC

Los Alamos National Laboratory

January 2025

Revision 1

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TA-60 Asphalt Batch Plant

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 D-Asphalt Paving and Roofing Material and Lubricant* 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 the Asphalt Batch Plant 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 the TA-60 Asphalt Batch Plant. The current MSGP expires at midnight on February 28, 2026.

1.0 FACILITY DESCRIPTION

1.1 Facility Information

Name of Facility: TA-60 Asphalt Batch Plant		
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 Code 2951, Sector D, Subsector D1		
Estimated area of industrial activity at site exposed to stormwater: 2.3 acres		
Discharge Information		
Name(s) of surface water(s)/segment that receives stormwater from your facility: 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: Adjusted Gross Alpha, Dissolved Copper, and PCB (Aroclors).		
Pollutants causing the impairment (see above) that may be present in industrial stormwater discharges from this Facility: Dissolved Copper.		

Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2021 MSGP Table 1-1)? ☒Yes ☐No

If yes, which guidelines apply? Total Suspended Solids (TSS), Oil and Grease and pH.

1.2 Stormwater Pollution Prevention Team (PPT)

The TA-60 Asphalt Batch Plant is operated by Logistics Division, Heavy Equipment Roads & Grounds (LOG-HERG). LOG-HERG has established a PPT whose members are responsible for assisting the Division in developing and revising this SWPPP as well as taking a proactive approach to maintaining stormwater control measures and ensuring corrective action is taken when required. All PPT members will have access to either a hard copy or electronic version of this SWPPP.

The specific duties of individual team members of the PPT are listed in the table below.

Staff Names	Individual Responsibilities
Deployed Environmental Professional (DEP): Leonard Sandoval, EPC-CP	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: Larry Velasquez, Operations Manager, LOG-HERG	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.
EPC Core: Jacob L. Knight, MSGP Program Lead, EPC-CP	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.
Superintendent: Anthony Maes, Operating Engineer, LOG-SUP	Responsible for day-to-day operations at the facility. Assists the DEP and EPC with inspections; spill reporting; implementing, installing, and maintaining storm water control measures (SCMs); 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

The Asphalt Batch Plant was newly constructed at the same location as the old Asphalt Batch Plant (disassembled and removed during the Fall of 2021) and became operational in June 2023. This plant is manufactured by Asphalt Drum Mixers (ADM) and is an ADM EX-120, Model Number EX7636-Flow. The ADM asphalt plant is rated at 120 tons per hour; however, the maximum asphalt production capacity is estimated at 80 tph due to altitude de-rating. The plant can produce “SuperPave” hot mix asphalt in compliance with New Mexico Department of Transportation specifications for highway and bridge construction, as well as warm mix asphalt. The plant is located at the eastern edge of Sigma Mesa on the south side of Enewetak Road. It includes a control center, storage/loadout silo, drag slat conveyor, 5 cold feed bins, recycled asphalt pavement (RAP) bin, 35,000-gallon asphalt emulsion oil tank, and hot asphalt heating system with a 500-gallon expansion tank. The primary function of the facility is to produce asphalt for the Laboratory using a counter flow drum mix process.

The following bullets are an overview of the new plant’s operational process.

- Aggregate material, used as feed stock for asphalt production, is stockpiled on the east side of the plant. There are four material storage areas separated by concrete jersey barriers on an asphalt pad. The volume of stockpiled aggregate material on site at any given time is approximately 6,000 cubic yards.
- Front-end loaders transfer the aggregate material from material storage areas to a hopper/feeder unit. The material is then mechanically fed to the asphalt processing plant. Asphalt emulsion oil and heated aggregate are mechanically dried then mixed via the drying

drum. Processed asphalt is then transferred to the storage/load out silo where it is loaded onto trucks and delivered to project sites.

- The plant has the capability to use up to 20% RAP. The introduction of RAP into the asphalt mix reduces the amount of virgin aggregate and asphalt cement required to produce asphalt. Warm asphalt mix uses water, water-bearing minerals, chemicals, waxes, and organic additives in its asphalt mixture. Air emissions are controlled by a Pulse Jet Bag House.

Stormwater discharges from a detention pond, located at the southern portion of the facility, through a Parshall flume to the outfall where an automated sampler collects samples for monitoring and visual assessment. There is only one outfall (043) associated with this facility, which is located on the SE corner of the plant.

1.4 General Location Map

The general location map for the facility can be found in Figure A. Figures B-1 and B-2 contain the site maps and identify all receiving waters associated with stormwater discharges from the facility. Approximately 90 percent of the site flows to Montandad Canyon (ephemeral) and about 10 percent flows to Sandia Canyon (perennial). Both canyons eventually flow to the Rio Grande approximately 11 miles southeast of the site.

1.5 Site Map

The site map is provided as Figure B-1 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 described in this SWPPP.

- **Site boundaries and acreage.** The site covers approximately 2.3 acres.
- **Significant structures and impervious surfaces.** The site is 18 percent impervious, primarily structures and paved lots.
- **Direction of stormwater flow and site drainage.** Stormwater primarily flows south and east to the detention pond. Some stormwater flows to the north and east to a sediment basin associated with TA-60 Roads and Grounds east. There are flow arrows on the site map.
- **Locations of stormwater control measures (SCMs).** All SCMs are identified in Figure B-1.
- **Locations of all receiving waters.** The detention pond contains most stormwater runoff from the site until it evaporates or infiltrates; however, if the pond discharges, it would flow to Mortandad Canyon which is an impaired receiving water with no Total Maximum Daily Load (TMDL). A small amount of stormwater may discharge to Sandia Canyon, which is also an impaired receiving water with no TMDL. A map of nearby receiving waters is provided as Figure B-2.
- **Locations of all stormwater conveyances.** A corrugated metal pipe transports stormwater collected along the base course berm on the east side of the site and drains into the detention pond.
- **Locations of potential pollutant sources.** Material storage areas, cold feed bins, conveyer belt, loading silo, RAP loading bin, tanks and the fueling area are all sources of potential pollutants. The locations of these potential pollutant sources are identified on the site map (Figure B-1).

- **Locations of significant spills or leaks.** N/A
- **Locations of all stormwater monitoring points.** The automated sampler is located next to the Parshall flume on the SE corner of the site.
- **Locations of stormwater inlets and outfalls.** Only one outfall (043) is associated with this site and it is located on the SE corner of the site.
- This facility is not associated with a municipal separate storm sewer system (MS4).
- **Areas of designated critical habitat for endangered or threatened species.** The entire site is within developed core for Mexican Spotted Owl habitat. A map for threatened and endangered species within LANL property is included as Figure B-3.
- Locations where activities are exposed to precipitation are provided below:
    - The NW corner of the site is designated as a fueling area.
    - Loading and unloading occurs at the material storage area, cold feed and RAP loading bins and under the loading silo.
    - A dumpster is located at the NE corner of the site.
    - The site has two liquid storage tanks (a 35,000-gallon asphalt emulsion oil tank and a 500-gallon heating coil oil tank).
    - Production of asphalt occurs centrally on the site within the Asphalt Batch Plant (ADM EX-120, Model Number EX7636-Flow).
    - There is a bag house associated with the asphalt production process.
    - Large trucks haul asphalt from the plant on Enewetak Road to other locations within LANL.
    - Front-end loaders move materials to feed hoppers or the material storage areas.

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.

2.1 Potential Pollutants Associated with Industrial Activity

Heavy equipment such as front-end loaders and trucks have the potential to spill aggregate or RAP. In addition, spills of leaks may occur during fueling or associated with a hydraulic hose leak. Aggregate or RAP may also spill from feeder bins or the conveyer belt. Spillage of these types of materials are cleaned up and re-fed into the process. Loading of product asphalt occurs at the loading silo where processed asphalt is dropped into trucks for delivery to other locations at LANL. Potential sources of pollutants from this operation include overflow or spillage of processed asphalt, including aggregate, tar slag, and asphalt chunks. Spillage of these types of materials are cleaned up and re-fed into the process. Dust from aggregate loading and plant operation may contribute to TSS load on the site. Sediment loss due to drainage from the site will largely be captured in the detention pond.

The site has two liquid storage tanks (a 35,000-gallon asphalt emulsion oil tank and a 500-gallon heating coil oil tank). The two tanks are co-located in a concrete spill containment basin that provides secondary containment along with an earthen berm on the west, south and east ends of the site. Spills and leaks could occur from the tanks and associated piping. Potential pollutants include asphalt emulsion oil and heating coil oil.

There is one dumpster located on the NW corner of the site, used to manage trash.

Solid Waste Management Unit (SWMU) 60-002 consists of three former storage areas. Only one of these areas is within the Asphalt Batch Plant site. The eastern storage area is on the south side of the unimproved portion of Enewetak Drive about 300 ft west of SWMU 60-007(a) near the east end of Sigma Mesa. This area was used to stage piles of broken cured asphalt removed from roadways and parking lots around the Laboratory for recycling. The eastern storage area location is currently the site of the Laboratory's asphalt batch plant. The piles of cured asphalt were removed from the SWMU 60-002 eastern storage area to accommodate the old asphalt batch plant (structures 60-234, 60-235, 60-236, 60-237, and 60-280). Before the construction and start-up of the old asphalt batch plant, 13 samples were collected from 6 boreholes. All samples were submitted for analyses of TAL metals, VOCs, SVOCs, and TPH-DRO. Data from the 2003/2004 investigation are decision-level and included in the investigation results summary below. Decision-level data collected for SWMU 60-002 (East) consist of results from 13 samples collected from six locations in 2003 and 2004. The 2015 investigation report concluded that the nature and extent of contamination have been defined and no further sampling for extent is warranted. This site does not pose a potential unacceptable risk under the industrial, construction worker, and residential scenarios and poses no unacceptable ecological risk. SWMU 60-002 is included in the September 2015 Supplemental Investigation Report for Upper Sandia Aggregate Area, Revision 1 submitted to New Mexico Environment Department (NMED) under the Consent Order. The Site meets residential and ecological risk levels and is recommended for corrective action complete without controls in that report. A request for a certificate of completion was submitted to NMED on March 14, 2022.

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.

Areas where spills and leaks could occur at the Asphalt Batch Plant are provided in the table below.

Specific Equipment/Industrial Activity Areas and Location	Outfall(s) Affected
New Asphalt Batch Plant operations	043
Spills and leaks from heavy equipment operations	043

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 are entered as conditions requiring corrective action in the MSGP CAR database and are 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 a concrete secondary containment built underneath and around the 35,000 gallon oil tank. A manual shut off valve at the oil tank is kept closed during extended periods when operations are shut down. During normal operations a fail-safe automatic shut off valve at the oil tank will be activated in case of an emergency leak. A base course berm that was laser leveled and built to grade that runs from east to west also serves as the secondary containment for the 35,000 gallon oil tank.

Unauthorized Non-Stormwater Discharges

There are no NPDES permitted non-stormwater discharges or unpermitted outfalls associated with the facility. Potential sources of authorized non-stormwater discharges at the facility include the testing of fire hydrants in the area. The “Non-Stormwater Discharge Assessment and Certification” is located in Attachment 3. This form certifies that all stormwater outfalls have been evaluated for the presence of non-stormwater discharges. The form is updated whenever a change in possible non-stormwater discharge is determined, a new permit is issued, or the operator of LANL changes**.**

2.3 Salt Storage

No salt storage or piles that contain salt are present at the facility.

2.5 Historical Data Summary

Permitted Facility: TA-60 Asphalt Batch Plant

Calendar Year 2024

No discharge occurred at outfall 043 during CY2024, therefore no data are available.

Effluent limitation guidelines parameters must be monitored annually and may not be discontinued.

Monitored Outfall	Discontinue Monitoring		Continue Monitoring										
			Benchmark Monitoring Status				Effluent Limitation Guidelines (ELG) Monitoring Status						
	Average of four monitoring values did not exceed benchmark; quarterly monitoring discontinued for the duration of the permit.	Impaired water constituent was not detected in storm water discharge; annual monitoring discontinued for the duration of the permit.	Baseline	AIM Level 1	AIM Level 2	AIM Level 3	ELG constituent was not detected.	ELG parameter was detected, but did not exceed daily min or max limit.	ELG parameter exceeded daily max limit.	ELG parameter was detected, but did not exceed 30-day average limit.	ELG parameter exceeded 30-day average limit.	Indicator parameter monitoring required semi-annually for the first and fourth year of the permit.	Impaired water constituent was detected. Continue monitoring annually.
043	—	—	—	—	—	—	—	—	—	—	—	—	—

AIM = Additional Implementation Measures
ELG = Effluent Limitation Guidelines

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.

3.1 Non-Numeric Technology-Based Effluent Limits

3.1.1 Minimize Exposure

Standard operating procedures and maintenance procedures at the facility are designed to stabilize exposed areas and contain runoff using structural and/or nonstructural control measures to minimize on-site erosion, sedimentation, and the resulting discharge of pollutants. Examples of exposure-minimizing control measures include the use of potable water on the aggregate piles for dust suppression and the use of misters/sprayers with potable water along the exchange points during asphalt batch operations to minimize/eliminate fugitive emissions of fine dust.

3.1.2 Good Housekeeping

Routine operations at the facility are geared toward keeping the site clean, avoiding spills, and immediately attending to any spilled material according to LANL response guidelines.
Good housekeeping practices specifically applicable to the prevention of stormwater contamination include the following measures:

- Routine inspections are performed for leaks and to check the condition of the tanks.
- Operational areas are maintained in a clean and orderly state.
- Containers holding raw material or product are kept closed when not in use and containers are not stored in areas that are exposed to precipitation or run-on.
- Containers and materials are properly labeled.
- Stormwater containment structures and berms are kept clean of debris and trash.
- Access to the facility is controlled by a gate located less than a quarter of a mile west of the plant on Enewetak Road. The gate is locked when the plant is unattended. Visitors are required to notify the Plant Operator (upon arrival) that they are on-site and identify the work to be performed.
- Spills or leaks are cleaned as soon as possible.
- Activities that damage or destroy existing vegetation are kept to a minimum.
- Non-hazardous waste (e.g., trash) generated at the site is collected in a dumpster, which is picked up for disposal when it becomes full.
- No vehicle maintenance or vehicle washing is performed on site.
- Employees are trained about these and other good housekeeping practices and their impact on stormwater discharge.

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. 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.

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."

The sediment detention pond at outfall 043 is cleaned out every March or when the depth of sediment or debris reaches two-thirds (2/3) of the depth of the pond and when debris is at least six inches from the top. According to the manufacturing specifications the functional longevity for the Enviro-Soxx with Metal-Loxx wattles is 6 months to a year. At monitored outfalls 031, 032, 084, and 042 and at substantially identical discharge points 033, 034, and 035 the Metal-Loxx wattles are replaced every 3 months. At monitored outfall 043 the Core Log at the concrete flume is replaced annually or as needed.

Industrial equipment is maintained to avoid leaks or other releases and includes a manual shut off valve at the 35,000 gallon oil tank that is kept closed during extended periods when operations are shut down. During normal operations a fail-safe automatic shut off valve at the oil tank will be activated in case of an emergency leak. A base course berm that was laser leveled and built to grade also runs from east to west and serves as the secondary containment for the oil tank.

3.1.4 Spill Prevention and Response

Spills, leaks, or other releases will be prevented and minimized by the application of good housekeeping procedures and regular visual inspections minimize the probability of a spill or release.

LANL institutional procedures P409 *LANL Waste Management* and P101-14 *Chemical Management* require labeling of wastes, used oils, and chemicals stored on-site to facilitate the proper handling and response if spills or leaks occur. In general, the approach to spill cleanup is to secure the spill area and contact the Operations and Maintenance Coordinator (OMC) and/or the Emergency Management Response (EM-RESP) Team (if necessary). For incidental releases, Micro-Blaze or dry absorbents are used and contaminated absorbents from spill clean-up are disposed of properly.

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-Emergency Management Response (EM-RESP) 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, 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 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). 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-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*, Unplanned Releases,* can be found in Attachment 22 of this SWPPP.

3.1.5 Erosion and Sediment Control

A list of specific stormwater control measures that help with erosion and sedimentation at the Asphalt Batch Plant are provided below.

Stormwater detention pond: A stormwater detention pond at the southeast corner of the site collects and manages stormwater runoff from the plant and allows sediment to settle out in the pond rather than be transported off-site. A majority of runoff from across the facility is directed toward the pond, and the water is held in the pond until it is released through the controlled outlet structure, evaporates, or infiltrates into the surrounding soil. To help increase the holding capacity and detention time of stormwater, the depth of the pond was increased by 2 ft.

A Parshall Flume is located at the east side of the detention pond, which is part of stormwater monitored Outfall 043 and serves as the pond's outlet structure. This structure is used for sampling runoff and controlling runoff releases from the pond to provide better erosion control at the discharge. Riprap located at the flume discharge further slows down and disperses stormwater discharge from the pond. A Coir Log is placed across the flume to help filter stormwater for suspended solids.

Riprap: Riprap has been placed at the east and west entrances of the stormwater detention pond to help reduce erosion in these areas and minimize sediment transport into the pond.

Site grading: The facility grounds have been graded to produce a gentle downward grade toward the south-southeast so that site drainage and stormwater flow is directed toward the stormwater detention pond. Most of the facility is stabilized with gravel.

Berms: The site is bounded by base-course and earthen berms on the west, south, and east boundaries. The berms serve to redirect stormwater flow and site drainage toward the detention pond, minimizing

sediment transport and runoff. The berms also prevent run-on to the site from adjacent lots not part of the facility.

Riprap: Angular rock is used as riprap at the west end of the detention pond.

Angular Rock Berm: This berm is Installed across the middle of the detention pond to help with sediment retention. Angular rock has also been placed along the northwest end of the detention pond to slow any concentrated sheet flow from the site draining to the south (into the pond).

Culvert: The culvert Installed from the earthen berm along the east boundary at a SW direction to help direct stormwater runoff into the detention pond.

3.1.6 Management of Runoff

The site has a gentle downward slope toward the south-southeast that directs stormwater discharge to the detention pond at the southeast corner of the facility. Due to the configuration of the new Asphalt Batch Plant, some runoff also drains to the NE and may reach the sediment basin that discharges to monitored outfall 042 associated with the TA-60 Roads and Grounds facility.

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

The plant is covered by gravel or asphalt. Care is taken to replenish the gravel layer when it gets thin from heavy equipment traffic. Dust suppression with potable water is performed as needed.

3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines (ELGs)

Numeric Effluent Limitations Based on ELGs for the Asphalt Batch Plant are identified in Part 8.D.5 of the 2021 MSGP. Specific effluent limitations apply to discharges associated with industrial activity independent of commingling with any other waste streams. These ELGs are total suspended solids (TSS), pH, and oil and grease. Permit limits are identified as daily maximums and/or a 30-day average for TSS and oil and grease and as a range for pH. ELG permit limits are identified in Section 4.7.

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.

Certain stream reaches within Mortandad Canyon have been identified as impaired waters by the NMED Surface Water Quality Bureau (SWQB). According to the *2022-2024 State of NM Clean Water Act 303b/305b Integrated Report* and Integrated List of Assessed Surface Waters, pollutants causing the impairment for Mortandad Canyon are listed as: Adjusted Gross Alpha, Dissolved Copper, and PCBs (Aroclors).

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.

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. All relevant referenced procedures are provided in Attachments 21 and 22 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 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.

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;
- 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 *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 Quarterly Benchmark, Impaired Waters and ELG 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 MSGP04301 as identified in Section 1.5. Discharge from the facility is SE to Mortandad Canyon (impaired waters), which is a tributary of the Rio Grande located approximately 10 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 or benchmark constituent value exceeds the New Mexico Water Quality criterion or ELG value is exceeded, 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;
- Continue benchmark or annual monitoring of the constituent (as required by Part 4.2.5 of the 2021 MSGP); and
- 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.

Required Monitoring for Calendar Year 2025

Monitored Outfall	Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte	Filtered/ Unfiltered	Regulatory Standard	Units	Regulatory Standard Type	Regulatory Standard Reference
043	Quarterly Benchmark	D	—	TSS	UF	100	mg/L	Benchmark Limit	Part 8.D.4
	Impaired Waters	—	NM-9000.A_042	Adjusted Gross Alpha	UF	N/A	pCi/L	Report Only	Part 4.2.5.1
	Impaired Waters	—	NM-9000.A_042	Cu	F	N/A	µg/L	Report Only	Part 4.2.5.1
	Impaired Waters	—	NM-9000.A_042	Total Aroclors	UF	N/A	µg/L	Report Only	Part 4.2.5.1
	Indicator Parameter	D	—	PAHs	UF	N/A	µg/L	Report Only	Part 4.2.1.1
	Effluent Limitations Guidelines	D	—	TSS	UF	23	mg/L	ELG Daily Maximum	Part 8.D.5
	Effluent Limitations Guidelines	D	—	TSS	UF	15	mg/L	ELG 30-Day Average	Part 8.D.5
	Effluent Limitations Guidelines	D	—	Oil and Grease	UF	15	mg/L	ELG Daily Maximum	Part 8.D.5
	Effluent Limitations Guidelines	D	—	Oil and Grease	UF	10	mg/L	ELG 30-Day Average	Part 8.D.5
	Effluent Limitations Guidelines	D	—	pH	UF	6-9	SU	ELG Minimum/Maximum	Part 8.D.5

F = 0.45 µm filter
UF = Unfiltered
Cu = Copper
TSS = Total Suspended Solids
pH = Potential Hydrogen (Acidity or Alkalinity)
PAHs = Polycyclic Aromatic Hydrocarbons
N/A = Not applicable
mg/L = Milligrams per Liter
µg/L = Micrograms per Liter
pCi/L = Picocuries per Liter
SU = Standard Units
NM = New Mexico and ELG = Effluent Limitations Guidelines

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).

- 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 SCMs) 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.

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.

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, detention 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

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 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

ADM	Asphalt Drum Mixers
AIM	Additional Implementation Measures
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
EM-RESP	Emergency Management-Emergency Management 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
PAH	Polyaromatic Hydrocarbons
PPT	Pollution Prevention Team
RAP	Recycled Asphalt Pavement
SCM	Stormwater Control Measures
SIDP	Substantially Identical Discharge Point
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
URL	Uniform Resource Locator

8.0 SWPPP CERTIFICATION

STORMWATER POLLUTION PREVENTION PLAN
TA-60 Asphalt Batch Plant
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 D. E. Trujillo Date 1-14-25
David E. Trujillo
Operations Manager 3
Traffic and Open Space Operations, UI-TOS

FIGURE A: GENERAL LOCATION MAP

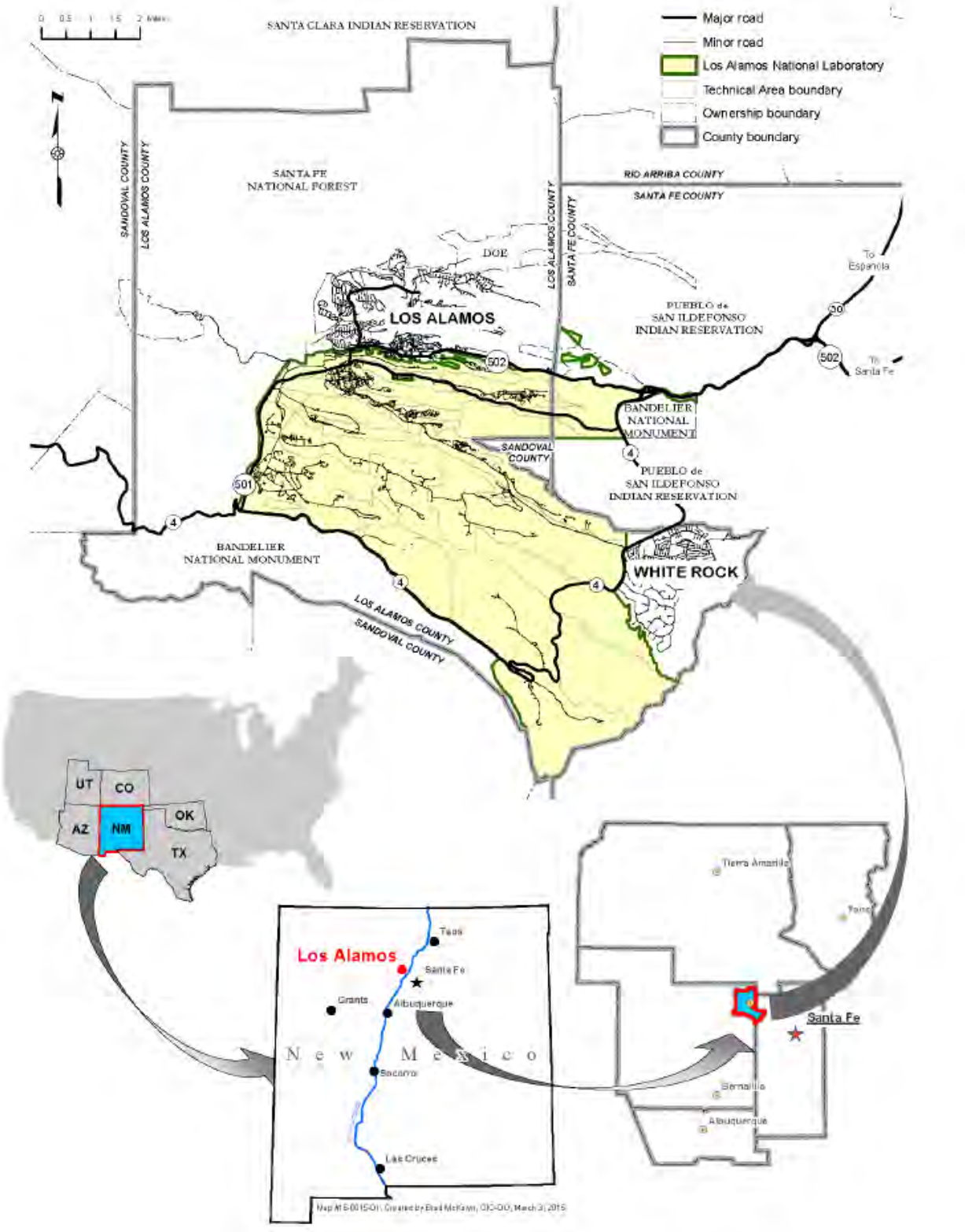
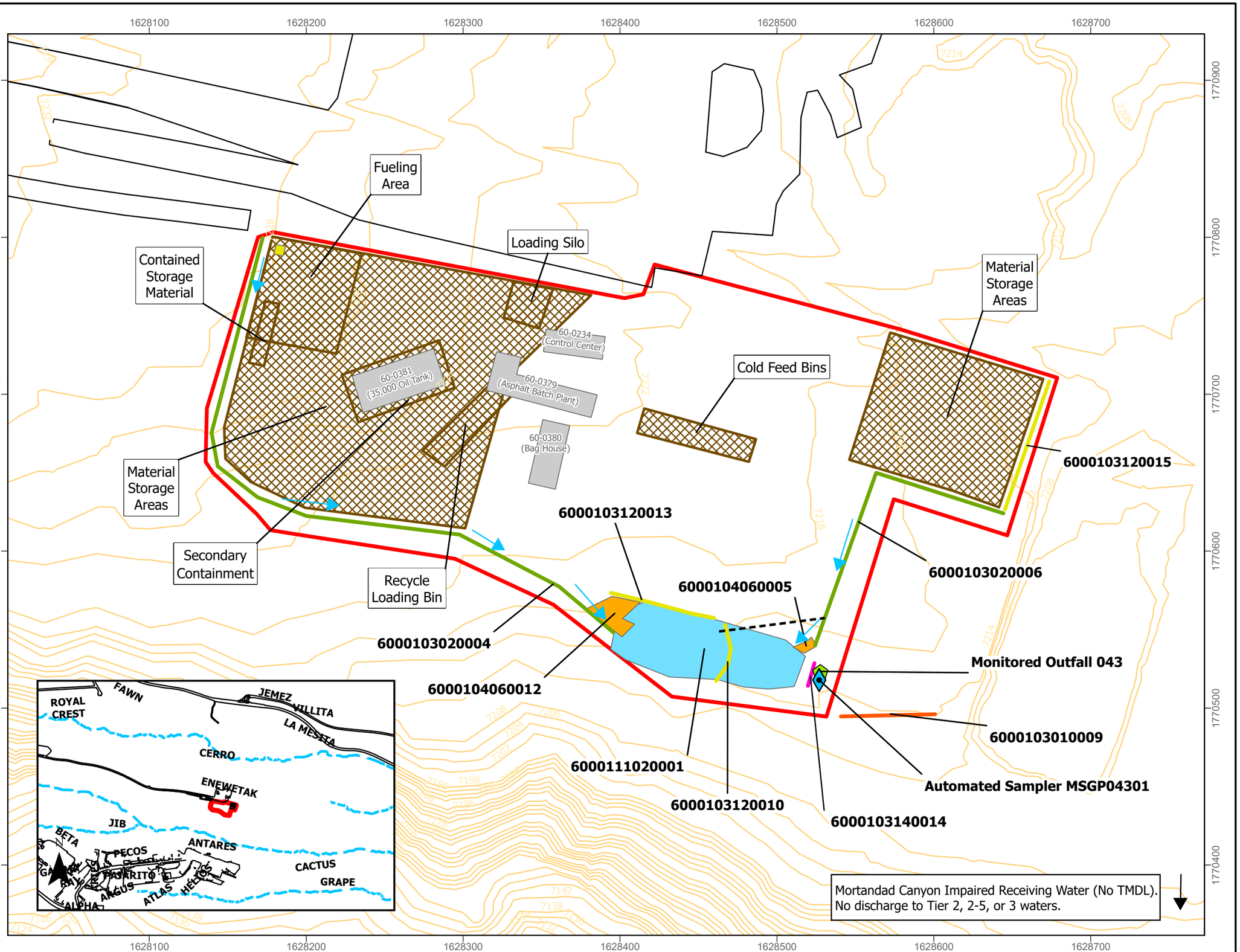


FIGURE B-1: FACILITY SITE MAP

TA-60
ASPHALT BATCH PLANT
SITE MAP



- Automated Samplers
- Monitored Outfalls
- Base Course Berm
- Coir Log
- Earthen Berm
- Rock Berm
- Drainage
- Paved Roads
- 2 ft Contour
- Boundary of Industrial Activity
- Detention Pond
- Rip Rap
- Dumpster
- Industrial Activity Areas
- LANL Structues
- Culvert
- Flow Direction

2.3 Acres, 0% Impervious Surface.
Note - All Areas are within Developed Core for Mexican Spotted Owl Habitat.

Map number: 23-042-TA-60 Asphalt Batch Plant
Map created by: Robyn Hollis, IPPO
Date: December 11, 2024
Version 11

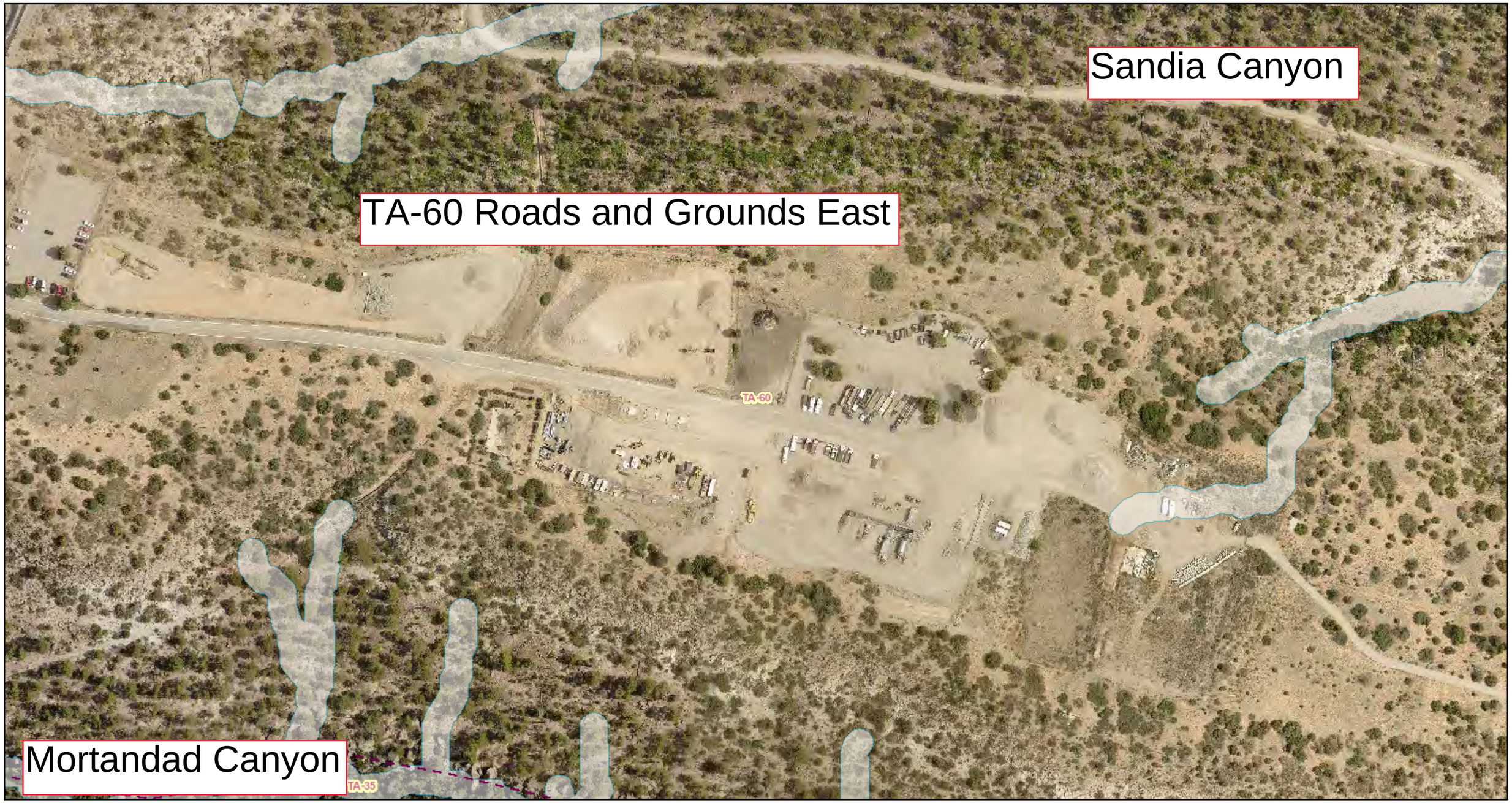
New Mexico State Plane Coordinate System Central Zone (3002)
North American Datum, 1983 (NAD 83)
US Survey Ft

DISCLAIMER: This map was created for work processes associated with the Multi-Sector General Permit. All other uses for this map should be confirmed with LANL EPC-CP staff.

N
0 30 60 120 Feet

FIGURE B-2: NEARBY RECEIVING WATERS

TA-60 Roads and Grounds East Receiving Waters Map



1/31/2022, 2:42:26 PM

Buildings

Watercourse

TA Boundary

1:2,000

0 0.03 0.05 0.1 mi

0 0.04 0.07 0.15 km

Official Use Only (OUO)
FOIA Exemption 3.
Public Disclosure of Archaeological Site Locations is Prohibited by 16 USC 470hh.

FIGURE B-3: LANL ENDANGERED SPECIES MAP

Endangered Species Habitat Within Los Alamos National Laboratory

SANTA FE NATIONAL FOREST

LOS ALAMOS TOWNSITE

PUEBLO de SAN ILDEFONSO

BANDELIER NATIONAL MONUMENT

WHITE ROCK

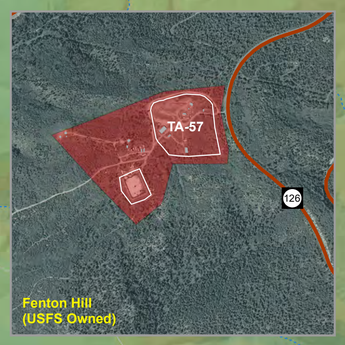
TA-43 TA-41 TA-02 TA-21 TA-73 TA-74 TA-61 TA-53 TA-60 TA-59 TA-48 TA-62 TA-03 TA-58 TA-69 TA-06 TA-64 TA-22 TA-08 TA-09 TA-35 TA-05 TA-55 TA-50 TA-52 TA-63 TA-40 TA-66 TA-67 TA-14 TA-46 TA-51 TA-18 TA-16 TA-15 TA-36 TA-11 TA-28 TA-37 TA-54 TA-49 TA-68 TA-71 TA-39 TA-70 TA-33 TA-72

Los Alamos Canyon
Upper Two-Mile Canyon
Two-Mile Canyon
Starmers Gulch
Bulldog Gulch
Pajarito Canyon
Canon de Valle
Three-Mile Canyon
Water Canyon
Potrillo Canyon
Fence Canyon
Indio Canyon
North Ancho Canyon
Ancho Canyon
Chaquehui Canyon
Rio Grande
Sandia Canyon
Mortandad Canyon
Cañada del Buey

EAST JEMEZ ROAD
PAJARITO ROAD

501 502 4 126

To Fenton Hill



Legend

- Structures
- Land ownership
- LANL Boundary
- Technical Areas
- Major roads
- Paved Roads
- Drainages

Mexican Spotted Owl
HABITAT
- Buffer
- Core

Jemez Mountains Salamander
HABITAT
- Buffer
- Core

Southwestern Willow Flycatcher
HABITAT
- Buffer
- Core

Elevation (ft)
- 5,331 - 5,500
- 5,501 - 5,750
- 5,751 - 6,000
- 6,001 - 6,250
- 6,251 - 6,500
- 6,501 - 6,750
- 6,751 - 7,000
- 7,001 - 7,250
- 7,251 - 7,500
- 7,501 - 7,750
- 7,751 - 8,000

Elevations outside LANL boundary are shown in muted colors.

N W E S

0 0.25 0.5 1 Miles
0 0.5 1 2 Kilometers

PROJECTION: New Mexico State Plane Coordinates, Central Zone, North America Datum 1983, Units Feet.

Disclaimer: This map was created as an overview map of endangered species habitat at LANL. All other uses for this map should be confirmed with the Environmental Stewardship Services Group.

Map Produced by OIO-DO-GIS Team
Date: February 21, 2014.
Map Document Reference: X:\Projects\14-Projects\14-0020\14-0020

ATTACHMENT 1: NOTICE OF INTENT, SUPPORTING DOCUMENTATION, AND UPDATES

From: no-reply@epacdx.net
Subject: [EXTERNAL] EPA NeT MSGP Change Effective LOS ALAMOS NATIONAL LABORATORY, NPDES ID: NMR050013
Date: Friday, October 28, 2022 4:48:43 PM

2022-10-28

Dear NeT User,

The change requested to the coverage below has been accepted and is now effective.

NPDES ID	Form Type	Coverage Status	Operator	Facility Name
NMR050013	Change NOI	Active	Triad National Security LLC	LOS ALAMOS NATIONAL LABORATORY

A copy of the submission can be found here.

If you have questions about this email or about the NPDES Electronic Reporting Tool (NeT), please refer to the NeT Support or e-mail NPDESereporting@epa.gov for assistance.

This is an automated notification; please do not reply to this email.

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. 2040-0300

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:** Holly L Wheeler

Organization: Triad National Security LLC

Phone: 505-667-1312 **Ext.:**

Email: hbenson@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): 38.75

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

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

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: 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	Yes	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
☑	**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

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: 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	Yes	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

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: 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	Yes	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

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	Yes	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	4212

	WAREHOUSING	Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals	
☐	**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

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: 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	Yes	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

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: 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	Yes	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

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,	Runoff from asphalt	D	07/28/1975	**Does your discharge point have any discharges subject to this**

Subpart A	emulsion facilities			**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: MORTANDAD CANYON (WITHIN LANL)

Listed Water ID: 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

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: MORTANDAD CANYON (WITHIN LANL)

Listed Water ID: 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 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

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: 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	Yes	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	**P1** - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight	4212

	WAREHOUSING	Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals	
☐	**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

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	Yes	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

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: MORTANDAD CANYON (WITHIN LANL)

Listed Water ID: 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

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	Yes	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
☑	**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

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: 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	Yes	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

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: 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	Yes	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	4212

		Terminals	
☐	**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

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	Yes	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

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	Yes	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

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: 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	Yes	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
☐	**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

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: 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	Yes	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

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:** **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
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]	Milligrams per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	Yes	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	**AA1** - Fabricated Metal Products, Except Machinery and Transportation Equipment, and	3499

	PRODUCTS	Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	
☐	**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.

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	Yes	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

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	Yes	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

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�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.

			SIC/Activity

	Sector	Subsector	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

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
☑	**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.

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	Yes	No
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]	Milligrams 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: Holly Wheeler

Phone: 5056671312 **Ext.:**

Email: hbenson@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-0538

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
Concurrence_8DEC2013_Biological Assessment of Jemez Mtn Salamander site Plan (2).pdf (attachment/806504)	05/19/2021	239.87 KB
2015-0538_USFWS Concurrence Letter_8-2015.pdf (attachment/806503)	05/19/2021	94.97 KB
1999 HMP Concurrence Letter USFWS to DOE.pdf (attachment/806502)	05/19/2021	276.65 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
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: 09/30/2022 6:31 PM ET

From:	no-reply@epacdx.net
To:	no-reply@epacdx.net
Subject:	[EXTERNAL] EPA Multi-Sector General Permit (MSGP) Authorization for: LOS ALAMOS NATIONAL LABORATORY - NPDES Number: NMR050013
Date:	Friday, June 25, 2021 4:00:27 PM
Attachments:	ATT00001.png

2021-06-25

The Environmental Protection Agency (EPA) has received a Notice of Intent (NOI) requesting coverage under the EPA 2021 Multi-Sector General Permit (2021 MSGP). A copy of the NOI can be found here. The discharge authorization date for Triad National Security LLC to discharge stormwater and allowable non-stormwater associated with industrial activity at LOS ALAMOS NATIONAL LABORATORY located at PO BOX 1663, MS K490, LOS ALAMOS, NM 87545 under the 2021 MSGP is 06/25/2021. For tracking and inquiry purposes, your NPDES ID is NMR050013.

As you know, the 2021 MSGP requires that you develop a Stormwater Pollution Prevention Plan (SWPPP) prior to submitting your NOI. You should keep this email, along with any other correspondence with EPA, with your SWPPP at the facility as verification of coverage (see Part 6). All relevant provisions of the 2021 MSGP must be met, and any permit noncompliance constitutes a violation of the permit and the Clean Water Act (CWA).

The 2021 MSGP includes specific requirements for the implementation of stormwater control measures to minimize pollutant discharges and meet the permit's effluent limitations (e.g., minimizing exposure, good housekeeping, maintenance activities, spill prevention and response, employee training). The permit also requires conducting facility inspections and visual assessments of your discharges, and taking corrective actions and Additional Implementation Measures (AIM) as necessary. You must comply with any additional sector-specific requirements applicable to your industrial sector(s) in Part 8, any state-or tribal-specific requirements in Part 9, and any additional monitoring required by EPA pursuant to Part 4.2.6 (see https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#msgp).

You are also required to submit an Annual Report in accordance with Part 7.4 of the MSGP that will contain the results from your past calendar year's routine facility inspections, quarterly visual assessments, and corrective actions including any required AIM documentation. Annual Reports must be submitted to EPA by January 30th each year via EPA's NPDES e-Reporting Tool (NeT) which can be accessed at https://npdes-ereporting.epa.gov/net-msgp.

The 2021 MSGP includes six types of analytical monitoring, one or more of which will now apply to your discharges:

- Indicator monitoring (see Part 4.2.1 and Part 8);
- Benchmark monitoring (see Part 4.2.2 and Part 8);
- Effluent limitations guidelines monitoring (see Part 4.2.3 and Part 8);
- State- or tribal-specific monitoring (see Part 4.2.4 and Part 9);
- Impaired waters monitoring (see Part 4.2.5); and

- Other monitoring as required by EPA (see Part 4.2.6).

You will receive a separate notification summarizing your monitoring and reporting requirements.

Please note that this email only confirms the receipt of a complete NOI and does not represent a determination by EPA regarding the validity of the information you provided in your NOI. Your electronic signature on the NOI form certifies that you have correctly determined that you are eligible for coverage under this permit and the information is true, accurate, and complete to the best of your knowledge. Discharges are not authorized if your NOI is inaccurate or if you were never eligible for permit coverage.

If you have questions about this email or about NeT, please refer to the NeT Help Center or call 877-227-8965 or e-mail NPDESereporting@epa.gov for assistance.

This is an automated response; please do not reply to this email.

From: no-reply@epacdx.net
To: no-reply@epacdx.net
Subject: [EXTERNAL] EPA NeT MSGP Form Certified: LOS ALAMOS NATIONAL LABORATORY - NPDES ID: NMR050013
Date: Wednesday, May 26, 2021 3:42:07 PM

2021-05-26

Dear NeT User,

Jennifer payne successfully certified the following forms under the MSGP:

NPDES ID	Form Type	Operator	Facility Name	Year	Review Date Target End
NMR050013	Renew NOI	Triad National Security LLC	LOS ALAMOS NATIONAL LABORATORY	n/a	06/25/2021

A copy of the submission can be found here.

If you have questions about this email or about the NPDES Electronic Reporting Tool (NeT), please refer to the NeT Help Center or e-mail NPDESereporting@epa.gov for assistance.

This is an automated notification; please do not reply to this email.

From: no-reply@epacdx.net
To: no-reply@epacdx.net
Subject: [EXTERNAL] Summary of Analytical Monitoring and Reporting Requirements for LOS ALAMOS NATIONAL LABORATORY - NPDES ID: NMR050013 - Discharge Authorization Date: 06/25/2021
Date: Friday, June 25, 2021 4:00:27 PM

2021-06-25

This email serves as a reminder that the Operator of LOS ALAMOS NATIONAL LABORATORY located at PO BOX 1663, MS K490, LOS ALAMOS, NM 87545 has active permit coverage under the EPA 2021 Multi-Sector General Permit (MSGP) and is required to complete analytical monitoring of its discharges and electronically submit results in Discharge Monitoring Reports (DMRs) using NetDMR, EPA's electronic DMR system, in accordance with Part 7.3.1 of the 2021 MSGP (for more information visit: https://www.epa.gov/compliance/npdes-ereporting).

Per Part 4.1.7 of the 2021 MSGP, monitoring requirements will begin in the first full calendar quarter following your date of discharge authorization. The quarters are defined as (unless modified in accordance with Part 4.1.6):

- January 1 - March 31
- April 1 - June 30
- July 1 - September 30
- October 1 - December 31

Your monitoring requirements (i.e., parameters required to be analyzed, quantification units, and sampling frequency) will be prepopulated on your electronic DMR form and can be reviewed in NetDMR, which is accessible through the EPA's Central Data Exchange (CDX) at https://cdxnodengn.epa.gov/net-netdmr/ using your Central Data Exchange (CDX) account User ID and Password. For more information on adding the NetDMR program service or accessing your facility in NetDMR, please visit the NetDMR Support Portal.

The DMRs in NetDMR are generated based on information (i.e.,subsector(s), impairment status of receiving waters, applicability of effluent limitation guidelines (ELG), and location) reported for your facility in the Notice of Intent (NOI) submitted to EPA on 05/26/2021 via the NPDES e-Reporting Tool Multi Sector General Permit (NeT MSGP). A copy of the NOI can be found here. Once you have access to NetDMR, carefully review your facility's electronic DMRs to ensure that they reflect the monitoring requirements as outlined in Part 4 of the 2021 MSGP; Part 8, which provides sector-specific Indicator, Benchmark, and applicable ELG parameters; and Part 9, which provides specific monitoring requirements, if any, that apply in individual states and Indian country. Please contact your EPA Regional Authority immediately if you notice any discrepancies. A list of EPA Regional contacts is provided in the NeT Help Center.

Listed below is a summary of your monitoring requirements:

Discharge Point	Sector	Subsector	SIC	Monitoring Type	Frequency	Monitoring Start Date	Initial DMR Due Date
				Indicator			

039	P	P1	4212	Monitoring - COD, TSS, pH	Quarterly	2021-07-01	2021-10-30
039				Impaired Waters	Annual	2021-07-01	2022-07-31
032	P	P1	4212	Indicator Monitoring - COD, TSS, pH	Quarterly	2021-07-01	2021-10-30
032				Impaired Waters	Annual	2021-07-01	2022-07-31
043	D	D1	2951	ELG	Annual	2021-07-01	2022-07-31
043	D	D1	2951	Benchmark	Quarterly	2021-07-01	2021-10-30
043				Impaired Waters	Annual	2021-07-01	2022-07-31
043				Indicator Monitoring - PAH	Bi-Annual	2021-07-01	2022-01-30
031	P	P1	4212	Indicator Monitoring - COD, TSS, pH	Quarterly	2021-07-01	2021-10-30
031				Impaired Waters	Annual	2021-07-01	2022-07-31
029	N	N2	5093	Indicator Monitoring - COD, TSS, pH	Quarterly	2021-07-01	2021-10-30
029				Impaired Waters	Annual	2021-07-01	2022-07-31
075	P	P1	4212	Indicator Monitoring - COD, TSS, pH	Quarterly	2021-07-01	2021-10-30
075				Impaired Waters	Annual	2021-07-01	2022-07-31
042	P	P1	4212	Indicator Monitoring - COD, TSS, pH	Quarterly	2021-07-01	2021-10-30
042				Impaired Waters	Annual	2021-07-01	2022-07-31
022	AA	AA1	3499	Benchmark	Quarterly	2021-07-01	2021-10-30
022	P	P1	4212	Indicator Monitoring - COD, TSS, pH	Quarterly	2021-07-01	2021-10-30
							2022-

022				Impaired Waters	Annual	2021-07-01	07-31
026	P	P1	4212	Indicator Monitoring - COD, TSS, pH	Quarterly	2021-07-01	2021-10-30
026				Impaired Waters	Annual	2021-07-01	2022-07-31
037	P	P1	4212	Indicator Monitoring - COD, TSS, pH	Quarterly	2021-07-01	2021-10-30
037				Impaired Waters	Annual	2021-07-01	2022-07-31
076	AA	AA1	3499	Benchmark	Quarterly	2021-07-01	2021-10-30
076				Impaired Waters	Annual	2021-07-01	2022-07-31
077	AA	AA1	3499	Benchmark	Quarterly	2021-07-01	2021-10-30
077				Impaired Waters	Annual	2021-07-01	2022-07-31
078	P	P1	4212	Indicator Monitoring - COD, TSS, pH	Quarterly	2021-07-01	2021-10-30
078				Impaired Waters	Annual	2021-07-01	2022-07-31
079	AA	AA1	3499	Benchmark	Quarterly	2021-07-01	2021-10-30
079				Impaired Waters	Annual	2021-07-01	2022-07-31

Please refer to EPA's Industrial Stormwater Monitoring and Sampling Guide at https://www.epa.gov/npdes/industrial-stormwater-guidance for guidance about monitoring. The 2021 MSGP and additional guidance are available at: https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp.

If you have any questions regarding CDX/NetDMR related content please contact the NPDES E-Reporting HelpDesk at 1-877-227-8965 or by e-mail at NPDESereporting@epa.gov.

This is an automated response; please do not reply to this email.

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

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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: MORTANDAD CANYON (WITHIN LANL)

Listed Water ID: 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: MORTANDAD CANYON (WITHIN LANL)

Listed Water ID: 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:	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 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:	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 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:	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

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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

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 Osuna NE
Albuquerque, New Mexico 87113
Phone: (505) 346-2525 Fax: (505) 346-2542

February 12, 1999

Cons. #2-22-98-I-336
Cons. #2-22-95-I-108

David A. Gurule, Acting Area Manager
Department of Energy
Albuquerque Operations Office
Los Alamos Area Office
Los Alamos, New Mexico 87545

Dear Mr. Gurule:

This responds to your letter dated August 6, 1998, requesting our review and concurrence with the Threatened and Endangered Species Habitat Management Plan (HMP) for Los Alamos National Laboratory (LANL). The HMP was prepared by the LANL Ecology Group for the Department of Energy (DOE) as part of the Dual-Axis Radiographic Hydrodynamics Test Facility (DAHRT) Mitigation Action Plan. The U.S. Fish and Wildlife Service (Service) has worked closely with LANL in the development of the HMP. As a result of discussions and meetings following the August 6, 1998, submittal, additional information/clarification was provided via letters, updated Biological Evaluations/HMPs, and e-mail messages, dated September 8, October 20, November 25, and December 9, 1998, and January 4, January 22, and January 29, 1999. The purpose of the HMP is to provide for the protection of threatened and endangered species and their habitats on LANL. The HMP consists of three components that must be used together to assure proper management of the threatened and endangered species: an Overview Document, Site Plans, and Monitoring Plans. It was determined that if all the restrictions and protective measures outlined in the HMP are strictly followed, the implementation of this HMP may affect, but is not likely to adversely affect the Mexican spotted owl (owl), peregrine falcon (falcon), bald eagle (eagle), and southwestern willow flycatcher (flycatcher). The Biological Evaluation (BE) also considered potential impacts on the black-footed ferret, arctic peregrine falcon, and whooping crane. It was determined that there would be no effect on these species because of a lack of habitat.

Property at LANL varies from remote isolation to heavily developed and/or industrialized. The Service agrees, as stated in the Overview document, that a number of activities at LANL have the potential to adversely impact threatened and endangered species. Many of the industrial processes used at LANL have involved hazardous and radioactive materials. These materials as well as remediation of potential release sites may disturb

or reduce population viability of threatened and endangered species. In addition, other potential sources of disturbance or habitat alterations are possible as a result of the residential and commercial development in the LANL area. While the HMP identifies potential sources of adverse effects, this consultation does not necessarily cover all of those impacts. The Service does not anticipate that DOE will be able to plan all of its operations at LANL in accordance with this plan. The direct effects of most actions can be minimized through implementation of the HMP; however, a more thorough assessment is necessary to adequately evaluate the indirect and cumulative impacts of all actions that are funded, authorized, and permitted by DOE, as well as potential impacts from interrelated and interdependent actions. It was agreed (by Service, DOE, and LANL personnel) that consultation concerning ongoing LANL operations would be handled separately from the HMP, under the consultation on the Site-Wide EIS.

The Site Plans identify the particular areas of LANL where operations might impact known occupied or potential habitat for the flycatcher, eagle, falcon, and owl. Suitable habitat for these species, along with protective buffer areas surrounding their habitat, have been designated as Areas of Environmental Interest (AEIs). For the flycatcher, one AEI was established based on an observation of a migrant male flycatcher in 1997. The AEI is located in the Pajarito wetland area and includes the best available riparian habitat. For eagles, one AEI has been identified for wintering habitat that exists along the Rio Grande on the eastern edge of LANL. It is based on the locations of known and potential roost sites. For the falcon, four AEIs have been identified. They consist of the habitat previously identified under the 1985 interagency agreement. These areas are centered on deep canyons on the eastern side of LANL or on adjacent lands. LANL has agreed to implement the recommended management guidelines, which utilize four management zones (A through D) to protect nesting peregrine falcons from disturbance. For the owl, six AEIs have been identified, but only one of these sites is known to be occupied. These AEIs are based on and located in canyons that have been defined as suitable nest/roost habitat.

The AEI management section of each Site Plan provides guidelines for LANL operations to reduce or eliminate threats to each species. The primary threats on LANL property are (1) impacts on habitat quality from LANL operations and (2) disturbance of nesting or roosting birds. The site plans provide information on their location and guidelines for their management. The AEI Site Plans consist of a species description, descriptions of the AEIs for the species, descriptions of current impacts in the AEIs, management plans that describe allowable activities within core and buffer areas under the guidelines of the sites plan and protective measures. Activities discussed in the site plans include day to day activities, such as access into an AEI, as well as long-term projects, such as levels of habitat alteration in the buffer area of an AEI. Restrictions will be implemented on activities that could cause disturbance (people, vehicles and machinery, aircraft, light production, and noise) within occupied AEIs. The location of a potential disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether or not an activity is allowable. Habitat alterations are always restricted in core areas, but a limited amount of future development is allowed in currently undeveloped DOE-controlled buffer areas under the guidelines of this site plan as long

as it does not alter habitat in the undeveloped AEI (including light and noise guidelines). The purpose of buffer areas is to protect core areas from undue disturbance or habitat alteration or habitat degradation. Each AEI is specific to the situation or circumstances of the site it covers. According to the HMP, development beyond the cap established for each AEI, or greater than 2 hectares in size, including the developed-area border, requires independent review for ESA compliance.

Varying amounts of development and/or ongoing activities exist in the cores and buffers of each AEI. These developments may include residential, commercial, and light industrial areas, as well as roads and utility corridors. Existing/ongoing activities may include periodic scientific surveys, power line maintenance, recreational use, residential development, ER Program activities, and possible use of a firing site. Potential disturbance may be associated with automobile and truck traffic, construction activities, a live-fire range, explosives testing, and aircraft traffic at the County airport. Ongoing activities in developed areas constitute a baseline condition for the AEIs and are not restricted. New activities including further development within already existing developed areas are not restricted unless they impact undeveloped portions of an AEI core. If a proposed action within a developed area does not meet site plan guidelines, it must be individually reviewed for ESA compliance.

Some activities such as utility corridor maintenance, fuels management, and a limited amount of development are allowed in each AEI (as described in the HMP). The potential impacts of these activities are considered to be insignificant or discountable because they will occur in habitat that has been previously disturbed or is of poor quality due to its size or proximity to already developed areas. It is our understanding (based on the January 22, 1999, e-mail response from Terry Foxx) that the fuels management activities within the owl AEIs will only consist of ongoing and proposed fire protection activities around existing facilities (e.g. thinning around buildings) or those activities that are already covered under the Dome Fire Emergency BA. The other fire management activities mentioned in the HMP will go through the ESH-ID process and further consultation with the Service when a fire management plan is completed in the future.

In general, activities that detrimentally alter habitat in an AEI or would cause unacceptable disturbance to the species inhabiting the AEI are not allowed under the guidelines of a Site Plan. The Site Plans are designed to minimize impacts to threatened and endangered species and their habitat. The protective measures and restrictions outlined in the Site Plans were developed using the best available data, in cooperation with Service biologists.

The U.S. Fish and Wildlife Service concurs with DOE's determination that implementation of LANL's HMP may affect, but is not likely to adversely affect the Mexican spotted owl, American peregrine falcon, bald eagle, and southwestern willow flycatcher based on the protective measures described in the BA and HMP. If all the restrictions and protective measures outlined in the HMP are strictly followed, potential impacts on owls, falcons, eagles, and flycatchers are expected to be insignificant or

discountable for the following reasons: 1) appropriate seasonal restrictions will be implemented to avoid disturbance to potentially breeding flycatchers, peregrines, and owls and wintering eagles; 2) no nest or roost habitat for any listed species will be altered; 3) the total amount of potential foraging habitat that could be impacted within each species home ranges is expected to be insignificant compared to the amount of available foraging habitat throughout the area; 4) monitoring plans have been developed as an integral part of the HMP; and 5) a mechanism for incorporating necessary technical and regulatory changes and updating the HMP has been included (page 32 of the Overview Document).

In future communications regarding this project, please refer to Consultation #2-22-98-I-336. If we can be of further assistance, please contact Carol Torrez of my staff at (505) 346-2525, ext. 115.

Sincerely,

Jennifer Fowler-Propst
Field Supervisor

cc:
Teralene Foxx, Project Manager, Ecology Group, Los Alamos National Laboratory, P.O. Box 1663, Mail Stop M887, Los Alamos, New Mexico 87545
Elizabeth Withers, U.S. Department of Energy, Los Alamos Area Office, 35th Street, Los Alamos, New Mexico
Field Supervisor, Ecological Services, U.S. Fish and Wildlife Service, Phoenix, Arizona

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 Osuna NE
Albuquerque, New Mexico 87113
Phone: (505) 346-2525 Fax: (505) 346-2542

December 9, 2013

Cons. #02ENNM00-2014-I-0014

Geoffrey L. Beausoleil, Acting Manager
National Nuclear Security Administration, Los Alamos Field Office
Department of Energy
Los Alamos, New Mexico 87544

Dear Mr. Beausoleil:

Thank you for your biological assessment entitled, "Biological Assessment of the Effects of Implementing the Jemez Mountains Salamander Site Plan on Federally Listed Threatened and Endangered Species at Los Alamos National Laboratory" (BA); the request for informal consultation and conferencing received on July 25, 2013 and supplemental information supplied in the "Jemez Mountains Salamander (*Plethodon neomexicanus*) Los Alamos National Laboratory (LANL) Site Plan" (Site Plan); and emails dated November 19 and December 3, 2013. The Department of Energy (DOE) requested concurrence with the determination of effects for the endangered Jemez Mountains salamander (*Plethodon* neomexicanus) (salamander) pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA), as amended (16 U.S.C. § 1531 *et seq.*). Your proposed action consists of implementing the Site Plan, and includes of the incorporation of this Site Plan into LANL's Habitat Management Plan (HMP). The HMP was consulted upon in 1999 (Consultation #2-22-981-336) as the primary mechanism to ensure compliance with the ESA at LANL. The actions described in the Site Plan and analyzed in the BA, and supplemental emails are hereby incorporated by reference. You determined that implementing the Site Plan "may affect, is not likely to adversely affect" the salamander, and includes placing restrictions on certain types of work in areas identified as core habitat for the salamander on LANL property with the purpose of ensuring that effects to the salamander from those actions identified in the Site Plan are insignificant and discountable.

The Site Plan does not include any areas within designated salamander critical habitat, indicating that no critical habitat will be affected. The Site Plan has modeled and field validated the model to identify the areas on LANL property with the highest potential to be occupied by salamanders based on habitat features for the salamander. Each area identified by the modeling is termed "Area of Environmental Interest" (AEI) and consists of a "core area" and a "buffer area". The core area habitat is defined as suitable habitat where the salamander occurs or may occur at LANL. The core area habitat consists of sections of north-facing slope that contain the required

micro-habitat to support salamanders. The buffer area is 328 feet (100 meters) wide extending outward from the edge of the core area. Only the Los Alamos Canyon AEI is known to be occupied based on surveys. Surveys for the salamander are known to have a very low detection rate for occupied areas and DOE has assumed that all AEIs at LANL are occupied at all times by the salamander.

Within the Site Plan, DOE has assessed activities that could cause habitat alteration and includes any action that alters the soil structure, vegetative components necessary to the species, water quality, or hydrology in undeveloped areas of an AEI. If an activity were to take place outside of the AEI the activity will be assessed if it will have effects inside the AEI core. Within the core areas, only activities specified within the Site Plan and those that have no effect in the core areas (e.g. no habitat alterations or effects within the core areas) will be conducted without further consultation with the Service. Habitat alterations also include soil pits for soil samples deeper than 6 inches (15.2 centimeters) using either hand or mechanized augers. Within the Site Plan, DOE is proposing fuels management practices to reduce wildfire risk and maintenance of utility corridors within the AEIs. The likelihood that salamanders may be affected by the actions in the Site Plan is very low. To ensure that effects to the salamander are insignificant and discountable, the Site Plan incorporates the following conservation measures as restrictions to the identified work:

Fuels Management Practices to Reduce Wildfire Risk

a. Within undeveloped core areas, thinning trees to a level of 80% canopy cover or higher may occur; tree thinning below 80% canopy cover is not part of the action under this consultation.
b. Large logs on the ground will be left in place and not chipped.
c. Large trees that are felled will be left as large logs on the ground
d. When appropriate, smaller trees and understory shrubs that may be thinned will be dispersed and left on-site to aid in soil moisture retention.
e. In buffer areas, thinning of trees may occur to the current LANL-approved prescription level; clear-cutting will not occur.
f. Thinning activities will not occur during the rainy season when salamanders are surface active, between July 1 – October 31. Thinning activities may occur earlier in October if freezing temperatures are present.
g. In the unlikely event that a salamander is observed surface active during thinning activities, all activities shall cease, and the Service will be notified.

Utility Corridors

a. Cutting trees that threaten power lines may occur within 26 feet (8 meters) of either side of an existing utility line at LANL
b. New utility lines and utility lines requiring clearance of a right-of-way greater than 52 feet (16 meters) total in core habitat is not part of the action under this consultation.

Habitat alterations other than the fuels management practices and utility corridor maintenance described above will not occur in undeveloped core areas under the guidelines of the Site Plan or this consultation. The Service concurs with DOE's determination regarding the salamander for the following reasons:

Within the Site Plan, DOE has placed the above detailed restrictions to ensure that any effects to the salamander and its habitat remain insignificant and discountable. Canopy cover will remain at 80% or greater in undeveloped core areas and fire management actions will occur outside of the salamander surface activity period. Maintaining utility line corridors in areas with existing infrastructure (the utility lines) by removing individual hazard trees is not expected to have any measurable effect on salamanders or their potential habitat. Consequently, we concur that potential effects to the salamander from the proposed action will be insignificant and discountable.

This concludes section 7 consultation regarding the proposed action. If monitoring or other information results in modification or the inability to complete all aspects of the proposed action, consultation should be reinitiated. Please contact the Service if: 1) future surveys detect listed, proposed or candidate species in habitats where they have not been previously observed; 2) the proposed action changes or new information reveals effects of the proposal to listed species that have not been considered in this analysis; or 3) a new species is listed or critical habitat designated that may be affected by the action.

Thank you for your concern for endangered and threatened species and New Mexico's wildlife habitats. In future correspondence regarding this project, please refer to consultation #02ENNM00-2014-I-0014. If you have any questions, please contact Michelle Christman of my staff at (505) 761-4715.

Sincerely,

for Wally Murphy
Field Supervisor

cc:
Wildlife Biologist, Cuba Ranger District, Cuba, NM (Attn: Ramon Borrego)
Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico

United States Department of the Interior

FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office
2105 Osuna Road NE
Albuquerque, New Mexico 87113
Telephone 505-346-2525 Fax 505-346-2542
www.fws.gov/southwest/es/newmexico/

August 6, 2015

Cons. # 02ENNM00-2015-I-0538

Kimberly Davis Lebak, Manager
Department of Energy
National Nuclear Security Administration
Los Alamos Field Office
Los Alamos, New Mexico 87544

Dear Ms. Lebak:

This responds to your July 9, 2015, cover letter and biological assessment (BA) requesting informal consultation for the addition of the Western distinct population segment of the yellow-billed cuckoo (*Coccyzus americanus occidentalis*) (cuckoo) and the New Mexico meadow jumping mouse (*Zapus hudsonius luteus*) (jumping mouse) to the Los Alamos National Laboratory Habitat Management Plan, Los Alamos, New Mexico. As documented in your BA, which is hereby incorporated by reference, we find that your proposed action will have insignificant and discountable effects to the cuckoo and the jumping mouse. Therefore, the Service concurs with your determination of "may affect, is not likely to adversely affect" for the cuckoo and the jumping mouse.

This concludes section 7 consultation regarding the proposed action. If monitoring or other information results in modification or the inability to complete all aspects of the proposed action, consultation should be reinitiated. Please contact the Service if: 1) future surveys detect listed, proposed or candidate species in habitats where they have not been previously observed; 2) the proposed action changes or new information reveals effects of the proposal to listed species that have not been considered in this analysis; or 3) a new species is listed or critical habitat designated that may be affected by the action.

Thank you for your concern for endangered species and New Mexico's wildlife habitats. If you have any questions, please contact Eric Hein of my staff at the letterhead address or at (505) 761-4735.

Sincerely,

for Wally Murphy
Field Supervisor

cc:
Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico

ATTACHMENT 2: SWPPP AMENDMENTS

Date	Plan Section	Reason for Amendment	Amendment
February, 2024	All	Updated the SWPPP to separate it from the TA-60 Roads and Grounds Facility and to reflect the new Asphalt Batch Plant. Also included spills, Routine Facility Inspections, Discharge Monitoring Reports, and corrective action reports for 2023.	New document (Revision 0)
January 2025	All	Annual SWPPP updates to include changes to the Stormwater Pollution Prevention Team, spills, Routine Facility Inspections, Discharge Monitoring Reports, and Corrective action reports for 2024.	Insert all required documentation for the yearly revision.

ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES

Unauthorized Non-Storm Water Discharge Assessment and Certification

Facility:	TA-60 Asphalt Batch Plant		
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**
Monitored Outfall 043	None	Visual evaluation	None

Assessor:

Print Name:	Signature:	Title:	Date Assessed:
Leonard F. Sandoval		Deployed Environmental Professional	1/2/2025

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:
David E. Trujillo		UI-OPS Manager	1-7-25 DT

*SIO = Substantially Identical Outfall

ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM

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

Environmental Protection & Compliance Division
Compliance Programs Group

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
Jennifer E. Payne, Triad, EPC-DO, jpayne@lanl.gov
Kristen Honig, Triad, EPC-DO, khonig@lanl.gov
Steven L. Story, Triad, EPC-CP, story@lanl.gov
Sarah S. Holcomb, Triad, EPC-CP, sholcomb@lanl.gov
Terrill W. Lemke, Triad, EPC-CP, tlemke@lanl.gov
Maxine M. McReynolds, Triad, GC-ESH, mcreynolds@lanl.gov
Cristina A. Mulcahy, Triad, GC-ESH, mulcahy@lanl.gov
emla.docs@em.doe.gov
epc-correspondence@lanl.gov
eshqss-dcrm@lanl.gov
gc-esh@lanl.gov

ATTACHMENT 5: DISCHARGE MONITORING REPORTS

Permit

Permit ID:	NMR050013	**Major:**	
Permittee:	Triad National Security LLC	**Permittee Address:**	PO Box 1663 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	043 - External Outfall	**Discharge:**	043-3Q - Quarterly ELG Follow-Up Monitoring

Report Dates & Status

Monitoring Period:	From 12/01/23 to 02/29/24	**DMR Due Date:**	04/30/24
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			
00530	**Solids, total suspended**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					<=15.0 30DA AVG	<=23.0 DAILY MX	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		NODI					C - No Discharge	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 14:57 (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 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	043 - External Outfall	**Discharge:**	043-3Q - Quarterly ELG Follow-Up Monitoring

Report Dates & Status

Monitoring Period:	From 03/01/24 to 05/31/24	**DMR Due Date:**	07/31/24
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			
00530	**Solids, total suspended**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					<=15.0 30DA AVG	<=23.0 DAILY MX	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		NODI					C - No Discharge	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 12:05 (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 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	043 - External Outfall	**Discharge:**	043-3Q - Quarterly ELG Follow-Up Monitoring

Report Dates & Status

Monitoring Period:	From 06/01/24 to 08/31/24	**DMR Due Date:**	10/31/24
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			
00530	**Solids, total suspended**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					<=15.0 30DA AVG	<=23.0 DAILY MX	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		NODI					C - No Discharge	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-24-31472

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 08:51 (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 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	043 - External Outfall	**Discharge:**	043-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			
01040	**Copper, dissolved [as Cu]**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	28 - ug/L		01/YR - Annual	GR - GRAB
NODI: -		NODI						C - No Discharge				
39516	**Polychlorinated biphenyls [PCBs]**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	28 - ug/L		01/YR - Annual	GR - GRAB
NODI: -		NODI						C - No Discharge				
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 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	043 - External Outfall	**Discharge:**	043-1D - Asphalt Paving and roofing Materials and Lubricant Manufacturing

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			
00400	**pH**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.				>=6.0 MINIMUM		<=9.0 MAXIMUM	12 - SU		01/YR - Annual	GR - GRAB
NODI: -		NODI				C - No Discharge		C - No Discharge				
00530	**Solids, total suspended**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					<=15.0 30DA AVG	<=23.0 DAILY MX	19 - mg/L		01/YR - Annual	GR - GRAB
NODI: -		NODI					C - No Discharge	C - No Discharge				
00556	**Oil & Grease**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					<=10.0 30DA AVG	<=15.0 DAILY MX	19 - mg/L		01/YR - Annual	GR - GRAB
NODI: -		NODI					C - No Discharge	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 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	043 - External Outfall	**Discharge:**	043-D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing

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			
00530	**Solids, total suspended**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.						<=100.0 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-24-31472

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 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	043 - External Outfall	**Discharge:**	043-D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing

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			
00530	**Solids, total suspended**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.						<=100.0 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 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	043 - External Outfall	**Discharge:**	043-D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing

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			
00530	**Solids, total suspended**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.						<=100.0 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)

DMR Copy of Record

Permit

Permit #:	**NMR050013**	**Permittee:**	Triad National Security LLC	**Facility:**	LOS ALAMOS NATIONAL LABORATORY
Major:	No	**Permittee Address:**	PO Box 1663 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-1D** Asphalt Paving and roofing Materials and Lubricant Manufacturing		

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			
00400	**pH**	1 - Effluent Gross	0	--	Sample						=	7.68			=	7.68	12 - SU	0	01/YR - Annual	GR - GRAB
					Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/YR - Annual	GR - GRAB
					Value NODI															
X 00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample								=	70.3	=	70.3	19 - mg/L	1	01/YR - Annual	GR - GRAB
					Permit Req.								<=	15.0 30DA AVG	<=	23.0 DAILY MX	19 - mg/L		01/YR - Annual	GR - GRAB
					Value NODI															
00556	**Oil & Grease**	1 - Effluent Gross	0	--	Sample								=	0.0	=	0.0	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.								<=	10.0 30DA AVG	<=	15.0 DAILY MX	19 - mg/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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
00530	Solids, total suspended	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes
00530	Solids, total suspended	1 - Effluent Gross	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

LA-UR-22-28977. TSS exceeded the effluent limitation guideline daily max. Hg was not detected therefore monitoring will be discontinued until permit year 4 (Part 4.2.5.1.a).

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2022-08-31 16:57 (Time Zone: -05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2022-08-31 16:57 (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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-IW** 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			
01040	**Copper, dissolved [as Cu]**	1 - Effluent Gross	0	--	Sample											3.64	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		01/YR - Annual	GR - GRAB
					Value NODI															
X 39516	**Polychlorinated biphenyls [PCBs]**	1 - Effluent Gross	0	--	Sample											0.0756	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	19 - mg/L		01/YR - Annual	GR - GRAB
					Value NODI															
51931	**Alpha, gross adjusted**	1 - Effluent Gross	0	--	Sample											2.14	17 - pCi/L	0	01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	17 - pCi/L		01/YR - Annual	GR - GRAB
					Value NODI															
X 71900	**Mercury, total [as Hg]**	1 - Effluent Gross	0	--	Sample										<	0.067	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	19 - mg/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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
39516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	Units	Soft	You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units.	Yes
71900	Mercury, total [as Hg]	1 - Effluent Gross	Units	Soft	You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units.	Yes

Comments

LA-UR-22-28977. TSS exceeded the effluent limitation guideline daily max. Hg was not detected therefore monitoring will be discontinued until permit year 4 (Part 4.2.5.1.a).

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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-PX** Indicator Monitoring for PAHs		

Report Dates & Status

Monitoring Period:	**From 07/01/21 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			
34200	**Acenaphthylene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34205	**Acenaphthene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34220	**Anthracene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34230	**Benzo[b]fluoranthene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34242	**Benzo[k]fluoranthene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34247	**Benzo[a]pyrene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34320	**Chrysene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34376	**Fluoranthene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34381	**Fluorene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34403	**Indeno[1,2,3-cd]pyrene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34461	**Phenanthrene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34469	**Pyrene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34521	**Benzo[ghi]perylene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				

34526	**Benzo[a]anthracene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.												Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI												C - No Discharge				
34556	**Dibenz[a,h]anthracene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.												Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI												C - No Discharge				
34696	**Naphthalene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.												Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	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-22-20564

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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-D1** Asphalt Paving and Roofing Materials and Lubricant Manufacturing		

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			
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample															
					Permit Req.										<=	100.0 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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-D1** Asphalt Paving and Roofing Materials and Lubricant Manufacturing		

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			
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample															
					Permit Req.										<=	100.0 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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-PX** Indicator Monitoring for PAHs		

Report Dates & Status

Monitoring Period:	**From 01/01/22 to 06/30/22**	**DMR Due Date:**	**08/28/22**	**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			
34200	**Acenaphthylene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34205	**Acenaphthene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34220	**Anthracene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34230	**Benzo[b]fluoranthene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34242	**Benzo[k]fluoranthene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34247	**Benzo[a]pyrene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34320	**Chrysene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34376	**Fluoranthene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34381	**Fluorene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34403	**Indeno[1,2,3-cd]pyrene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34461	**Phenanthrene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34469	**Pyrene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															
34521	**Benzo[ghi]perylene**	1 - Effluent Gross	0	--	Sample										<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI															

34526	**Benzo[a]anthracene**	1 - Effluent Gross	0	--	Sample									<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.										Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI														
34556	**Dibenz[a,h]anthracene**	1 - Effluent Gross	0	--	Sample									<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.										Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI														
34696	**Naphthalene**	1 - Effluent Gross	0	--	Sample									<	0.0311	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.										Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	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-22-28976

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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-D1** Asphalt Paving and Roofing Materials and Lubricant Manufacturing		

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			
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample											70.3	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	100.0 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-22-28974

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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-D1** Asphalt Paving and Roofing Materials and Lubricant Manufacturing		

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			
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample											16.9	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	100.0 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-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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-3Q** Quarterly ELG Follow-Up Monitoring		

Report Dates & Status

Monitoring Period:	**From 09/01/22 to 11/30/22**	**DMR Due Date:**	**01/31/23**	**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			
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample															
					Permit Req.								<=	15.0 30DA AVG	<=	23.0 DAILY MX	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI									C - No Discharge		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-22-32729

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:	2022-12-08 08:57 (Time Zone: -06:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2022-12-14 18:40 (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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-D1** Asphalt Paving and Roofing Materials and Lubricant Manufacturing		

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			
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample															
					Permit Req.										<=	100.0 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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-PX** Indicator Monitoring for PAHs		

Report Dates & Status

Monitoring Period:	**From 07/01/21 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			
34200	**Acenaphthylene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34205	**Acenaphthene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34220	**Anthracene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34230	**Benzo[b]fluoranthene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34242	**Benzo[k]fluoranthene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34247	**Benzo[a]pyrene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34320	**Chrysene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34376	**Fluoranthene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34381	**Fluorene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34403	**Indeno[1,2,3-cd]pyrene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34461	**Phenanthrene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34469	**Pyrene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				
34521	**Benzo[ghi]perylene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI											C - No Discharge				

34526	**Benzo[a]anthracene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.												Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI												C - No Discharge				
34556	**Dibenz[a,h]anthracene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.												Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Value NODI												C - No Discharge				
34696	**Naphthalene**	1 - Effluent Gross	0	--	Sample															
					Permit Req.												Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year	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-22-20564

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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-D1** Asphalt Paving and Roofing Materials and Lubricant Manufacturing		

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			
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample															
					Permit Req.										<=	100.0 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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-D1** Asphalt Paving and Roofing Materials and Lubricant Manufacturing		

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			
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample															
					Permit Req.										<=	100.0 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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-D1** Asphalt Paving and Roofing Materials and Lubricant Manufacturing		

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			
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample															
					Permit Req.										<=	100.0 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)

DMR Copy of Record

Permit

Permit #:	**NMR050013**	**Permittee:**	Triad National Security LLC	**Facility:**	LOS ALAMOS NATIONAL LABORATORY
Major:	No	**Permittee Address:**	PO Box 1663 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-1D** Asphalt Paving and roofing Materials and Lubricant Manufacturing		

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				
00400	**pH**	1 - Effluent Gross	0	--	Sample							8.59				8.59	12 - SU			01/YR - Annual	GR - GRAB
					Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		0	01/YR - Annual	GR - GRAB
					Value NODI																
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample																
					Permit Req.								<=	15.0 30DA AVG	<=	23.0 DAILY MX	19 - mg/L			01/YR - Annual	GR - GRAB
					Value NODI									9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period					
00556	**Oil & Grease**	1 - Effluent Gross	0	--	Sample									1.315		2.63	19 - mg/L			01/YR - Annual	GR - GRAB
					Permit Req.								<=	10.0 30DA AVG	<=	15.0 DAILY MX	19 - mg/L		0	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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-IW** 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			
01040	**Copper, dissolved [as Cu]**	1 - Effluent Gross	0	--	Sample										=	5.01	28 - ug/L		01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Value NODI															
39516	**Polychlorinated biphenyls [PCBs]**	1 - Effluent Gross	0	--	Sample										=	0.0384	28 - ug/L		01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Value NODI															
51931	**Alpha, gross adjusted**	1 - Effluent Gross	0	--	Sample										=	0.256	17 - pCi/L		01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	17 - pCi/L	0	01/YR - Annual	GR - GRAB
					Value NODI															
71900	**Mercury, total [as Hg]**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		01/YR - Annual	GR - GRAB
					Value NODI											9 - Conditional Monitoring - Not Required This Period				

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 16:57 (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 Los Alamos, NM 87545	**Facility Location:**	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	043 External Outfall	**Discharge:**	**043-3Q** Quarterly ELG Follow-Up Monitoring		

Report Dates & Status

Monitoring Period:	**From 06/01/23 to 08/31/23**	**DMR Due Date:**	**10/31/23**	**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			
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample															
					Permit Req.								<=	15.0 30DA AVG	<=	23.0 DAILY MX	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI									C - No Discharge		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-23-31713

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 11:41 (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)

ATTACHMENT 6: ANNUAL REPORTS

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: 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: Terril 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 (arpiAttachment/ti26643)	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.)

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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

ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	01/06/2025	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	6013
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2025 TA60 ABP
Created By	Sandoval, Leonard (114326)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 15 degrees with a High of 39 degrees. Sunny with mixed clouds. Wind less than 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140014
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013
- Rock Berm 6000103120015

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.

- Yes

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.

- Yes

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.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

The TA-60 Asphalt Batch Plant shut down in December until March 2025.

33. Date inspection completed.

01/06/2025

34. Time inspection completed.

From 8:25 a.m. to 8:45 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

Leonard F. Sandvoval

Digitally signed by Leonard F. Sandvoval
Date: 2025.01.08 14:00:59 -07'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2025.01.10 14:42:30 -07'00'

40. Date: 1-10-25

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Documents

View Documents for this Questionnaire

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	01/09/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	1049
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		
Created by, used for transfer to EDRMS	Sandoval, Leonard		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 21 degrees with High of 27 degrees. Partly cloudy with a 70 percent chance of snow. Wind 10 to 15 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

There was 3 to 4 inches of snow and ice throughout the facility. Starting on the week of December 18, 2023 operations at the asphalt batch plant will be suspended for 6 weeks or longer depending on the weather.

33. Date inspection completed.

01/08/2024

34. Time inspection completed.

From 9:30 a.m. to 9:50 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

LEONARD SANDOVAL (Affiliate)

Digitally signed by LEONARD SANDOVAL (Affiliate)
Date: 2024.01.09 09:38:42 -07'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.01.09 16:06:48 -07'00'

40. Date: 1/9/2024

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	02/08/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	1227
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		
Created by, used for transfer to EDRMS	Sandoval, Leonard		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 27 degrees with a High of 39 degrees. Mostly cloudy with a 20 percent chance of precipitation. Wind 10 to 15 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

Operations at the asphalt batch plant are still suspended until the end of February and early March depending on the weather.

33. Date inspection completed.

02/08/2024

34. Time inspection completed.

From 8:35 a.m. to 9:05 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

LEONARD SANDOVAL (Affiliate)

Digitally signed by LEONARD SANDOVAL (Affiliate)
Date: 2024.02.08 10:21:07 -07'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.02.22 09:03:32 -07'00'

40. Date: 2/22/2024

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	03/04/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	1389
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		
Created by, used for transfer to EDRMS	Sandoval, Leonard		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 35 degrees with a High of 54 degrees. Clear and Sunny. Wind 5 to 10 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

On 2/28/2024 housekeeping was performed at the far east end of Sigma Mesa and included the area in and around the new Asphalt Batch Plant.

33. Date inspection completed.

03/04/2024

34. Time inspection completed.

From 9:10 a.m to 9:30 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

Leonard F. Sandvoval

Digitally signed by Leonard F. Sandvoval
Date: 2024.03.21 12:09:19 -06'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.03.21 07:57:38 -06'00'

40. Date: 3/21/2024

Go To Top

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	04/03/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	1504
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		
Created by, used for transfer to EDRMS	Sandoval, Leonard		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 30 degrees with a High of 42 degrees. Cloudy with 100 percent chance of precipitation. Wind less than 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

1 to 3 inches of wet snow throughout the facility.

33. Date inspection completed.

04/01/2024

34. Time inspection completed.

From 9:40 a.m. to 10:05 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

Leonard F. Sandvoval

Digitally signed by Leonard F. Sandvoval
Date: 2024.04.03 07:54:49 -06'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.04.05 15:16:17 -06'00'

40. Date: 4/5/2024

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	05/09/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	2750
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		
Created by, used for transfer to EDRMS	Sandoval, Leonard		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 41 degrees with a High of 68 degrees. Clear and Sunny. Wind 5 to 10 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

05/07/2024

34. Time inspection completed.

From 8:20 a.m. to 8:45 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

Leonard F. Sandvoval

Digitally signed by Leonard F. Sandvoval
Date: 2024.05.09 07:55:07 -06'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.05.13 09:06:08 -06'00'

40. Date: 5/13/2024

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Documents

View Documents for this Questionnaire

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	06/10/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	2917
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 53 degrees with a High of 65 degrees. Cloudy with a 90% Chance of rain. Wind at 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

Light drizzle during the inspection.

33. Date inspection completed.

06/10/2024

34. Time inspection completed.

From 8:50 a.m. to 9:15 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

Leonard F. Sandvoval

Digitally signed by Leonard F. Sandvoval
Date: 2024.06.14 11:43:10 -06'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.06.17 09:46:39 -06'00'

40. Date: 6-17-2024

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Documents

View Documents for this Questionnaire

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/15/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	3081
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 66 degrees with a High of 91 degrees. Clear and Sunny. 30% chance of rain. Wind less than 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

There was 8 to 10 inches of storm water runoff in the retention pond. The area south of control room 60-0234 was recently paved.

33. Date inspection completed.

07/15/2024

34. Time inspection completed.

From 8:45 a.m. to 9:10 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

Leonard F. Sandvoval

Digitally signed by Leonard F. Sandvoval
Date: 2024.07.22 08:08:23 -06'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.07.29 15:04:04 -06'00'

40. Date: 7-29-2024

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Documents

View Documents for this Questionnaire

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	08/12/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	3421
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 62 degrees with a High of 81 degrees. Partly cloudy with a 50 percent chance of rain. Wind less than 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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.

- No

Within the MSGP boundary of the TA-60 Asphalt Batch Plant there's wind blown trash in and around the trash only bin. At the Southwest corner of the facility there's pieces of metal, torn gravel bags, pieces of wood, and chunks of concrete with rebar that are a housekeeping issue.

28. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

29. Sector D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

08/12/2024

34. Time inspection completed.

From 8:42 a.m. to 9:15 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

Leonard F. Sandvoval

Digitally signed by Leonard F. Sandvoval
Date: 2024.08.22 11:10:32 -06'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.08.23 15:14:47 -06'00'

40. Date: 8-23-2024

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MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	09/04/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	3556
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 56 degrees with a High of 84 degrees. Clear and Sunny with a 30 percent chance of rain. Wind less than 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

Cruz Armendariz and Shane Wagoner LOG-SUP for Roads and Grounds were present during the inspection to walkdown the storm water controls that need to be replaced this quarter as part of the required routine maintenance.

33. Date inspection completed.

09/04/2024

34. Time inspection completed.

From 8:30 a.m. to 9:15 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

Leonard F. Sandvoval

Digitally signed by Leonard F. Sandvoval
Date: 2024.09.09 07:40:16 -06'00'

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: Davide E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.09.20 14:26:30 -06'00'

40. Date: 9-20-24

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	10/14/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	4294
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 48 degrees with a High of 74 degrees. Fair to Partly Cloudy. Wind less than 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140014
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

During the annual SPCC inspection at the Asphalt Plant with Eduardo Lopez EPC-CP on 10/3/2024 the transfer pump within the concrete secondary containment had a recent small leak and the packing seal had been tightened to help stop the leak by the onsite operators.

33. Date inspection completed.

10/14/2024

34. Time inspection completed.

From 8:30 a.m. to 9:00 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

Leonard F. Sandvoval

Digitally signed by Leonard F. Sandvoval
Date: 2024.10.18 11:20:55 -06'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.10.21 07:30:53 -06'00'

40. Date: 10-21-2024

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Documents

View Documents for this Questionnaire

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	11/04/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	4742
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 33 degrees with a High of 38 degrees. Cloudy with 100 percent chance of Rain and Snow. Wind 10 to 15 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140014
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

During the inspection there was 2 to 3 inches of wet snow throughout the facility. There was no visible oily sheen on any of the standing water throughout the facility.

33. Date inspection completed.

11/04/2024

34. Time inspection completed.

From 9:15 a.m. to 9:35 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

Leonard F. Sandvoval

Digitally signed by Leonard F. Sandvoval
Date: 2024.11.06 08:37:21 -07'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.11.13 07:26:32 -07'00'

40. Date: 11-13-2024

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MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	12/11/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	5684
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2024 TA60 ABP
Created By	Sandoval, Leonard (114326)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 15 degrees with a High of 41 degrees. Clear and Sunny. Wind less than 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140014
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

Jacob Knight and Kiri Baca EPC-CP were present during the inspection.

33. Date inspection completed.

12/11/2024

34. Time inspection completed.

From 1:00 p.m. to 1:30 p.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

Leonard F. Sandvoval

Digitally signed by Leonard F. Sandvoval
Date: 2024.12.17 14:07:15 -07'00'

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: David E. Trujillo UI-OPS

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2024.12.17 15:22:01 -07'00'

40. Date: 12-17-2024

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Documents

Description	Document Type	Document Date

View Documents for this Questionnaire

Los Alamos National Laboratory

Work Order MSGP-RI-66348

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: 11/2/2022
Project: Routine Facility Inspections January 2023 (P-MSGP-RI-5620)
Reason: 2023 January Routine Facility Inspections

Target: 1/31/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant
Contact:
Phone:

1/9/2023 Temp. 29°F - High of 45°F Clear to Partly Cloudy Wind - 5 mph 10:00 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
210	**Rock Berm [6000103120010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
220	**Rock Berm [6000103120013]** 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).				

240	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
260	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
280	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
300	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
310	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
320	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
340	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
350	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
360	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
380	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
390	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
Non-Compliance					
410	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
Additional Control Measures					
430	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
Leonard Sandoval	1/5/2023 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval 1/9/2023 10:30 a.m.

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: DAVID E. TRUJILLO OPS-MGR. 2

Signature: D E. T Date: 1-11-2023

Los Alamos National Laboratory

Work Order MSGP-RI-66415

MSGP Routine Inspection
Printed 1/30/2023 - 2:51 PM

Maintenance Details

Requested: 1/30/2023 2:37:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 12/20/2022
Project: Routine Facility Inspections February 2023 (P-MSGP-RI-5626)
Reason: 2023 February Routine Facility Inspections

Target: 2/28/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

2/2/2023 Temp. 29°F L | High of 42°F Clear/Sunny Wind - 5mph 10:00 a.m.

Contact:
Phone:

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
210	**Rock Berm [6000103120010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
220	**Rock Berm [6000103120013]** 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).

240	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
260	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
280	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
300	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
310	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
320	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
340	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
350	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
360	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
380	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
390	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

410	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

430	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
Leonard Sandoval	1/30/2023 / 1				

Labor Report

Completed: _____

Report: Several inches of frozen snow throughout the facility.

Leonard F. Sandoval 2/2/2023 10:20 a.m.

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: Phillip Ulibarri Ops. Manager

Signature: _____ Date: 02/10/23

Los Alamos National Laboratory

Work Order MSGP-RI-66476
MSGP Routine Inspection
Printed 2/27/2023 - 1:20 PM

Maintenance Details

Requested: 2/27/2023 1:09:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 2/2/2023
Project: Routine Facility Inspections March 2023 (P-MSGP-RI-5632)
Reason: 2023 March Routine Facility Inspections

Target: 3/31/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant
Contact:
Phone:

3/1/2023 Temp 29°F | High of 44°F Fair to Partly Cloudy 36% Chance of precipitation 10:25 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
210	**Rock Berm [6000103120010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
220	**Rock Berm [6000103120013]** 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).

240	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
260	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
280	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
300	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
310	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
320	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
340	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
350	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
360	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
380	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
390	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
410	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
430	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
Leonard Sandoval	2/27/2023 / 1				

Labor Report

Completed: _____

Report:

On 2/27/2023 work on Base Course berm (600010302 0004) was being performed to include laser leveling the berm & adding more material to build up the berm to serve as Secondary Containment for the Above Ground Storage tank for SPCC.

Leonard F. Sandoval 3/1/2023 10:45 a.m.

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: DAVID TRUJILLO OPS MGR

Signature: [signature] Date: 3-22-23

Los Alamos National Laboratory

Work Order MSGP-RI-66548
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: 3/1/2023
Project: Routine Facility Inspections April 2023 (P-MSGP-RI-5639)
Reason: 2023 April Routine Facility Inspections

Target: 4/30/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant
Contact:
Phone:

4/5/2023 Temp. 21°F Low of 43°F
Clear/Sunny
Wind - Less than 5mph
2:10 p.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
210	**Rock Berm [6000103120010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
220	**Rock Berm [6000103120013]** 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).					

240	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
250	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
260	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
270	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
280	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
290	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
300	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
310	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
320	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
330	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
340	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
350	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
360	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
370	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
380	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
390	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
Non-Compliance				
410	Free of incidents of observed non-compliance not already identified above? If "No" describe.	☐	☐	☑
Additional Control Measures				
430	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
Leonard Sandoval	4/3/2023 / 1				

Labor Report

Completed: _____

Report:

During the inspection, work was being performed on a open trench for the natural gas line to the new Asphalt Batch Plant.

Leonard F. Sandoval — Signature / Name
4/5/2023 2:30 p.m. — 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: DAVID TRUJILLO VI - OPS. MGR.

Signature: [signature] Date: 4-27-23

Los Alamos National Laboratory

Work Order MSGP-RI-66648
MSGP Routine Inspection
Printed 5/16/2023 - 4:14 PM

Maintenance Details

Requested: 5/16/2023 9:53:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 4/5/2023
Project: Routine Facility Inspections May 2023 (P-MSGP-RI-5647)
Reason: 2023 May Routine Facility Inspections

Target: 5/1/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

5/8/2023 / Temp. 46°F / High of 74°F
Clear / Sunny
Wind - Less than 5mph
8:10 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Riprap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Riprap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
210	**Rock Berm [6000103120010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
220	**Rock Berm [6000103120013]** 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).

240	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
260	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
280	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
300	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
310	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
320	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
340	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
350	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
360	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
380	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
390	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

410	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

430	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
Leonard Sandoval	5/16/2023 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval 5/8/2023 8:30 a.m.

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: DAVID TRUJILLO VI - OPS. MGR.

Signature: D Trujillo Date: 5-17-23

Los Alamos National Laboratory

Work Order MSGP-66725
MSGP Monitoring Stations
Printed 6/6/2023 - 2:03 PM

Maintenance Details

Requested: 6/6/2023 1:49:57 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 5/8/2023
Project: Routine Facility Inspections June 2023 (P-MSGP-RI-5654)
Reason: 2023 June Routine Facility Inspections

Target: 6/30/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

6/12/2023 Temp. 51°F & High of 73°F
Sunny & Scattered Cloud Cover
Wind - 5mph
9:55 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Riprap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Riprap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
210	**Rock Berm [6000103120010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
220	**Rock Berm [6000103120013]** 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).

240	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
260	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
280	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
300	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
310	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
320	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
340	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe		☐	☐	☑
350	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
360	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
380	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
390	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

410	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

430	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
Leonard Sandoval	6/6/2023 / 1				

Labor Report

Completed:

Report:

Leonard F. Sandoval 6/12/2023 10:20 a.m.

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: DAVID TRUJILLO VI- OPS. MANG.

Signature: D. Trujillo Date: 6-30-2023

6/1/2023 - 11,000 gallons of petroleum product were offloaded into the Above Ground Storage Tank.

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/10/2023	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	441
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2023 TA60 ABP
Created By	Sandoval, Leonard (114326)		
Created by, used for transfer to EDRMS			

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temp. 70 degrees with a High of 88 degrees. Cloudy with a 20% chance of rain. Light drizzle during the inspection. Wind less than 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

33. Date inspection completed.

07/10/2023

34. Time inspection completed.

9:10 a.m. to 9:30 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

LEONARD SANDOVAL (Affiliate) Digitally signed by LEONARD SANDOVAL (Affiliate) Date: 2023.08.10 12:43:44 -06'00'

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: David E. Trujillo UI-OPS

39. Signature: DAVID TRUJILLO (Affiliate) Digitally signed by DAVID TRUJILLO (Affiliate) Date: 2023.08.10 13:09:00 -06'00'

40. Date: 8/10/2023

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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 *	08/08/2023	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	514
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2023 TA60 ABP
Created By	Sandoval, Leonard (114326)		
Created by, used for transfer to EDRMS	Sandoval, Leonard		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 56 degrees with a high of 80 degrees. Clear and Sunny with a 40 percent chance of rain. Wind 5 to 10 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

33. Date inspection completed.

08/08/2023

34. Time inspection completed.

From 8:15 a.m. to 8:35 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

LEONARD SANDOVAL (Affiliate) Digitally signed by LEONARD SANDOVAL (Affiliate) Date: 2023.08.22 08:50:35 -06'00'

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: David E. Trujillo UI OPS

39. Signature: DAVID TRUJILLO (Affiliate) Digitally signed by DAVID TRUJILLO (Affiliate) Date: 2023.08.28 14:20:55 -06'00'

40. Date: 8/28/23

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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 *	09/26/2023	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	685
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2023 TA60 ABP
Created By	Sandoval, Leonard (114326)		
Created by, used for transfer to EDRMS	Sandoval, Leonard		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 55 degrees with a high of 86 degrees. Clear and Sunny. Wind less than 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

33. Date inspection completed.

09/08/2023

34. Time inspection completed.

From 9:20 a.m. to 9:40 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

LEONARD SANDOVAL (Affiliate)

Digitally signed by LEONARD SANDOVAL (Affiliate)
Date: 2023.09.26 11:11:33 -06'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2023.09.28 15:57:48 -06'00'

40. Date:

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MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	10/06/2023	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	727
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2023 TA60 ABP
Created By	Sandoval, Leonard (114326)		
Created by, used for transfer to EDRMS	Sandoval, Leonard		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 44 degrees with a high of 69 degrees. Clear and Sunny. Wind less than 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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:

The plant is currently not operating. A second stack test is scheduled for the week of October 9th.

33. Date inspection completed.

10/05/2023

34. Time inspection completed.

From 8:30 a.m. to 8:55 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

LEONARD SANDOVAL (Affiliate)

Digitally signed by LEONARD SANDOVAL (Affiliate)
Date: 2023.10.06 13:11:58 -06'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2023.10.12 08:57:42 -06'00'

40. Date: 10/12/23

Go To Top

Documents

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	11/06/2023	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	821
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2023 TA60 ABP
Created By	Sandoval, Leonard (114326)		
Created by, used for transfer to EDRMS	Sandoval, Leonard		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 56 degrees with a high of 69 degrees. Clear and Sunny. Wind 10 to 15 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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 D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

11/06/2023

34. Time inspection completed.

From 9:20 a.m. to 9:45 a.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

LEONARD SANDOVAL (Affiliate)

Digitally signed by LEONARD SANDOVAL (Affiliate)
Date: 2023.11.07 09:15:01 -07'00'

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: David E. Trujillo UI-OPS

39. Signature: DAVID TRUJILLO (Affiliate)

Digitally signed by DAVID TRUJILLO (Affiliate)
Date: 2023.11.15 07:41:31 -07'00'

40. Date: 11/15/23

Go To Top

Documents

View Documents for this Questionnaire

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	01/02/2024	**Questionnaire** *	MSGP RFI TA-60 Asphalt Batch Plant (MSGP FAC TA-60 ABP)
Source	Environment Inspection/Survey Program	**QRHId**	1014
Location	TA-60 Asphalt Batch Plant(MSGP-0005)	**Source Id**	MSGP 2023 TA60 ABP
Created By	Sandoval, Leonard (114326)		
Created by, used for transfer to EDRMS	Sandoval, Leonard		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Temperature 47 degrees. Clear and Sunny. Wind less than 5 mph.

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 043: Is the outfall free of evidence of erosion; free of evidence of polutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 043: 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.)

- Base Course Berm 6000103020004
- Base Course Berm 6000103020006
- Coir Log 6000103140011
- Detention Pond 6000111020001
- Earthen Berm 6000103010009
- Riprap 6000104060005
- Riprap 6000104060012
- Rock Berm 6000103120010
- Rock Berm 6000103120013

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.

- Yes

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.

- Yes

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.

- N/A

22. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

- N/A

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.

- No

At the TA-60 Asphalt Batch Plant, oil was leaking from a valve in the front of the 35,000 gallon oil tank onto the ground that was entered into the MSGP tracking database as CAR # 2340.

29. Sector D: Asphalt manufacturing or asphalt product manufacturing: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

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.

12/19/2023

34. Time inspection completed.

From 3:00 p.m. to 4:00 p.m.

35. Select inspector name.

Sandoval, Leonard

36. Signature/Name
I confirm the information as recorded is true, accurate and complete.

LEONARD SANDOVAL
(Affiliate)

Digitally signed by LEONARD SANDOVAL
(Affiliate)
Date: 2024.01.02 12:21:39 -07'00'

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: David E. Trujillo UI-OPS Manager

39. Signature: DAVID TRUJILLO
(Affiliate)

Digitally signed by DAVID TRUJILLO
(Affiliate)
Date: 2024.01.08 10:22:13 -07'00'

40. Date: 1/8/2024

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Los Alamos National Laboratory

Work Order MSGP-RI-65505

MSGP Routine Inspection
Printed 12/17/2021 - 1:15 PM

Maintenance Details

Requested: 12/17/2021 1:05:31 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 11/9/2021
Project: Routine Facility Inspections January 2022 (P-MSGP-RI-5544)
Reason: 2022 January Inspections

Target: 1/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

1/4/2022 Temp. 21°F & High of 39°F
Fair to Partly Cloudy
Wind - Less than 5mph
9:58 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).				
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and		☐	☐	☑

	operating)? If "No" describe.				
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
410	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
Leonard Sandoval	1/1/2022 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval 1/4/2022 10:15 a.m. _____ _____

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 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: Phillip Ulbarr.

Signature: Phillip UC Date: 02/01/22

Los Alamos National Laboratory

Work Order MSGP-RI-65513
MSGP Routine Inspection
Printed 1/13/2022 - 3:08 PM

Maintenance Details

Requested: 12/17/2021 1:12:04 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 12/20/2021
Project: Routine Facility Inspections February 2022 (P-MSGP-RI-5545)
Reason: 2022 February Inspections

Target: 2/28/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
~~TA-60~~ Asphalt Batch Plant

Contact:
Phone:

2/8/2022 Temp. 26°F Low High 42°F
Fair to Partly Cloudy
8:55 a.m.
Wind- Less than 5 mph

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).				
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and		☐	☐	☑

	operating)? If "No" describe.				
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
Non-Compliance					
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.				☑
Additional Control Measures					
410	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
Leonard Sandoval	2/1/2022 / 1				

Labor Report

Completed: _____

Report: Mud being tracked in/out of the Cleanfill yard and entered into the MSGP tracking database as CAR# 2067.

Leonard F. Sandoval 2/8/2022 9:10 a.m.

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 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: DAVID E. TRUJILLO II - OPS MANAGER

Signature: [signature] Date: 2-28-22

Facility covered w/ several inches of frozen snow.

Los Alamos National Laboratory

Work Order MSGP-65677
MSGP Monitoring Stations
Printed 3/14/2022 - 5:26 PM

Maintenance Details

Requested: 3/14/2022 5:23:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 2/3/2022
Project: Routine Facility Inspections March 2022 (P-MSGP-RI-5560)
Reason: 2022 March Inspections

Target: 3/31/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

3/1/2022 Temp. 33°F & High of 58°F
Clear/Sunny
Wind - 5mph
9:16 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).				
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and		☐	☐	☑

	operating)? If "No" describe.				
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. Refer to Labor Report			☑	
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
Non-Compliance					
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.				☑
Additional Control Measures					
410	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
Leonard Sandoval	2/25/2022 / 1				

Labor Report

Completed: _____

Report: Five foot sections of rebar & big chunks/slabs of asphalt in a pile that are a housekeeping entered into the MSGP tracking as CAR # 2077.

Signature / Name	Date	Signature / Name	Date
Leonard F. Sandoval	3/1/2022 9:30a.m.		

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: DAVID E. TRUJILLO VI-OPS-MANAGER

Signature: D E. Trujillo Date: 3-24-22

Los Alamos National Laboratory

Work Order MSGP-RI-65766
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: 3/1/2022
Project: Routine Facility Inspections April 2022 (P-MSGP-RI-5567)
Reason: 2022 April Inspections

Target: 4/28/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant
Contact:
Phone:

4/6/2022 Temp. 40°F Low of 55°F Clear/Sunny Wind - 5 mph 8:55 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).				
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☑	
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☑	
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☑	
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☑	
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.			☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑
Non-Compliance				
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.			☑
Additional Control Measures				
410	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: _____

Report:

Leonard E. Sandoval — 4/6/2022 9:15 a.m.

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: DAVID E. TRUJILLO OPS. MANAGER – U1

Signature: D E Trujillo Date: 4-28-22

Los Alamos National Laboratory

Work Order MSGP-65828

MSGP Monitoring Stations
Printed 5/2/2022 - 9:41 AM

Maintenance Details

Requested: 5/2/2022 9:14:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 3/1/2022
Project: Routine Facility Inspections May 2022 (P-MSGP-RI-5575)
Reason: 2022 May Inspections

Target: 5/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

5/3/2022
Temp. 45°F-4 High of 72°F
Clear/Sunny
Smoke Haze in the air from the Cerro Pelado fire
Wind - 5 mph
8:22 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).				
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
410	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
Leonard Sandoval	5/2/2022 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval — Signature / Name

5/3/2022 8:40 a.m. — 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: DAVID E. TRUJILLO UI - OPS MANAGER

Signature: D E Trujillo Date: 5-25-2022

Los Alamos National Laboratory

Work Order MSGP-RI-65925
MSGP Routine Inspection
Printed 5/31/2022 - 4:37 PM

Maintenance Details

Requested: 5/31/2022 4:31:55 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 4/6/2022
Project: Routine Facility Inspections June 2022 (P-MSGP-RI-5580)
Reason: 2022 June Inspections

Target: 6/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

6/1/2022 Temp. 55°F & High of 75°F
Fair to Partly Cloudy & Smokey Haze
Wind - 5 to 10 mph
1:05 p.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).					
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and		☐	☐	☑

	operating)? If "No" describe.				
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
Non-Compliance					
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.				☑
Additional Control Measures					
410	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
Leonard Sandoval	5/31/2022 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval 6/1/2022 1:25 p.m.

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: DAVID E. TRUJILLO UI - OPS. MANAGER

Signature: D E. T Date: 7-1-22

Los Alamos National Laboratory

Work Order MSGP-RI-66024
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: 6/1/2022
Project: Routine Facility Inspections July 2022 (P-MSGP-RI-5588)
Reason: 2022 July Inspections

Target: 7/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant
Contact:
Phone:

7/5/2022 Temp. 70°F L/ High of 78°F
Fair to Partly Cloudy
45% Chance of rain - Hot & Humid
Wind - Less than 5 mph
12:15 p.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).				
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and		☐	☐	☑

	operating)? If "No" describe.				
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
Non-Compliance					
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.				☑
Additional Control Measures					
410	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
Leonard Sandoval	6/30/2022 / 1				

Labor Report

Completed:

Report: -Note: The water level at the sediment retention pond has receeded several feet below the flume to the MSCP Sampler.

Leonard F. Sandoval 7/5/2022 12:33 p.m.

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: DAVID E. TRUJILLO OPS. MGR.

Signature: D E. T.. Date: 7-27-22

Los Alamos National Laboratory

Work Order MSGP-66110
MSGP Monitoring Stations
Printed 7/29/2022 - 2:48 PM

Maintenance Details

Requested: 7/29/2022 2:43:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 6/1/2022
Project: Routine Facility Inspections August 2022 (P-MSGP-RI-5597)
Reason: 2022 August Inspections

Target: 8/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

8/1/2022 Temp. 59°F L / High of 79°F
Sunny & Scattered Cloud Cover
40% Chance of rain
Wind - Less than 5 mph
9:26 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).					
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
410	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
Leonard Sandoval	7/29/2022 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval — Signature / Name

8/1/2022 9:45a.m. — 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: DAVID E. TRUJILLO III – OPS. MGR.

Signature: D E Trujillo Date: 8-26-22

X Notes: The sediment retention pond is full of Storm water runoff. Milling of the paved roadway from the East end of Enewetak Rd to Diamond Drive is scheduled to start today. The asphalt millings are scheduled to be delivered to the TA-61 Millings staging area.

Los Alamos National Laboratory

Work Order MSGP-RI-66125

MSGP Routine Inspection
Printed 9/13/2022 - 4:33 PM

Maintenance Details

Requested: 9/13/2022 3:45:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 8/1/2022
Project: Routine Facility Inspections September 2022 (P-MSGP-RI-5599)
Reason: 2022 September Inspections

Target: 9/30/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant
Contact:
Phone:

9/6/2022 Temp. 58°F / High of 84°F
Clear / Sunny
Wind - Less than 5mph
9:22 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
210	**Rock Berm [6000103120010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
220	**Rock Berm [6000103120013]** 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).

240	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
260	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
280	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
300	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
310	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
320	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
340	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
350	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
360	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
370	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
380	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
390	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

410	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

430	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: _____

Report: _____

Leonard F. Sandoval 5/6/2022 9:40 a.m. _____

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: DAVID E. TRUJILLO 01-OPS MGR.

Signature: D E. T. Date: 9-20-22

* Note: Sediment Retention pond is dry.

Los Alamos National Laboratory

Work Order MSGP-RI-66162
MSGP Routine Inspection
Printed 9/29/2022 - 4:00 PM

Maintenance Details

Requested: 9/29/2022 3:52:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 8/1/2022
Project: Routine Facility Inspections October 2022 (P-MSGP-RI-5602)
Reason: MSGP Routine Facility Inspection

Target: 10/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

10/3/2022 Temp. 51°F L | High of 68°F
Cloudy L 70% Chance of rain / Light drizzle
Wind - Less than 5mph
9:10 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
210	**Rock Berm [6000103120010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
220	**Rock Berm [6000103120013]** 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).				
240	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and		☐	☐	☑

	operating)? If "No" describe.				
250	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
260	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
270	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
280	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
290	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
300	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
310	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
320	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
330	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
340	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
350	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
360	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.			☑	
370	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
380	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
390	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
Non-Compliance					
410	Free of incidents of observed non-compliance not already identified above? If "No" describe.				☑
Additional Control Measures					
430	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
Leonard Sandoval	9/29/2022 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval 10/3/2022 9:27 a.m.

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: DAVID TRUJILLO UI - OPS. MGR.

Signature: D E. Trujillo Date: 10-21-22

Los Alamos National Laboratory

Work Order MSGP-RI-66214
MSGP Routine Inspection
Printed 10/31/2022 - 4:33 PM

Maintenance Details

Requested: 10/28/2022 2:04:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 10/3/2022
Project: Routine Facility Inspections November 2022 (P-MSGP-RI-5607)
Reason: 2022 November Inspection

Target: 11/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

11/2/2022 Temp. 48°F L / High of 58°F
Fair to Partly Cloudy
Wind - 10 to 15 mph
2:25 p.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
210	**Rock Berm [6000103120010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
220	**Rock Berm [6000103120013]** 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).

240	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
260	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
280	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
300	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
310	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
320	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
340	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
350	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
360	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
380	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. Refer to Labor Report		☑	☐	☐
390	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

410	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

430	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
Leonard Sandoval	11/1/2022 / 14				

Labor Report

Completed: _____

Report:

Within the construction site of the new ABP there's a trash only bin of plastic & trash on the ground. At the E. end of the site there's a pile of old T posts, old metal signs, a section of broken cable, and some electrical wiring, entered into the MSGP tracking database as CA#12256.

Leonard F. Sandoval 11/2/2022 2:40 p.m.

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: DAVID TRUJILLO U1 - OPS. MGR.

Signature: D Trujillo Date: 11-18-22

A water truck was spraying water within the CGP site for dust suppression during the inspection.

Los Alamos National Laboratory

Work Order MSGP-RI-66282
MSGP Routine Inspection
Printed 12/1/2022 - 10:18 AM

Maintenance Details

Requested: 11/28/2022 12:52:34 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 11/2/2022
Project: Routine Facility Inspections December 2022 (P-MSGP-RI-5613)
Reason: 2022 December Inspection

Target: 12/1/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant
Contact:
Phone:

12/20/2022 Temp. 19°F / High of 41°F
Clear/Sunny
Wind 5-10 mph
11:35 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
210	**Rock Berm [6000103120010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
220	**Rock Berm [6000103120013]** 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).

240	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
260	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
280	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
300	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
310	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
320	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
340	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
350	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
360	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
380	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	Refer to Labor Report	☑	☐	☐
390	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

410	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

430	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
Leonard Sandoval	11/28/2022 / 1				

Labor Report

Completed: _____

Report:

At the East end of the ABP Unit's some electrical wires, smashed water bottles, pieces of plywood & at the center of the right some metal pipes that had a housekeeping issue & entered into the MSGP tracking database as CA# 2204.

Leonard F. Sandoval 12/20/2022 12:30 pm.

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: Phillip Ubbarri Operations Mgr.

Signature: [signature] Date: 1/4/23

Holly Wheeler EPC-CP was present during the annual MSGP inspection.

Los Alamos National Laboratory

Work Order MSGP-RI-64986
MSGP Routine Inspection
Printed 6/4/2021 - 12:45 PM

Maintenance Details

Requested: 6/4/2021 12:38:53 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 4/5/2021
Project: Routine Facility Inspections June 2021 (P-MSGP-RI-5499)
Reason: 2021 June Inspections

Target: 6/30/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

6/7/2021 Temp. 61°F & High of 83°F
Sunny & Scattered Clouds & Smokey Haze from forest fire near Cuba, N.M.
Wind - Less than 5 mph
8:00 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).				
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective,		☐	☐	☑

	and operating)? If "No" describe.				
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
410	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
Leonard Sandoval	6/4/2021 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval — 6/7/2021 8:25a.m.

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 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: Robert M - Ortiz VI - OPS Manager

Signature: 088524 Date: 7/6/2021

Los Alamos National Laboratory

Work Order MSGP-RI-65013
MSGP Routine Inspection
Printed 7/1/2021 - 5:46 PM

Maintenance Details

Requested: 7/1/2021 5:37:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 6/16/2021
Project: Routine Facility Inspections July 2021 (P-MSGP-RI-5500)
Reason: 2021 July Inspections

Target: 7/31/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

7/12/2021 Temp. 58°F High of 81°F
Fair to Partly Cloudy
Smoke/Haze
Wind - Less than 5mph
8:03a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).					
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective,		☐	☐	☑

	and operating)? If "No" describe.				
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
Non-Compliance					
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
Additional Control Measures					
410	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
Leonard Sandoval	7/1/2021 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval — 7/12/2021 8:26 am.

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 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: Phillip Ubbarri UI-OPS-MGR GL

Signature: [signature] Date: 7/28/21

Los Alamos National Laboratory

Work Order MSGP-RI-65115
MSGP Routine Inspection
Printed 8/2/2021 - 9:47 AM

Maintenance Details

Requested: 8/2/2021 9:41:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 6/7/2021
Project: Routine Facility Inspections August 2021 (P-MSGP-RI-5510)
Reason: 2021 August Inspections

Target: 8/31/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

8/2/2021 Temp. 57°F High of 71°F Cloudy & 76% Chance of Rain Wind - Less than 10 mph 8:40a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).				
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and		☐	☐	☑

	operating)? If "No" describe.				
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☑		
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☑		
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☑		
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☑		
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☑		
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.				☑
Non-Compliance					
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.				☑
Additional Control Measures					
410	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
Knight, Jacob	8/2/2021 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval 8/2/2021 9:05 a.m.

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 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: Phillip Ulibarri UI Operations Mgr.

Signature: _____ Date: 8/27/21

Los Alamos National Laboratory

Work Order MSGP-RI-65144
MSGP Routine Inspection
Printed 8/30/2021 - 5:25 PM

Maintenance Details

Requested: 8/30/2021 5:22:13 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 8/2/2021
Project: Routine Facility Inspections September 2021 (P-MSGP-RI-5516)
Reason: MSGP Routine Facility Inspection

Target: 9/30/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

9/1/2021 Temp. 59°F L/ High of 69°F
Fair to Partly Cloudy
40% Chance of rain
Wind - Less than 5mph
7:13a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).					
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
	Non-Compliance			
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.	☐	☐	☑
	Additional Control Measures			
410	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
Leonard Sandoval	9/1/2021 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval — 9/1/2021 7:35 a.m. — 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 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: Phillip Ukbere UI - OPS - MGR

Signature: [signature] Date: 9/30/21

Potholing was being performed to locate the underground natural gas lines & other utilities in advance of the Batch Plant being dis-mantled.

Los Alamos National Laboratory

Work Order MSGP-65273

MSGP Monitoring Stations
Printed 10/4/2021 - 12:17 PM

Maintenance Details

Requested: 10/4/2021 11:35:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 8/2/2021
Project: Routine Facility Inspections October 2021 (P-MSGP-RI-5524)
Reason: 2021 October Inspections

Target: 10/31/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

10/3/2021 Temp. 30°F L / High of 52°F
Fair to Partly Cloudy
Wind - Less than 5 mph
8:27 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).				
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
	Non-Compliance			
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.	☐	☐	☑
	Additional Control Measures			
410	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
Leonard Sandoval	10/4/2021 / 1				

Labor Report

Completed: _____

Report: The TA-60 Asphalt Batch Plant was dismantled in September & staged East of the Clean Fill yard.

Leonard F. Sandoval — Signature / Name
10/3/2021 8:48 a.m. — 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: Philip Ulibarri UI-OPS-MGR

Signature: _____ Date: 10/28/21

Los Alamos National Laboratory

Work Order MSGP-RI-65341
MSGP Routine Inspection
Printed 11/1/2021 - 12:03 PM

Maintenance Details

Requested: 11/1/2021 11:37:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 9/1/2021
Project: Routine Facility Inspections November 2021 (P-MSGP-RI-5530)
Reason: 2021 November Inspections

Target: 11/28/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

11/9/2021 Temp. 45°F & High of 61°F
Fair to Partly Cloudy
Wind - Less than 5mph
9:17 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).				
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and		☐	☐	☑

	operating)? If "No" describe.				
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
410	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
Leonard Sandoval	11/1/2021 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval 11/9/2021 2:38 a.m.

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 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: Phillip Ulibarri Operation Mgr.

Signature: _____ Date: 12-01-21

Los Alamos National Laboratory

Work Order MSGP-RI-65452
MSGP Routine Inspection
Printed 12/1/2021 - 12:08 PM

Maintenance Details

Requested: 12/1/2021 12:04:22 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 10/3/2021
Project: Routine Facility Inspections December 2021 (P-MSGP-RI-5538)
Reason: 2021 December Inspections

Target: 12/31/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant

Contact:
Phone:

12/20/2021 Temp. 27°F L/High of 46°F
Clear/Sunny
Wind - Less than 5mph
9:00 a.m.

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 [043]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [043]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [043]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [043]** 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	**Rip Rap [6000104060005]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
150	**Rip Rap [6000104060012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
160	**Detention Pond [6000111020001]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
170	**Earthen Berm [6000103010009]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
180	**Base Course Berm [6000103020004]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
190	**Base Course Berm [6000103020006]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
200	**Coir Log [6000103140011]** 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).				
220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
230	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
390	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
410	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
Leonard Sandoval	12/1/2021 / 1				

Labor Report

Completed: _____

Report:

Leonard F. Sandoval — 12/20/2021 9:20 a.m. — 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 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: Phillip Ubarri UE-OPS-M&R

Signature: _____ Date: 12/21/21

Holly Wheeler of EPC-CP was present during the inspection.

ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS

NMR050013 MSGP 2021
TA-60 Asphalt Batch Plant

Quarterly Visual Assessment Form,
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 11:16:57 -07'00'

Manager Signature

Facility Name	Sampling Station	Work Order #
TA-60 Asphalt Batch Plant	MSGP04301	MSGP-66064
TA-60 Asphalt Batch Plant	MSGP04301	MSGP-66100

Los Alamos National Laboratory

Work Order MSGP-66064

MSGP Monitoring Stations
Printed 10/4/2022 - 11:34 AM

Maintenance Details

Requested: 7/5/2022 5:41:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/5/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)
Reason: MSGP Quarterly Visual Assessment

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant
Monitored Outfall (043)
MSGP04301

Contact:
Phone:

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.	Jul-Sep	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	07/04/22 12:36	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	07/04/22 12:36	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	07/05/22 13:00	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain Total 0.17"	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe. **Comments: Brown**		☒	☐	☐
120	Is sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		☐	☐	☑
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). **Comments: slightly cloudy**		☒	☐	☐
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		☐	☐	☑
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).		☐	☐	☑
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).		☐	☐	☑
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: 7/5/2022 1:00:00 PM

Report: Wayne Sanchez

Signature / Name	Date	Signature / Name	Date
	7/19/2022		

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:

Los Alamos National Laboratory

Work Order MSGP-66100

MSGP Monitoring Stations
Printed 10/4/2022 - 11:34 AM

Maintenance Details

Requested: 7/27/2022 2:54:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/28/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)

Target: 9/30/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant
Monitored Outfall (043)
MSGP04301

Contact:
Phone:

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.	Jul-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 @ 12:38	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/30/22 @ 12:38	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/1/22 @ 9:58	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 1.56	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.	Hint of brown	☒	☐	☐
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		☐	☐	☑
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		☐	☐	☑
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		☐	☐	☑
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).		☐	☐	☑
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).		☐	☐	☑
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: 8/1/2022 9:38:00 AM

Report: Marwin Shendo

Signature / Name	Date	Signature / Name	Date
MSP	8/8/2022		

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-60 Asphalt Batch Plant

Quarterly Visual Assessment Form,
Fourth Quarter, April through June 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 11:14:40 -07'00'

Manager Signature

Facility Name	Sampling Station	Work Order #
TA-60 Asphalt Batch Plant	MSGP04301	MSGP-66016

Los Alamos National Laboratory

Work Order MSGP-66016

MSGP Monitoring Stations
Printed 7/6/2022 - 2:50 PM

Maintenance Details

Requested: 6/30/2022 10:10:00 AM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 6/27/2022
Project: Visual Assessments 4/1/22 (P-MSGP-5585)
Reason: MSGP Quarterly Visual Assessment

Target: 6/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG200.5
TA-60 Asphalt Batch Plant
Monitored Outfall (043)
MSGP04301

Contact:
Phone:

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.	Apr-Jun	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/27/22 1:42	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/27/22 1:42	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/27/22 10:16	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 1.34	☐	☐	☑
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 oderless? 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).	cloudy	☒	☐	☐
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		☐	☐	☑
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).		☐	☐	☑
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).		☐	☐	☑
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: 6/27/2022 10:16:00 AM

Report: Marwin Shendo

Signature / Name	Date	Signature / Name	Date
	7/1/2022		

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:

ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION

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: David E. Trujillo **Title:** UI-OPS Manager

Signature: D E Trujillo **Date:** 1-7-25

MSGP-CAR REPORT

Corrective Action #	**2377**
FOD	UI
MSGP Facility Description	TA-60 Asphalt Batch Plant
Inspection Date	11-MAR-2024 09:50
Date EPC Notified	11-MAR-2024 09:50
Specific Location	NE end of 60-0381 Heating Oil Tank.
Inspector Name	SANDOVAL LEONARD F
Person Identifying Condition	SANDOVAL LEONARD F
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Parameter	NA
Outfall	NA
Problem Description	EPC-CP was notified this morning of a heating oil release at the Asphalt Batch Plant. Approximately 4 gallons of heating oil was released from a pin-hole leak in a braided hose at the NE end of the Oil Tank. Portable secondary containment captured approximately three and a half gallons of product. Additional oil was captured by absorbent pads deployed by the site operators. Less than one-half gallon contacted base course. Roads and Grounds personnel responded to facilitate the cleanup and containerize the waste (oil, absorbents and base course). Replacement of the hose is scheduled for today.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Heating oil release was reported by onsite operators.
Corrective Action Description	EPC-CP was notified this morning of a heating oil release at the Asphalt Batch Plant. Approximately 4 gallons of heating oil was released from a pin-hole leak in a braided hose at the NE end of the Oil Tank. Portable secondary containment captured approximately three and a half gallons of product. Additional oil was captured by absorbent pads deployed by the site operators. Less than one-half gallon contacted base course. Roads and Grounds personnel responded to facilitate the cleanup and containerize the waste (oil, absorbents and base course). The damaged hose was replaced with a new hose today at 2:56 p.m.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	11-MAR-2024 09:50
Corrective Action Complete Date	11-MAR-2024 14:56
Corrective Action Expected Completion Date	24-MAR-2024 17:00
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	

MSGP-CAR REPORT

Corrective Action #	**2393**
FOD	UI
MSGP Facility Description	TA-60 Asphalt Batch Plant
Inspection Date	30-APR-2024 14:00
Date EPC Notified	30-APR-2024 14:00
Specific Location	TA-60 Sigma Mesa along the south perimeter of the new Asphalt Batch Plant and in the paved heavy equipment staging area on the north side of Enewetak Road.
Inspector Name	SANDOVAL LEONARD F
Person Identifying Condition	SANDOVAL LEONARD F
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Parameter	NA
Outfall	NA
Problem Description	EPC-CP was notified of a hydraulic fluid release on Sigma Mesa near the new asphalt batch plant. Approximately 4.5 gallons of hydraulic fluid was released onto base course and paved asphalt around the asphalt batch plant, paved roadway, and parking lot north of the new asphalt batch plant by a Logistics non-potable Bergmann water tanker.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Unplanned release of hydraulic fluid reported to EPC-CP by onsite personnel.
Corrective Action Description	HAZMAT responded and mitigated the hydraulic fluid released on the asphalt by applying absorbents and Micro-Blaze on 4/30/2024. Emergency EX-ID 24X-0340 was submitted in order for Roads and Grounds personnel to begin to mitigate the hydraulic fluid release on the base course on the afternoon of 4/30/2024. Excavated material from the initial clean up effort on 4/30/2024 was staged on tarps. A 20 cubic yard metal bin was delivered to Sigma Mesa on the morning of 5/1/2024 so that Roads and Grounds could containerize the base course from the clean up effort. Final cleanup was completed at 10 a.m.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	30-APR-2024 14:00
Corrective Action Complete Date	01-MAY-2024 10:00
Corrective Action Expected Completion Date	13-MAY-2024 17:00
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2412**
FOD	UI
MSGP Facility Description	TA-60 Asphalt Batch Plant
Inspection Date	12-AUG-2024 09:00
Date EPC Notified	12-AUG-2024 09:00
Specific Location	TA-60 Asphalt Batch Plant at the far east end of Sigma Mesa.
Inspector Name	SANDOVAL LEONARD F
Person Identifying Condition	SANDOVAL LEONARD F
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Housekeeping
Parameter	NA
Outfall	NA
Problem Description	Within the MSGP boundary of the TA-60 Asphalt Batch Plant there's wind blown trash in and around the trash only bin. At the Southwest corner of the facility there's pieces of metal, torn gravel bags, pieces of wood, and chunks of concrete with rebar that are a housekeeping issue.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The windblown trash and torn gravel bags need to be picked up and put into a trash only bin. The pieces of metal can go into a metal for recycle bin and the pieces of wood into a wood only bin. The chunks of concrete were added a shipment of concrete that is scheduled to go offsite to GM Emulsion.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	12-AUG-2024 09:00
Corrective Action Complete Date	14-AUG-2024 10:45
Corrective Action Expected Completion Date	25-AUG-2024 17:00
Days to Take Action	0
Days Open	2
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2340**
FOD	UI
MSGP Facility Description	TA-60 Asphalt Batch Plant
Inspection Date	19-DEC-2023 15:00
Date EPC Notified	19-DEC-2023 15:00
Specific Location	On the east end of the 35,000 gallon oil tank.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	At the TA-60 Asphalt Batch Plant, oil is leaking from a valve in the front of the 35,000 gallon oil tank onto the ground.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	EPC-CP responded to the new asphalt plant for an oil leak on soil. Approximately one cup of oil (binder) leaked from a loose fitting on the oil binder equipment. Mechanics secured the fitting to stop the leak. An absorbent pad was wrapped and taped over the fitting and will be monitored for any signs of addition leakage. Road & Grounds containerized the affected soil and wiped the equipment with absorbents.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	NA
SIDP Action Taken	NA
Does Corrective Action require modification of SWPPP?	Y
Corrective Action Initiate Date	19-DEC-2023 15:30
Corrective Action Complete Date	20-DEC-2023 09:30
Corrective Action Expected Completion Date	02-JAN-2024 18:09
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

CA#	FOD	Msgp Facility	Inspection Date	EPC Notify Date	Specific Location	Inspector Name	Identifying Name	Finding Description	Problem Description	AIM Level	Corrective Action Description	Corrective Action Initiate Date	Corrective Action Complete Date
2065	UI	TA-60 Asphalt Batch Plant	25-Jan-22	25-Jan-22	West of the old asphalt batch plant on Sigma Mesa.	SANDOVAL LEONARD F	SANDOVAL LEONARD F	Unauthorized release or discharge	Small oil staining on base course from unknown source.	NA	Contaminated gravel/soil mix was excavated to a depth of 6 inches and containerized in a 30 gallon metal drum.	25-Jan-22	25-Jan-22
2067	UI	TA-60 Asphalt Batch Plant	08-Feb-22	08-Feb-22	Entrance to the TA-60 Clean Fill Yard on Sigma Mesa.	SANDOVAL LEONARD F	SANDOVAL LEONARD F	Other (describe) :	Tracking mud in and out of the clean fill yard on Sigma Mesa.	NA	The mud being tracking in and out of the clean fill yard needs to be swept with the street sweeper.	08-Feb-22	08-Feb-22
2077	UI	TA-60 Asphalt Batch Plant	01-Mar-22	01-Mar-22	Just to the North of the sediment retention pond on Sigma Mesa.	SANDOVAL LEONARD F	SANDOVAL LEONARD F	Other (describe) :	Five foot sections of rebar and big chunks/slabs of asphalt in a pile pulled out from underneath the soil during snow removal that need to be managed as metal for recycle or delivered to the LAC transfer station.	NA	Five foot sections of rebar and big chunks/slabs of asphalt in a pile pulled out from underneath the soil during snow removal that need to be managed as metal for recycle or delivered to the LAC transfer station.	01-Mar-22	07-Mar-22
2115	UI	TA-60 Asphalt Batch Plant	27-Jun-22	27-Jun-22	TA-60 Asphalt Batch Plant In front of the weir at outfall 043.	WHEELER HOLLY L	WHEELER HOLLY L	Control measures not properly operated or maintained	At the entrance to the weir at the TA-60 Asphalt Batch Plant, stormwater is going around the edges of the coir log rather than through it. Therefore, the coir log was ineffective at removing sediment prior to discharge.	NA	Evaluate use of additional stormwater control measures to remove sediment from stormwater prior to discharge from outfall 043. The current configuration of the coir log is not removing sediment because stormwater is diverting around it. The coir log across the opening to the flume that discharges to the MSGP sampler was replaced with a new one and second coir log was installed inside the flume to help capture and remove sediment from storm water that is diverted around the first coir log.	29-Jun-22	29-Jun-22

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)
3/29/2021	Monitored Outfalls 043.	Coir log at the concrete flume was replaced.	Jack Caldwell
9/17/2021	Monitored Outfalls 043.	Coir log at the concrete flume was replaced.	Jack Caldwell
6/29/2022	Monitored Outfalls 043.	Coir log at the concrete flume was replaced.	Jack Caldwell
9/27/2022	Monitored Outfalls 043.	Coir log at the concrete flume was replaced.	Cruz Armendariz
4/13/2023	Monitored Outfalls 043.	Coir log at the concrete flume was replaced.	Cruz Armendariz
11/28/2023	Monitored Outfalls 043.	Coir log at the concrete flume was replaced.	Cruz Armendariz
3/27/2024	Monitored Outfalls 043.	Coir log at the concrete flume was replaced.	Cruz Armendariz
10/16/2024	Monitored Outfalls 043.	Coir log at the concrete flume was replaced.	Shane Wagoner

ATTACHMENT 11: TRAINING DOCUMENTATION

MSGP TRAINING FOR
TA-60 Material Recycling Facility, TA-60 Roads and Grounds Facility/Sigma Mesa Staging Areas, and TA-60 Asphalt Plant

Presented by Leonard F. Sandoval

Deployed Environmental Professional

December 2024

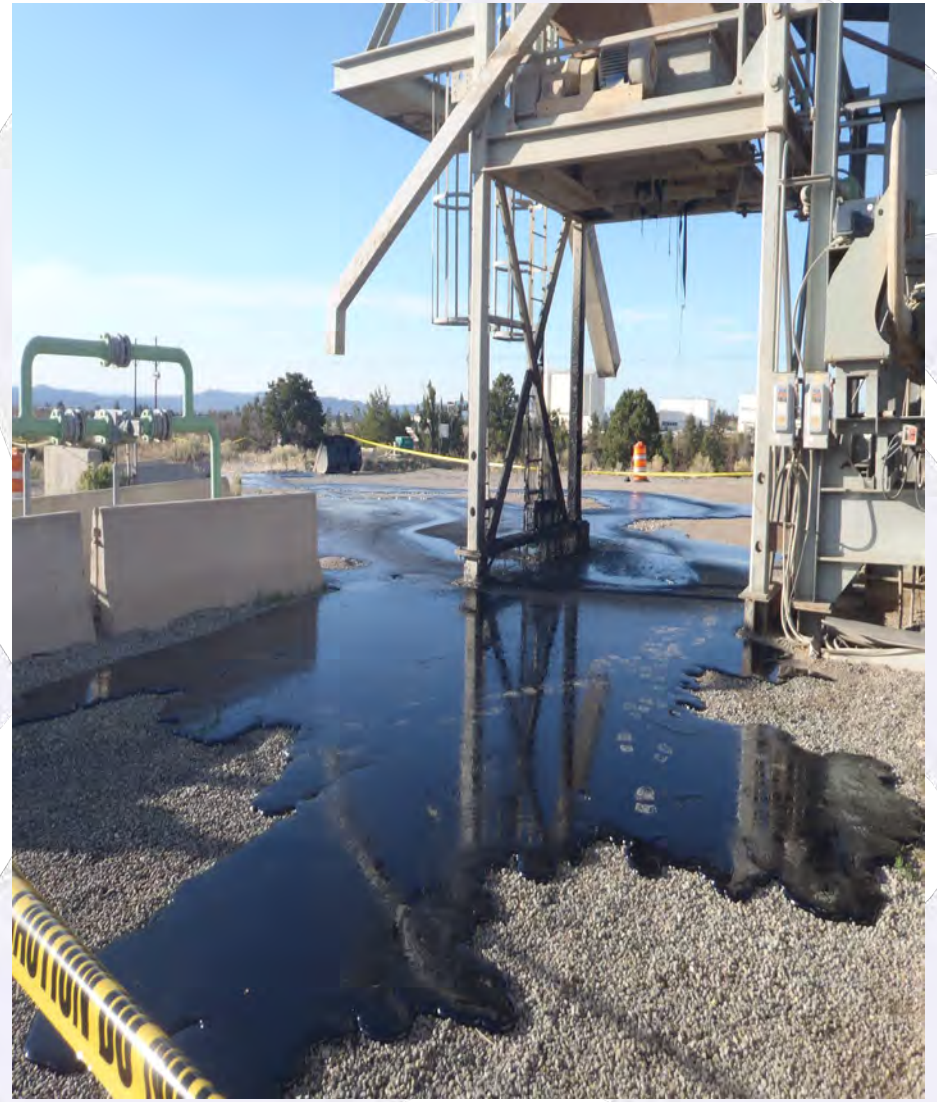
What is the MSGP?

- Multi-Sector General Permit - A nation-wide general permit
  - Applies to only those areas of the US where EPA is identified as the permitting authority (Like here in NM)
- Authorizes the discharge of stormwater from specific industrial activities to meet Clean Water Act Provisions
  - 60-0250, 60-0234, & 60-0311 Industrial activities include:
    - Land Transportation and Warehousing (Sector P)
    - Asphalt Paving, Roofing Material, & Lubricant Manufacturing (Sector D)
    - Scrap Recycling and Waste Recycling (Sector N)
- EPA is the regulatory authority in New Mexico
  - NM Environment Department is delegated authority to conduct inspections

Purpose of the MSGP

- Minimize off-site migration of pollutants
  - Sediment is the #1 pollutant of waterbodies on the US
  - Stormwater runoff is a **major** factor in water quality
  - At LANL sediment, spills and trash are the major pollutants
  - Proactive approach will prevent reactive requirement to address conditions requiring corrective action

Pollutants



Stormwater Control Measures (SCMs) or Best Management Practices (BMPs)

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    - Good housekeeping
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- All personnel implementing the MSGP must be trained to it
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- Describes stormwater controls used to reduce/eliminate pollutants in discharge
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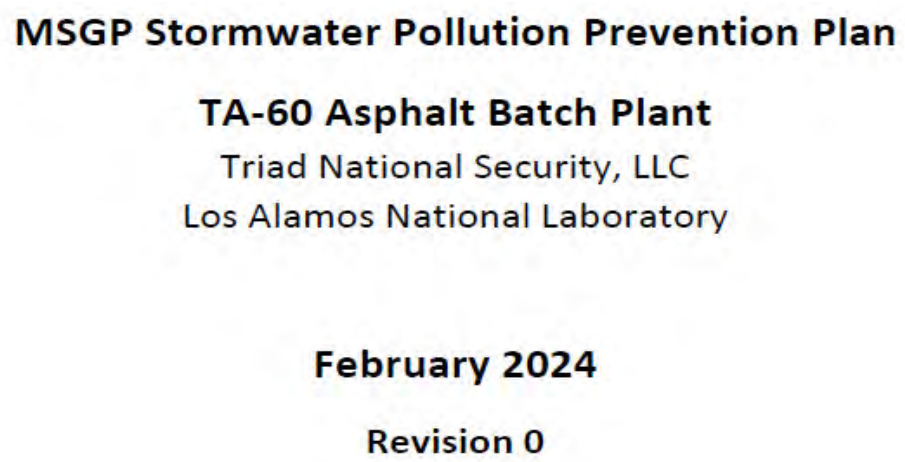

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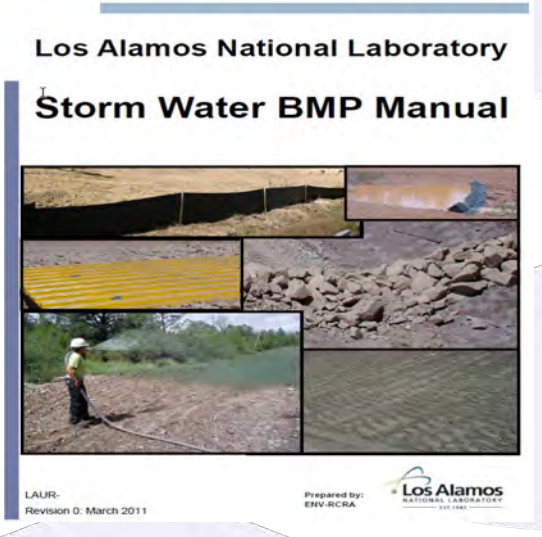

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Corrective Action Time Frames

- 2 time-frames identified in the MSGP: Immediate & Subsequent
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- Complete the corrective action (e.g., install a new or modified control and make it operational or complete the repair) *before the next storm event or within 14 calendar days from the time of discovery*
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- Within 24 hours of discovery enter a description of the condition requiring corrective action and the date the condition was identified in the Corrective Action Report (CAR) database (DEP responsibility).
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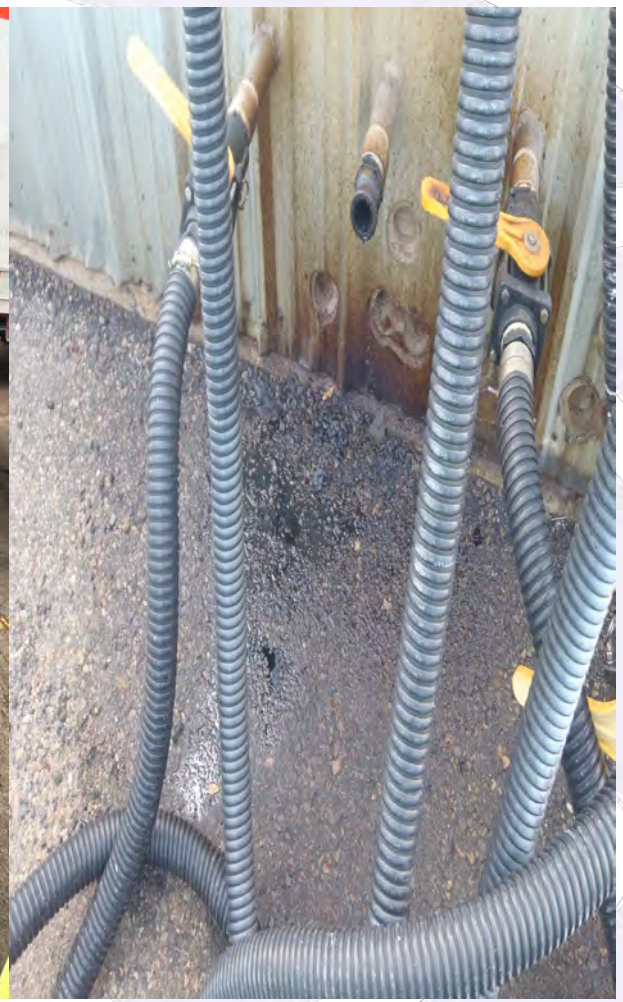
Unplanned Releases/Spills



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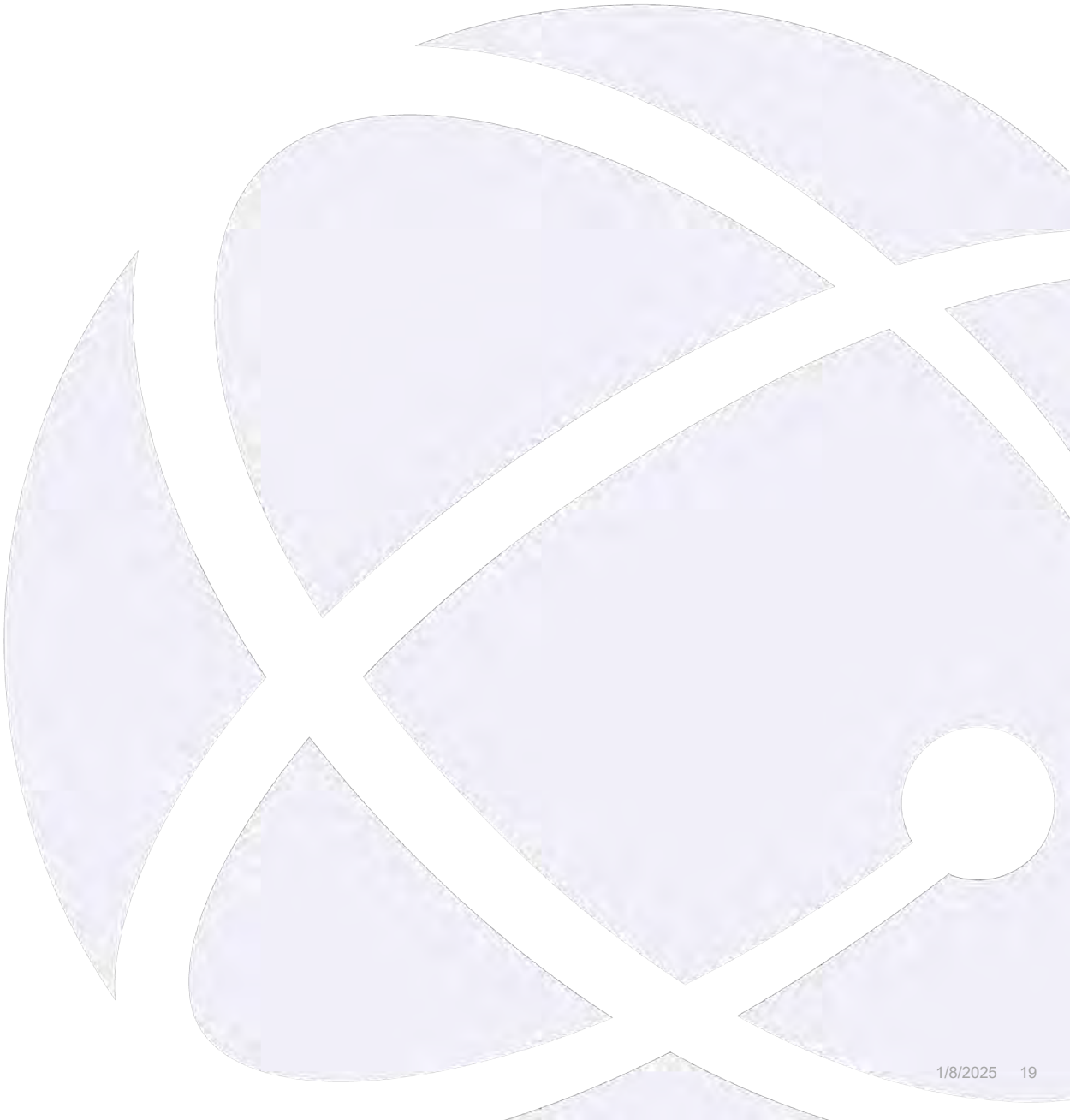

MSGP TRAINING FOR
TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas, and Asphalt Batch Plant

Presented by Leonard F. Sandoval

Deployed Environmental Professional

December 2023

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- Multi-Sector General Permit - A nation-wide general permit
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  - Sediment is the #1 pollutant of waterbodies on the US
  - Stormwater runoff is a **major** factor in water quality
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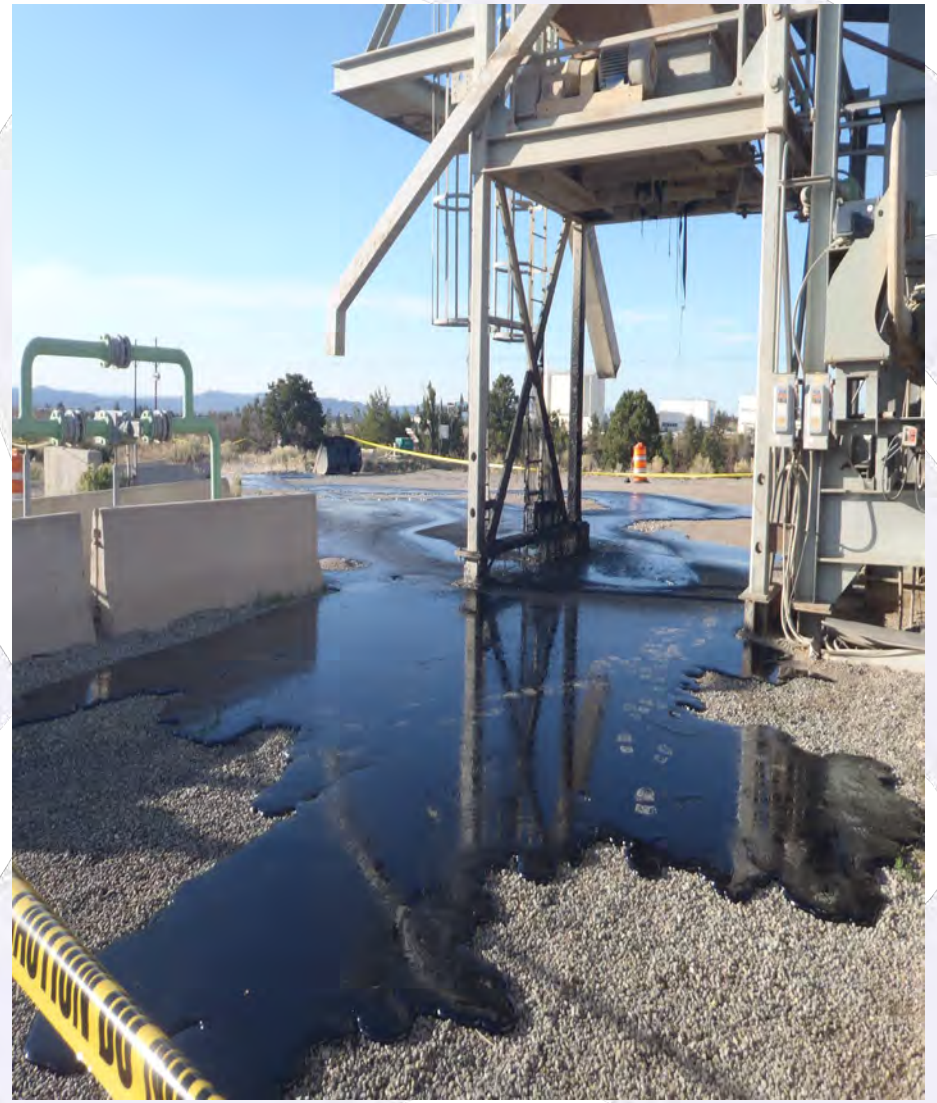

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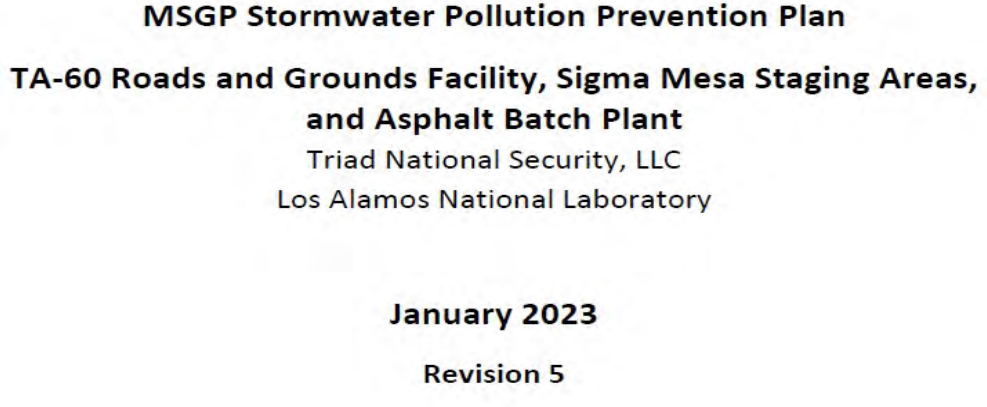
MSGP Stormwater Pollution Prevention Plan

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Triad National Security, LLC

Los Alamos National Laboratory

January 2023

Revision 5

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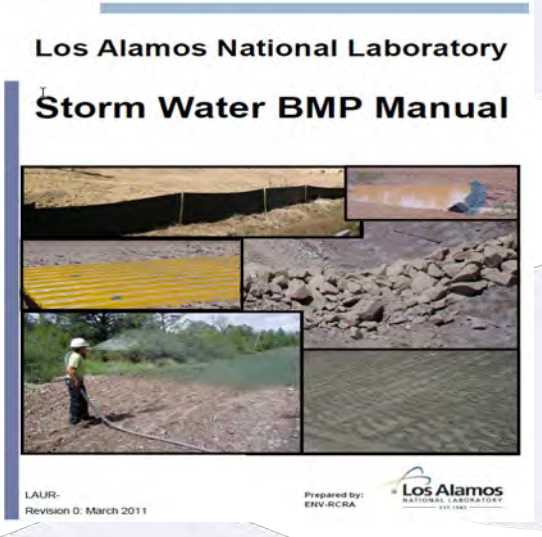

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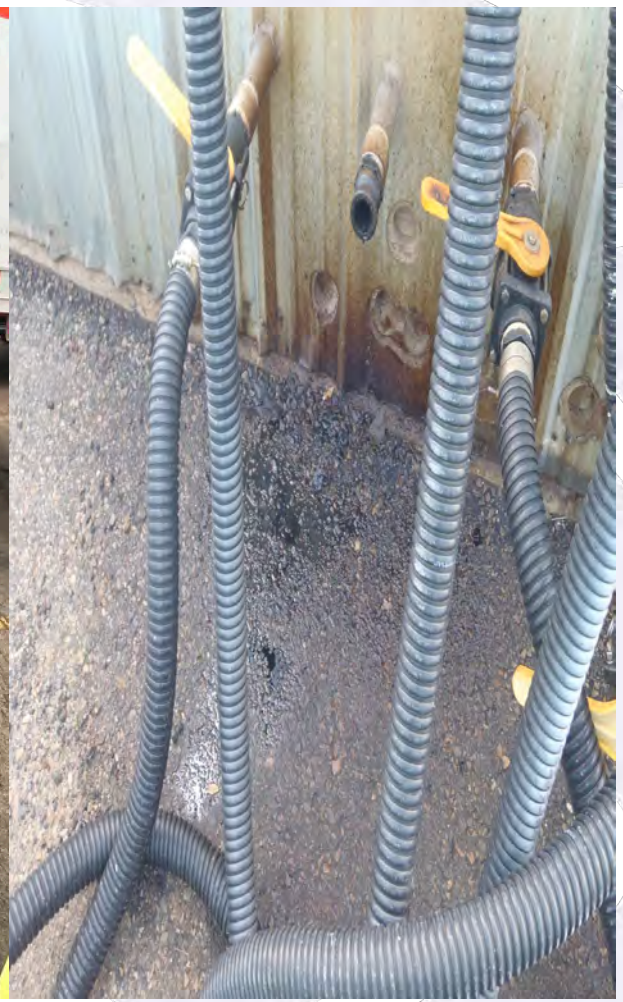

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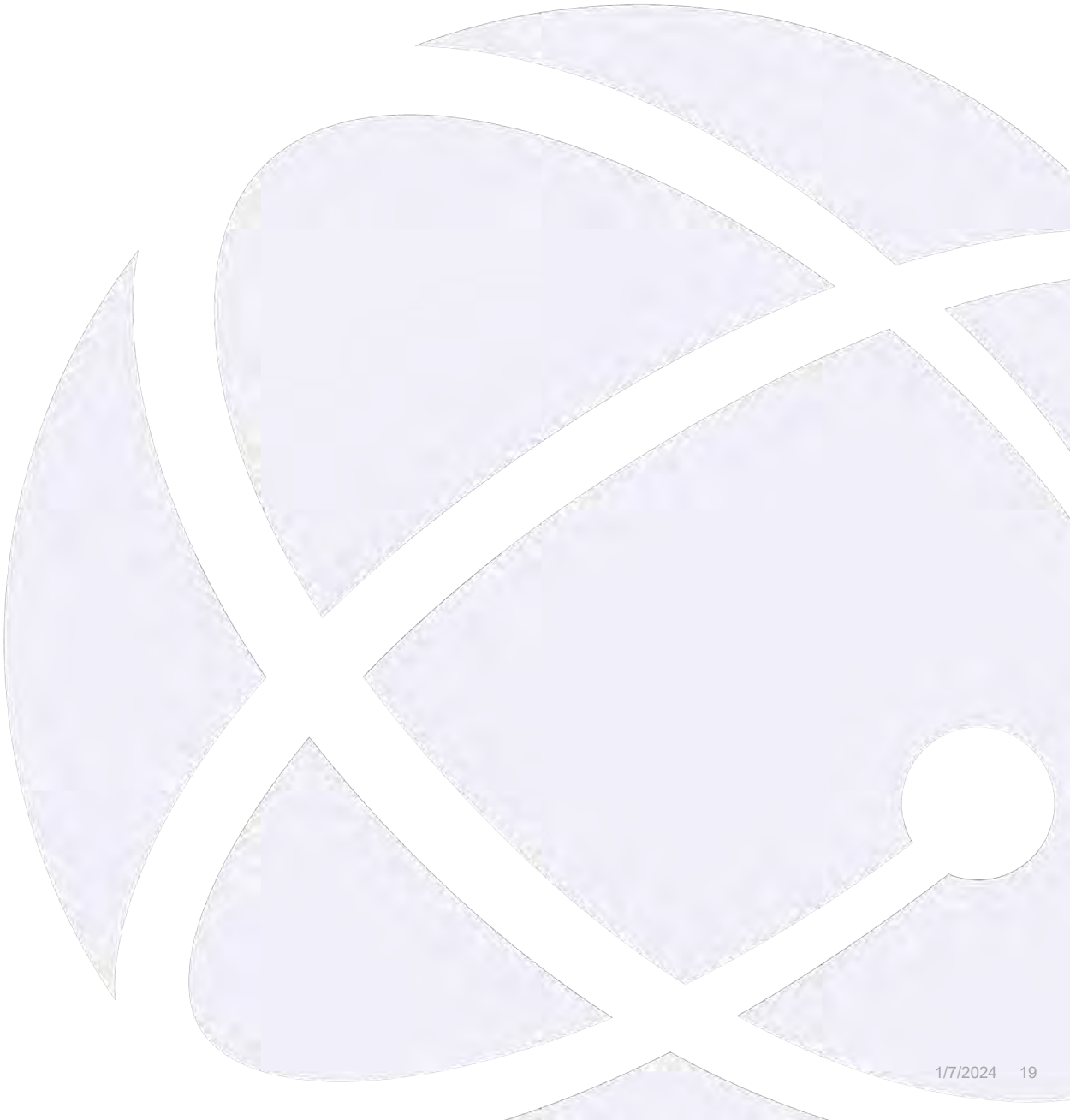

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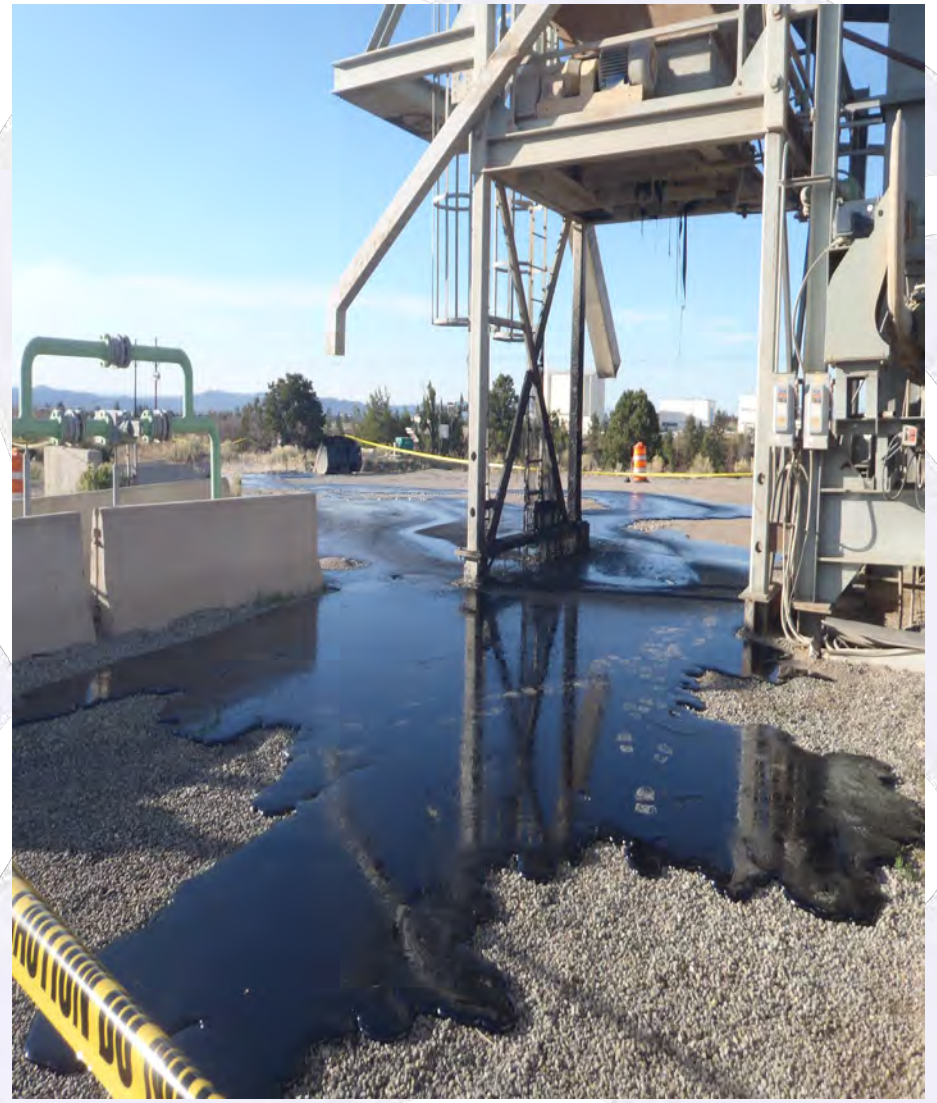

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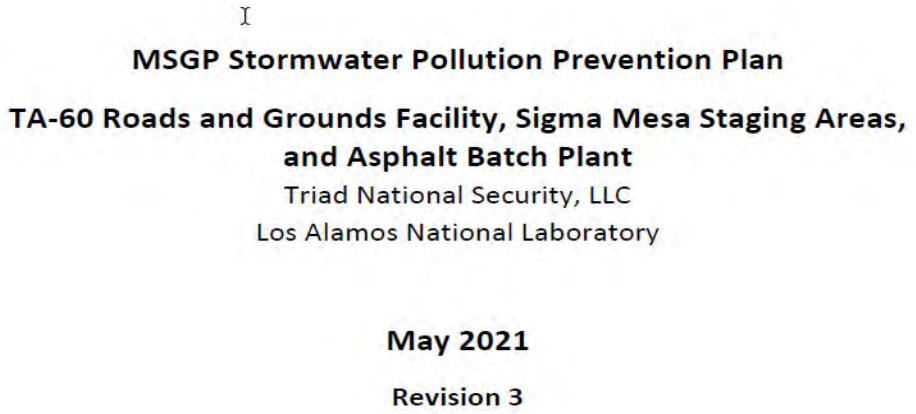

MSGP Stormwater Pollution Prevention Plan

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Triad National Security, LLC

Los Alamos National Laboratory

May 2021

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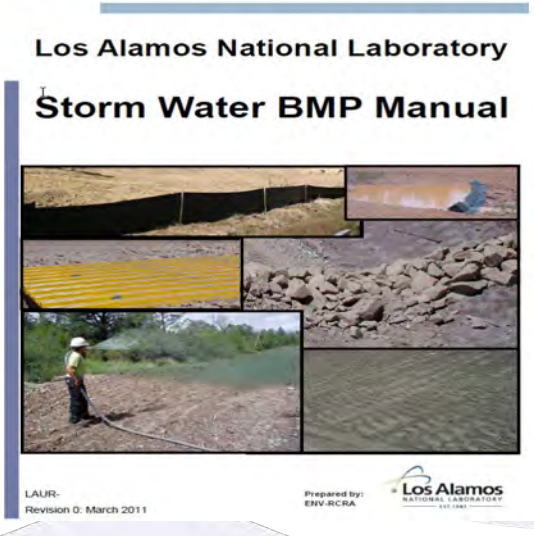

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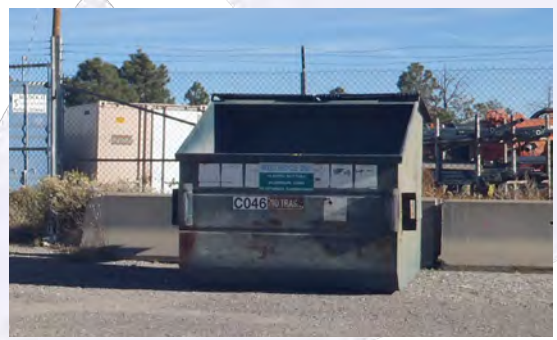

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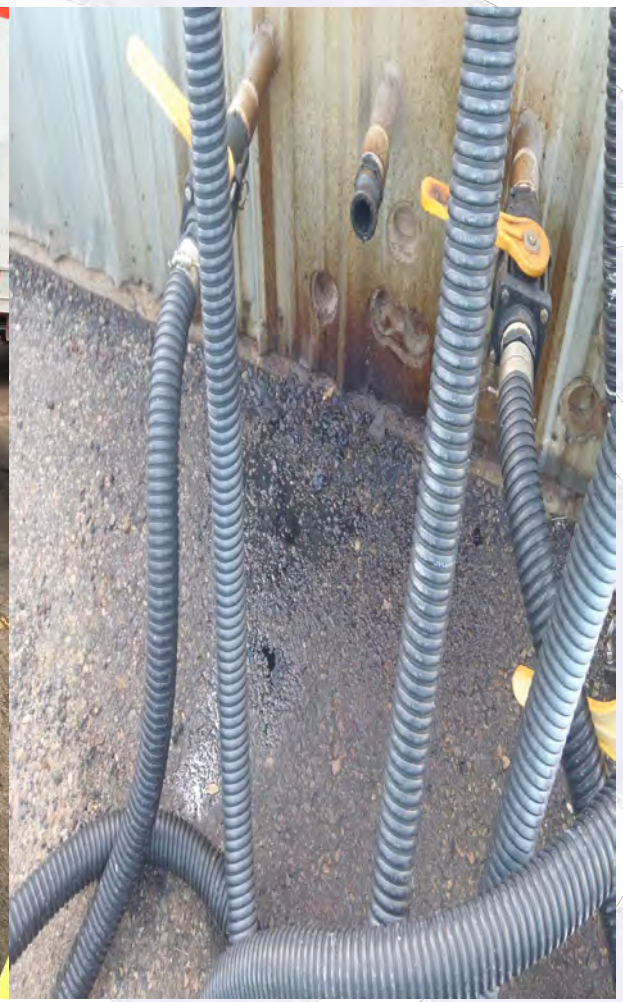

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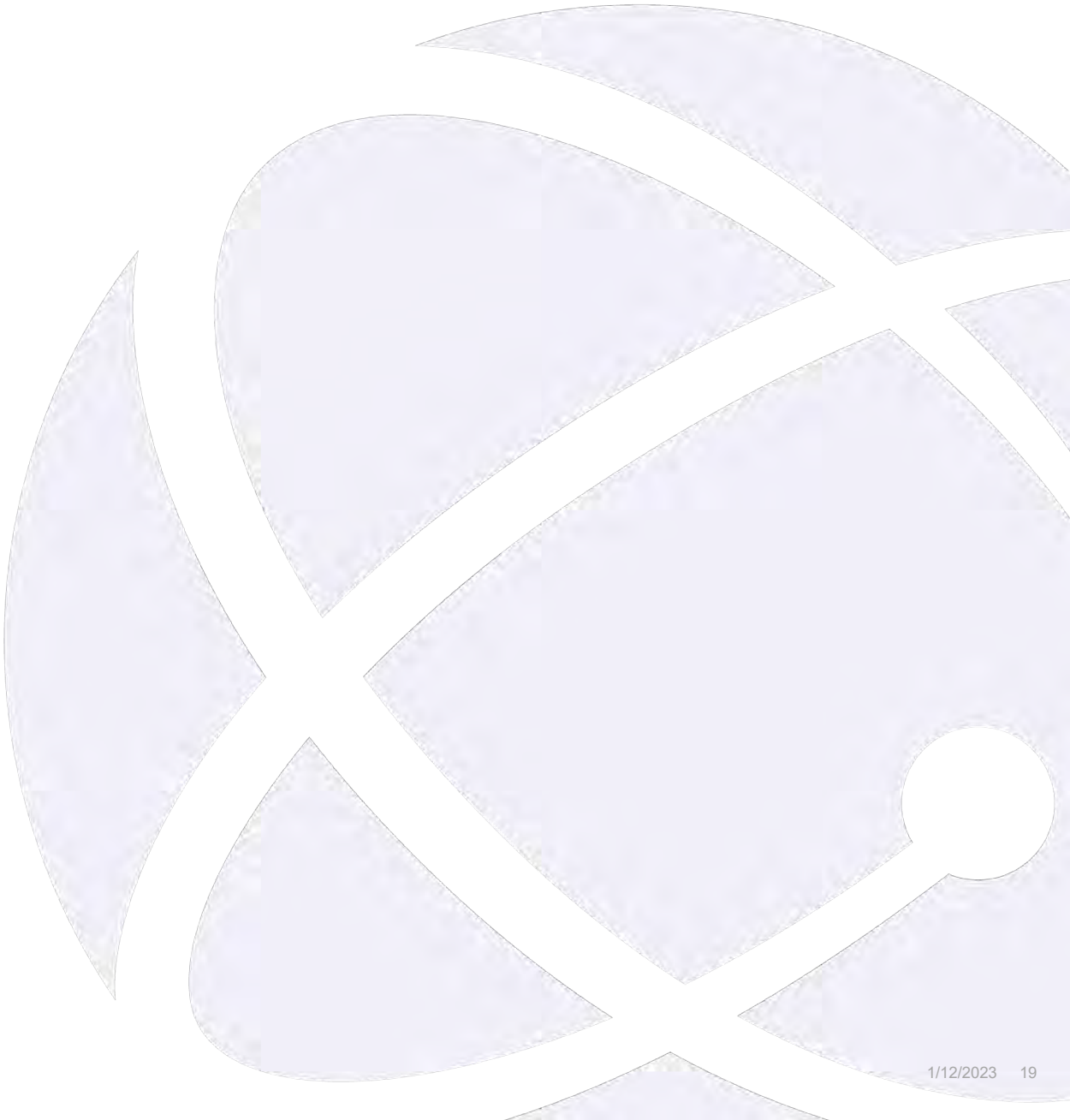

ATTACHMENT 12: MSGP (OR ACTIVE URL)

The link for the 2021 MSGP.

ATTACHMENT 13: THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR LOS ALAMOS NATIONAL LABORATORY

LA-UR-22-20556

Approved for public release; distribution is unlimited.

Title:	Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory
Author(s):	Thompson, Brent Eugene Hathcock, Charles Dean Sanchez, Audrey Anna
Intended for:	Environmental Regulatory Document
Issued:	2022-04-14 (rev.2)

Los Alamos
NATIONAL LABORATORY

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Los Alamos
NATIONAL LABORATORY

Prepared for: U.S. Department of Energy/National Nuclear Security Administration,
Los Alamos Field Office

Prepared by: Environmental Protection and Compliance Division
Resources Management Team
Los Alamos National Laboratory
An Affirmative Action/Equal Opportunity Employer

Editing and Layout by: Tamara Hawman
Communication Arts & Services
Los Alamos National Laboratory

Cover photo: Mexican Spotted Owls at Los Alamos National Laboratory

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I. THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN GENERAL OVERVIEW

1.0 Introduction

The Los Alamos National Laboratory (LANL) Threatened and Endangered Species Habitat Management Plan (HMP) fulfills a commitment made to the U.S. Department of Energy (DOE) in the "Final Environmental Impact Statement for the Dual-Axis Radiographic Hydrodynamic Test Facility Mitigation Action Plan" (DOE 1996). The HMP received concurrence from the U.S. Fish and Wildlife Service (USFWS) in 1999 (USFWS consultation numbers 2-22-98-I-336 and 2-22-95-I-108). This 2022 update retains the management guidelines from the 1999 HMP for listed species and updates some descriptive information.

2.0 Role of Site Plans in the HMP

The purpose of the HMP is to provide a management strategy for Endangered Species Act (ESA) compliance through the protection of threatened and endangered species and their habitats on LANL property. The HMP consists of site plans for federally listed threatened or endangered species that have a moderate or high probability of occurring at LANL. The following federally listed threatened or endangered species currently have site plans at LANL: Mexican Spotted Owl (*Strix occidentalis lucida*), Southwestern Willow Flycatcher (*Empidonax traillii extimus*), and Jemez Mountains Salamander (*Plethodon neomexicanus*). Site plans provide guidance to ensure that LANL operations do not adversely affect threatened or endangered species or their habitats.

The Black-footed Ferret (*Mustela nigripes*) is federally listed as endangered; however, no sightings of Black-footed Ferrets have been reported in Los Alamos County for more than 70 years. In addition, no large prairie dog towns—prime habitat for Black-footed Ferrets—have been observed at LANL; therefore, there is no site plan for this species.

The New Mexico Meadow Jumping Mouse (*Zapus hudsonius luteus*) and western distinct population segment of the Yellow-billed Cuckoo (*Coccyzus americanus*) do not require a site plan because they do not have breeding habitat on LANL property. In Keller (2015), it was concluded that if any LANL work activities—onsite or offsite—might affect habitat for these two species, those activities would be reviewed for impacts.

3.0 Description of Areas of Environmental Interest

Suitable habitats for federally listed threatened and endangered species have been designated as areas of environmental interest (AEIs), which are geographical units at LANL that are managed for the protection of federally listed species and consist of core habitat areas and buffer areas. The purpose of the core habitat is to protect areas essential for the existence of the specific threatened or endangered species. This includes the appropriate habitat type for breeding, prey availability, and micro-climate conditions. The purpose of buffer areas is to protect core areas from undue disturbance and habitat degradation.

Site plans identify restrictions on activities within the AEIs. The USFWS reviewed allowable activities and provided concurrence that these activities are not likely to adversely affect federally listed species.

Activities discussed in site plans include day-to-day activities that cause disturbance (hereafter referred to as "disturbance activities"), such as access into an AEI, and long-term impacts, such as habitat alteration.

3.1 *Definition and Role of Developed Areas in AEI Management*

Developed areas include all building structures, paved roads, improved gravel roads, paved and unpaved parking lots, and firing sites. The extent of developed areas in each AEI was determined using two methods. First, LANL geographic information system (GIS) analysts placed a 15-meter (m; 49-foot [ft]) border around all buildings and parking lots. For paved and improved gravel roads, the developed area was defined as the area to a roadside fence if one exists within 9 m (30 ft) of the road or 5 m (15 ft) on each side of the road if there is no fence within 9 m (30 ft). If an area of highly fragmented habitat was enclosed by roads, a security fence, or connected buildings, that area was also classified as developed. Developed areas at firing sites were defined as a circle with a 91-m (300-ft) radius from the most centrally located firing pad. Second, LANL GIS analysts overlaid scanned orthophotos onto a map of the Los Alamos area and digitized all areas that appeared developed. These two information sources were overlaid and combined so that areas classified as developed by either method were considered developed in final maps and analyses. Some areas were confirmed by ground surveys.

Developed areas occur in the core and/or buffer of all AEIs; however, developed areas do not constitute suitable habitat for federally listed species. Current ongoing activities in developed areas constitute a baseline condition for the AEIs and are not restricted. New activities, including further development within already existing developed areas, are not restricted unless they impact undeveloped portions of an AEI core. For example, if light or noise from a new office building in a developed area were to raise levels in an undeveloped core area, those light and noise levels would be subject to the guidelines on disturbance or habitat alterations.

3.2 *General Description of Buffer Areas and Allowable Buffer Area Development*

The purpose of buffer areas is to protect core areas from undue disturbance or habitat degradation. The 1999 levels of development in buffer and core areas represent baseline conditions for this HMP. No further development is allowed in the core area under the guidelines of this HMP. A limited amount of development may be allowed in buffer areas. Each species' site plan details the allowable levels. Under the guidelines of this HMP, individual development projects are limited to 2 hectares (ha; 5 acre [ac]) in size, including a 15-m (49-ft) developed-area border around structures and a 5-m (15-ft) developed-area border around paved and improved gravel roads. Projects greater than 2 ha (5 ac) in size require individual review for ESA compliance (see exceptions for fuels management activities and utility corridor maintenance).

3.3 *Emergency Actions*

Managers may activate emergency actions if safety and/or property is immediately threatened by something occurring within an AEI (e.g., wildfire, water line breakage). Contact a LANL biologist (https://int.lanl.gov/environment/bio/index.shtml), the Environmental Stewardship Group (505-665-8855), or the DOE/National Nuclear Security Administration (NNSA) Los Alamos Field Office (505-667-7014) as soon as possible. If the emergency occurs outside of regular business hours, contact the Emergency Operations Support Center (505-667-2400); this office will then communicate with the appropriate LANL and DOE/NNSA Field Office personnel.

4.0 Implementation of Site Plans

4.1 *Roles and Responsibilities*

LANL's facility managers and operational staff are responsible for ensuring that activities are reviewed for compliance with all applicable site plans. Figure I-1 illustrates the process for utilizing site plans. If activities follow approved Site Plan guidelines, there is no requirement for additional ESA regulatory compliance; however, if proposed activities fall outside of the requirements of the Site Plan(s), then the project must fund a biological assessment for their activity.

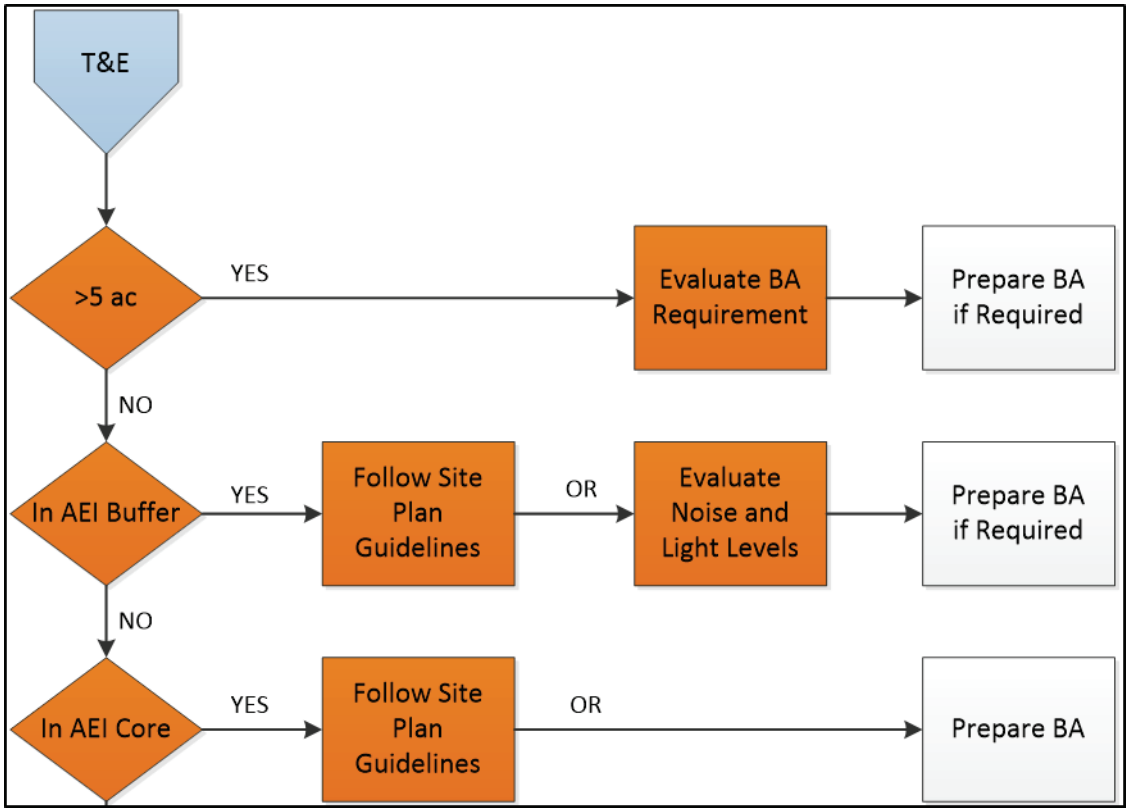

Figure I-1. Process flowchart for determining site plan requirements

If an activity or project occurs outside of all LANL AEIs and will not impact habitat within an AEI, it does not have to be reviewed for ESA compliance unless it is a large project in an undeveloped area that could have impacts on nearby habitat. Projects that are larger than 2 ha (5 ac) or cost more than $5 million require an individual ESA compliance review even if they are not located within an AEI.

LANL's facility managers are responsible for determining if operations within their geographic and/or programmatic areas of responsibility comply with the guidelines in these site plans. Submission of a project into the integrated review tool for a new or modified project is required under *Environmental Management System*, System Description (SD) 400 (LANL 2021) and allows managers to identify the requirements within their project areas. Deployed environmental professionals and core LANL biologists are available to support facility managers. If activities follow site plan guidelines, they do not require any additional ESA regulatory compliance action; however, NEPA, cultural resources, wetlands, or other

regulatory compliance actions are not addressed in site plans, and additional compliance actions may be required for these actions. It is the responsibility of the project leader or facility management staff to ensure that all requirements are satisfied. If you have questions, contact biological, cultural, NEPA, or other environmental subject matter experts.

A single facility may have one or more AEIs within its boundary, and the AEIs may be for different species. Some AEIs overlap. In areas where overlap occurs, project managers must follow the guidelines for AEIs of all involved species.

4.2 *Activities that Do Not Meet Site Plan Guidelines*

If a project reviewer determines that an activity or project cannot meet the guidelines in applicable site plans, LANL biologists evaluate that activity individually for compliance with the ESA. Results of the evaluation of potential impacts allow LANL biologists to make recommendations to the DOE/NNSA Field Office Biological Resources Program Manager regarding the need for USFWS consultation. An evaluation may result in a DOE/NNSA Field Office

- determination that there is no effect and the activity may proceed,
- suggestion for modifications of the action to avoid adverse effects so that it may proceed, or
- decision to prepare a biological assessment for the activity and submit it to the USFWS for concurrence.

Fieldwork and preparation of a biological assessment can take several months, with an additional 2 to 12 months for DOE/NNSA Field Office review and then final USFWS concurrence.

4.3 *Dissemination of Information*

Habitat locations of threatened and endangered species are not considered sensitive; however, it is in the best interest of threatened and endangered species to restrict specific knowledge about their locations.

5.0 Changes in the HMP since Implementation

The HMP received concurrence from USFWS and was first implemented in 1999. Since that time, both the Peregrine Falcon (*Falco peregrinus*) and the Bald Eagle (*Haliaeetus leucocephalus*) have been delisted. Site plans for those species have been removed from LANL's HMP. Both species are protected at LANL under the Migratory Bird Treaty Act, and the Bald Eagle is also protected under the Bald and Golden Eagle Protection Act.

In 2005, the USFWS concurred with DOE's proposal for updated Mexican Spotted Owl habitat boundaries based on a revised analysis of Mexican Spotted Owl habitat quality within DOE property around LANL (USFWS consultation number 22420-2006-I-0010).

In 2012, the USFWS concurred with DOE's proposal to modify the habitat boundaries for the Los Alamos Canyon Mexican Spotted Owl AEI due to changes from the fire response activities after the Las Conchas wildfire (USFWS consultation number 02ENNM00-2012-IE-0088).

In 2013, the USFWS concurred with the DOE's new site plan for the Jemez Mountains Salamander and its addition to LANL's HMP (USFWS consultation number 02ENNM00-2014-I-0014).

In 2015, the USFWS concurred with the DOE's addition of the New Mexico Meadow Jumping Mouse and Yellow-billed Cuckoo to LANL's HMP (USFWS consultation number 02ENNM00-2015-I-0538).

In 2017, the USFWS concurred with DOE's proposal to modify the habitat boundaries for the lower section of Water Canyon Mexican Spotted Owl AEI due to habitat degradation that resulted from long-term drought and fire effects (USFWS consultation number 02ENNM00-2017-I-0255).

In 2022, the HMP was revised for formatting and updated language and to revise Section 5.0 in the Mexican Spotted Owl site plan. This effort was a required mitigation in a recent consultation (USFWS consultation number 02ENNM00-2020-I-1412).

6.0 Data Management

The data used in the implementation of the HMP are stored in a geodatabase at LANL. The current map of all of the AEIs at LANL is shown in Figure A-1 in the appendix.

II. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE MEXICAN SPOTTED OWL

1.0 Species Description—Mexican Spotted Owl

1.1 *Status*

In 1993, the USFWS determined the Mexican Spotted Owl to be a threatened species under the authority of the ESA, as amended (58 Federal Register [FR] 14248). In 1995, the USFWS released its final recovery plan for the owl (USFWS 1995), which was revised in 2012 (USFWS 2012). The USFWS most recently designated critical habitat for Mexican Spotted Owl in 2004 (69 FR 53182).

1.2 *General Biology*

The Mexican Spotted Owl is found in northern Arizona, southeastern Utah, and southwestern Colorado south through New Mexico, west Texas, and into Mexico. It is the only subspecies of Spotted Owl recognized in New Mexico (USFWS 1995).

The Mexican Spotted Owl generally inhabits mixed conifer and ponderosa pine- (Pinus ponderosa; Lawson & C. Lawson) Gambel oak (Quercus gambelli; Nutt.) forests in mountains and canyons. High canopy closure, high stand diversity, multilayered canopy resulting from an uneven-aged stand, large mature trees, downed logs, snags, and stand decadence as indicated by the presence of mistletoe are characteristics of Mexican Spotted Owl habitat. Some owls have been found in second-growth forests (i.e., younger forests that have been logged); however, these areas were found to contain characteristics typical of old-growth forests. Mexican Spotted Owls in the Jemez Mountains prefer cliff faces in canyons for their nest sites (Johnson and Johnson 1985). The recovery plan for the Mexican Spotted Owl recommends that mixed conifer and pine-oak woodland types on slopes greater than 40 percent be protected for the conservation of this owl.

A mated pair of adult Spotted Owls might use the same home range and general nesting areas throughout their lives. A pair of owls requires approximately 800 ha (1,976 ac) of suitable nesting and foraging habitat to ensure reproductive success. Incubation is carried out by the female. The incubation period is approximately 30 days, and most eggs hatch by the end of May. Most owlets fledge in June, 34 to 36 days after hatching (USFWS 1995). The owlets are “semi-independent” by late August or early September, although juvenile begging calls have been heard as late as September 30. Young are fully independent by early October. The non-breeding season runs from September 1 through February 28. Although seasonal movements vary among owls, most adults remain within their summer home ranges throughout the year.

The diet of Mexican Spotted Owls who nest in canyons consists primarily of woodrats (*Neotoma spp.*) and deer mice (*Peromyscus spp.*), with fewer numbers of rabbits, birds, reptiles, and arthropods (Willey 2013). The relative abundance of prey types in Mexican Spotted Owl pellets collected at LANL is listed in Table A-1 in the appendix. Ganey and Balda (1994) found that core areas of individuals (i.e., where owls spent 60 percent of their time) averaged 134 ha (331 ac), and core areas for pairs averaged 160 ha (395 ac).

1.3 *Threats*

The Mexican Spotted Owl was listed as threatened because of destruction and modification of habitat caused by timber harvest, wildfires, increased predation on owls associated with habitat fragmentation, and a lack of adequate protective regulations.

2.0 Impact of Human Activities

2.1 *Introduction*

The primary threats to Mexican Spotted Owls on LANL property are (1) impacts to habitat quality from LANL operations and (2) disturbance of nesting owls. This section provides a review and summary of scientific knowledge of the effects of various types of human activities on the Mexican Spotted Owl and provides an overview of the current levels of activities at LANL.

2.2 *Impacts on Habitat Quality*

2.2.1 Development

The type of habitat used by Mexican Spotted Owls—late seral stage forests with large trees—is usually not found in large quantities near developed areas or near areas that have experienced recent agricultural or forest product extraction land uses; therefore, Mexican Spotted Owls generally are not found near developments. Whether it is the development or a lack of suitable habitat that discourages colonization of these areas by Mexican Spotted Owls is unknown.

Areas of LANL vary from remote, undeveloped areas to heavily developed and/or industrialized facilities. Most LANL facilities are situated atop mesas, primarily in the northern and western portion of the DOE property. LANL is bounded by developed residential, industrial, and retail areas along its northern boundary (the town of Los Alamos) and by residential and retail development along a portion of its eastern boundary (the town of White Rock). Three major paved roads traverse LANL from northeast to southwest. Sandia, Pajarito, and Los Alamos canyons have paved roads within AEIs, and several AEIs have dirt roads along at least a portion of the canyon bottom. AEIs that contain paved or dirt roads in the canyon bottoms have not been occupied at LANL (Hathcock et al. 2010).

2.2.2 Ecological Risk

No specific information exists on the impact of chemicals on the Mexican Spotted Owl, although experience with other raptor species suggests that exposure to polychlorinated biphenyls (PCBs), dichloro-diphenyl-trichloroethane (DDT) and its derivatives, and other organophosphate or organochlorine pesticides would probably be harmful. Exposure to other chemicals could also be harmful (Cain 1988).

Between 1997 and 2009, LANL subject matter experts completed three ecological risk assessments that included the Mexican Spotted Owl. The ecological risk assessment process involves using computer modeling to assess potential effects to animals from chemicals of potential concern that have been detected in the environment. All of the following ecological risk assessments concluded that, on average, no appreciable impact to Mexican Spotted Owls is expected from chemicals of potential concern (Gallegos et al. 1997; Gonzales et al. 2004; Gonzales et al. 2009).

2.2.3 Disturbance

Pedestrians and Vehicles

Based on work with other raptors, LANL biologists assume that Mexican Spotted Owls would likely be disturbed by the approach of either pedestrians or vehicles. At an equal distance, pedestrians are frequently more disturbing to raptors than vehicles (Grubb and King 1991). Brown and Stevens (1997) reported that, during surveys in Grand Canyon National Park, 22 times more Bald Eagles were found in canyon reaches with low human recreational use compared with reaches with moderate-to-high human recreational use. Human activity 100 m (328 ft) from Bald Eagle nests in Alaska caused clear and consistent changes in behavior of breeding eagles (Steidl and Anthony 2000).

Swarthout and Steidl (2001) found that both juvenile and adult roosting Mexican Spotted Owls were unlikely to alter their behavior in the presence of a single hiker at distances greater than 55 m (180 ft). Swarthout and Steidl (2003) concluded that cumulative effects of high levels of short-duration recreational hiking near Mexican Spotted Owl nests could be detrimental.

Many canyon bottoms and mesa tops at LANL have dirt roads traversing them. Most of these roads are gated; however, these roads are accessible to LANL employees, and some of them are accessible to the public on foot or by bike. LANL biologists found that AEIs are occupied less often if there is recreational access into a canyon (Hathcock et al. 2010).

Aircraft

Ground-based disturbances appear to impact raptor reproductive success more than aerial disturbances (Grubb and King 1991). Grubb and Bowerman (1997) concluded that an exclusion of aircraft within 600 m (1,968 ft) of Bald Eagle nest sites would limit Bald Eagle response frequency to 19 percent.

Delaney et al. (1999) found that, for Mexican Spotted Owls, chainsaws consistently elicited higher response rates than helicopters at similar distances. Owl flush rates did not differ between nesting and non-nesting seasons. No owls flushed when noise stimuli (helicopter or chainsaws) were at distances greater than 105 m (344 ft). Distance was generally a better predictor of owl response to helicopter overflights than sound level.

LANL is restricted airspace, and planes infrequently fly less than 609 m (2,000 ft) above ground level. The County of Los Alamos operates an airport along the northern edge of LANL. The airport is located on the southern rim of Pueblo Canyon. Most flights approach and depart to the east of the airport, over the Rio Grande.

Explosives

No specific information is currently available on the reaction of Mexican Spotted Owls to explosives detonation. Explosive blasts set off 120 to 140 m (393 to 459 ft) from active Prairie Falcon (*Falco mexicanus*) nests caused perched Prairie Falcons to flush from perches 79 percent of the time and, in 26 percent of the cases, caused incubating Prairie Falcons to flush from nests. Measured sound levels at aerie entrances during blasts ranged from 129 to 141 decibels (dB) (Holthuijzen et al. 1990). Explosives blasting for dam construction 560 to 1,000 m (1,837 to 3,280 ft) from active Prairie Falcon nests caused a change in behavior 26 percent of the time, and birds flushed in 17 percent of all cases. No incubating birds flushed (Holthuijzen et al. 1990). Brown et al. (1999) found little activity change in roosting or

nesting Bald Eagles and no population-level impacts from weapons detonations at the Aberdeen Proving Ground. Holthuijzen et al. (1990) found that a 167-gram (g; 5.89-ounce [oz]) charge of Kinestik produced noise levels between 138 and 141 dB at 100 m (328 ft) and that a 500-g (17.6-oz) charge of trinitrotoluene(2,4,6-) (TNT) produced noise levels between 144 and 146 dB at 100 m (328 ft). A 20-kilogram (kg; 44-pound [lb]) charge of TNT produced noise levels that measured 163 dB at 100 m (328 ft) (Paakkonen 1991).

Measurements of noise levels during explosives testing were conducted at three locations at LANL using quantities of high explosives ranging from 4.5 to 67.5 kg (10 to 148 lb) of TNT during six shots. Noise levels increased during the test from a background level of 31 A-weighted decibels [dB(A)] to a range between 64 and 71 dB(A) during shots at a distance of 1.8 kilometers (km; 1.1 miles [mi]). At a distance of 4.3 km (2.67 mi), noise levels rose from a background range of 35 to 64 dB(A) to a range of 60 to 63 dB(A) (Vigil 1995). At a distance of 6.7 km (4.16 mi), noise levels rose from a background range of 38 to 51 dB(A) to a range of 60 to 71 dB(A) (Burns 1995). LANL biologists estimated that the noise from a shot at the Dual-Axis Radiographic Hydrodynamic Test (DARHT) Facility would be 150 dB(A) at the source and 80 dB(A) at 400 m (1,312 ft) (Keller and Risberg 1995). LANL biologists found that Mexican Spotted Owl AEIs located within the explosives-testing buffer area were occupied more frequently than AEIs in other locations (Hathcock et al. 2010)—likely due to the strict access control in explosives areas that limits human activity and development in the canyon bottoms.

Other Sources of Noise

Major noise-producing activities at LANL include automobile and truck traffic and noise associated with office buildings, construction activities, a live-fire range, and explosives testing. Noise is also associated with aircraft traffic at the Los Alamos County Airport. Construction and maintenance activities involved with operations at LANL are fairly common. In addition, implementation of the 2016 Compliance Order on Consent issued by the New Mexico Environmental Department has resulted in an increased frequency of drilling groundwater-monitoring wells in protected habitat at LANL. Also, forest fuels management operations use chainsaws, chippers, and other noise-generating equipment. The 2010 National Pollutant Discharge Elimination System Individual Permit (EPA 2010) issued by the Environmental Protection Agency requires LANL to comply with minimizing pollutants in storm water discharges from associated historical industrial activities. To do so, site-specific stormwater and sediment control features such as berms, rock check dams, and other best management practices (BMPs) are installed at various sites around LANL. These BMPs—and the associated monitoring required—often occur in canyon bottoms in protected habitat. LANL biologists conducted a study of noise levels in canyons and found that the primary sources of noise that exceed 55 dB(A) were cars and trucks. Readings taken near flowing water were up to 11 dB(A) higher than readings taken elsewhere. The average dB(A) in canyons near paved roads ranged from 41 to 62, with maximum values ranging from 62 to 74. Away from paved roads 1.6 km (1 mi) or more, average dB(A) in canyons ranged from 37 to 50, with all but one average below 45. Maximum dB(A) away from paved roads ranged from 38 to 76; 76 dB(A) was measured during a thunder clap (Huchton et al. 1997).

In December 1997, LANL biologists conducted noise measurements at the Los Alamos County Airport and in Bayo and Pueblo canyons, including the Los Alamos County Sewage Treatment Facility. Sound levels near the airport runway during the maximum use time (6:30 to 7:30 a.m.) had background values averaging 54 dB(A). Noise during plane arrivals ranged from 47 to 63 dB(A). No measurements were collected during plane take-off. Sound measurements conducted in the bottoms of Pueblo and Bayo canyons ranged from 37 to 40 dB(A) in most areas of the canyon. At the sewage treatment facility

parking lot during a working day, the average dB(A) during a 3-minute period was 46 (range 45 to 49). At the intersection of the road going into Pueblo Canyon with State Road 502, the average dB(A) during a 3-minute period was 60 (range 41 to 70).

LANL biologists conducted sound measurements at successive distances from an industrial area near a canyon rim, into the canyon, and to the opposite rim using a C-weighted decibel (dB(C) scale (Keller and Foxx 1997). Measurements of noise levels using the dB(C) scale are greater than if measured using the dB(A) scale. The average background noise on the mesa was 65.8 dB(C) [with a range of 43 to 81 dB(C)]. The average background noise in the canyon bottom was 62.3 dB(C) [with a range of 54 to 78 dB(C)]. The average background noise at the bottom of the north-facing slope was 53.8 dB(C) [with a range of 48 to 64 dB(C)]. Measurements were taken mid-day.

LANL biologists measured sound levels from various pieces of construction equipment used at LANL project sites over 5-minute intervals at distances of 6 to 31 m (20 to 100 ft) (Knight and Vrooman 1999). Average values ranged from 58.5 to 80.9 dB(A). Peak values ranged from 75.7 to 155.4 dB(A). Additional data were collected by other LANL operators on specific pieces of construction equipment and on the Security Computer Complex construction site fence perimeter at Technical Area 3 before and during construction (Knight and Vrooman 1999). The average noise level before construction began was 56.6 dB(A), and the average during construction was 82.1 dB(A).

LANL biologists conducted a series of sound measurements at LANL to investigate background noise levels around AEIs (Vrooman et al. 2000). Background noise levels were significantly higher in daytime than in nighttime. AEIs with greater than a 10 percent developed area in their buffers had significantly higher levels of background noise than undeveloped AEIs. The mean background sound level was 51.3 dB(A) in developed AEIs and 39.6 dB(A) in undeveloped AEIs. The LANL biological resources project review process uses the individual AEI background measurements from Vrooman et al. (2000) to screen project activities for increases more than 6 dB(A) above background.

LANL biologists took sound-level measurements of heavy equipment use associated with concrete recycling on Sigma Mesa at LANL in 2004 (Hansen 2004). At this location, background noise levels at two different locations were 55.2 and 58.8 dB(A). Operation of a dump truck hauling and dumping concrete increased noise levels above background by a mean of 22.7 dB(A) at 30 m (98 ft) and 2.4 dB(A) at 80 m (262 ft). Additional sound-level measurements were taken in the same general area on Sigma Mesa in 2005 as part of a biological assessment for the operation of an asphalt batch plant (Hansen 2005). Measurements were taken on the north rim of Mortandad Canyon (south of the asphalt batch plant at distances of approximately 30 to 122 m (100 to 400 ft), at the bottom of Mortandad Canyon approximately 183 to 244 m (600 to 800 ft) from the asphalt batch plant, and on the south rim of Mortandad Canyon approximately 305 m (1,000 ft) from the asphalt batch plant. Background noise levels at the various locations ranged from 41.1 to 48.7 dB(A). The only locations with increases greater than 3 dB(A) during operation of the asphalt batch plant were the locations on the north rim of Mortandad Canyon, within 122 m (400 ft) of the asphalt batch plant. Noise from the operation of the asphalt batch plant was not detected in the bottom of Mortandad Canyon or on the south rim.

LANL biologists took sound-level measurements around the LANL TA-3, Building 1076 with the heating, ventilation, and air conditioning (HVAC) system on and with it off (Hansen 2009). The area to the north of the TA-3, Building 1076 is developed; the area to the south is not. Background noise levels north of the facility ranged from 53.6 to 57.6 dB(A). Background noise levels south of the facility ranged

from 41.6 to 49.7 dB(A). Noise from the HVAC system was detected at 25 m (82 ft) from the facility on both sides but was not detected at 81 m (266 ft) on the north side or at 107 m (351 ft) on the south side.

In 2020, LANL biologists conducted noise-level assessments around TA-35 to support a biological assessment (LANL 2020). Noise levels were measured along core habitat for the Mexican Spotted Owl in the Sandia-Mortandad AEI in TA-35. The average across all locations and sampling time intervals in this study was 47.47 dB(A), which was 5.27 dB(A) lower than the Vrooman et al. (2000) average.

Overall, these studies appear to show that areas adjacent to or within developed areas or paved roads are likely to have daytime average background noise levels between 45 and 63 dB(A). Less-disturbed areas are likely to have average background noise levels between 37 and 50 dB(A).

Artificially Produced Light

No information is available on the effects of artificially produced light on Mexican Spotted Owls. Under the Los Alamos County Code, commercial site development plans are reviewed to ensure that lighting serves the intended use of the site while minimizing adverse impacts to adjacent residential property (Section 16-276). Section 16-276 of the County Code includes light-source measurement limitations by zoning district. The code allows offsite light to be 0.5 foot-candles (fc) in residential areas. By comparison, full moonlight measures 0.1 fc, and a crescent moon was measured at 0.01 fc. Table A-2 in the appendix presents preliminary light measurements in foot-candles.

Preliminary surveys were conducted for light levels within Los Alamos Canyon at the Omega Reactor (Keller and Foxx 1997). The Omega Reactor was brightly lit for purposes of security; therefore, total light intensity was greater than the average street lighting. Measurements were conducted at a light pole in an open parking lot at the reactor as the source. Trees did not obscure the area. Using the relationship of light intensity reducing as a square of the distance, calculations using the field data indicated that at 30 m (98 ft) from the source, the light levels would be equivalent or nearly equivalent to full moonlight.

3.0 AEI General Description for Mexican Spotted Owl

An AEI consists of two areas: a core and a buffer. The core of the habitat is defined as suitable canyon habitat from rim to rim and 100 m (328 ft) out from the top of the canyon rim. The buffer area is 400 m (1,312 ft) wide, extending outward from the edge of the core area. Although adult Mexican Spotted Owls might be found within their home range anytime throughout the year, the primary threat from disturbance to the owls is during the breeding season when owl pairs are tied to their nest sites; therefore, management of disturbance in Mexican Spotted Owl AEIs is concentrated on the breeding season.

3.1 *Method for Identifying a Mexican Spotted Owl AEI*

The original location of each Mexican Spotted Owl AEI was identified using a habitat model developed by Johnson (1998) that classified nesting and roosting habitat for Mexican Spotted Owls using topographic characteristics and vegetative diversity. LANL biologists compared the results from the Johnson (1998) model with a different model that identified slopes >40 percent in mixed conifer and ponderosa pine cover types at LANL. Areas identified from the Johnson (1998) model application to LANL that were greater than five contiguous 30 × 30 m (98 × 98 ft) pixels in size, were above 1,980 m (6,496 ft) in elevation, and that had mixed conifer or ponderosa pine forest cover were considered suitable

Mexican Spotted Owl habitat. Where suitable habitat was identified, AEI core area boundaries were established to include the canyons and 100 m (328 ft) outward from the canyon rims.

Following the Cerro Grande wildfire, an updated Mexican Spotted Owl habitat model was developed and refined for application on LANL property (Hathcock and Haarmann 2008). This model incorporated finer-scale vegetation characteristics into the Mexican Spotted Owl habitat quality assessment and was used to redelineate the boundaries of the Mexican Spotted Owl AEIs at LANL in 2005 following wildfire, drought, and a regional bark beetle outbreak (USFWS consultation number 22420-2006-I-0010).

The new core boundaries were delineated with an area approximately 0.4 km (0.25 mi) from the edge of the nearest suitable habitat, up and down canyon. Core boundaries were established along readily recognizable geologic features or anthropogenic features in the terrain wherever possible to facilitate the ease of identification of core boundaries when in the field.

3.2 *Location and Number of Mexican Spotted Owl AEIs*

There are currently five Mexican Spotted Owl AEIs on LANL property, each encompassing one or more canyons. In general, the AEI cores are centered in canyons on the western side of LANL. The canyons with AEIs are Cañon de Valle, Water, Pajarito, Los Alamos, Sandia, Mortandad, and Three-mile.

4.0 AEI Management

4.1 *Overview*

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to Mexican Spotted Owls from (1) habitat alterations that reduce habitat quality and (2) disturbance of breeding or potentially breeding owls. Habitat alterations are considered for all AEIs and for both core and buffer areas. Disturbance activities to owls are considered only for occupied AEIs and only for impacts on core areas. Developed areas (see Section I.3.1) that have ongoing baseline levels of activities and are not suitable habitat for Mexican Spotted Owls have different restrictions than undeveloped core or buffer areas; therefore, the location of the disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether the activity is allowable. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable.

4.2 *Definition and Role of Occupancy in AEI Management*

Occupancy simply refers to whether an AEI is occupied during a species' period of sensitivity. For Mexican Spotted Owls, the primary concern is to protect the owls from disturbance during the breeding season. Because individuals can colonize suitable habitat, all Mexican Spotted Owl AEIs are treated as though they are occupied from March 1 through August 31 or until surveys show an AEI to be unoccupied. Mexican Spotted Owl surveys are conducted from late March through June. In general, surveys in areas with ongoing or proposed projects are completed by May 15. If a nest is located during surveys, then the AEI can be treated as unoccupied except for the area within a 400 m (1,312 ft) radius of the nest site. Because owls are not as sensitive to disturbance during the non-breeding season, Mexican Spotted Owl AEIs are treated as unoccupied from September 1 to February 28.

The occupancy status of an AEI affects what activities are allowable in the AEI. Although activities that cause habitat alterations are restricted in all AEIs, disturbance activities are restricted only in occupied

AEIs. The Activity Table (Table II-1, Section II.4.5.2) provides dates and levels of allowable disturbance activities within occupied Mexican Spotted Owl AEIs under the guidelines of this site plan. Contact a LANL biologist to find out the current occupancy status of an AEI (https://int.lanl.gov/environment/bio/index.shtml).

4.3 *Introduction to AEI Management Guidelines*

Sections 4.4 and II.4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. Section II.4.4 describes what and where habitat alterations are allowed under the guidelines of this site plan. Section II.4.5 describes what, when, and where disturbance activities are allowed in occupied AEIs under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for ESA compliance. This site plan provides only guidelines for Mexican Spotted Owl AEIs. If an activity is desired in an area with overlapping AEIs, all applicable site plans must be consulted. AEI maps show the location of all AEIs in an area. Section II.4.6 describes management practices that should be applied when working or considering work in an AEI. LANL biologists are available to answer questions and provide advice (https://int.lanl.gov/environment/bio/index.shtml).

4.4 *Definition of and Restrictions on Habitat Alterations*

4.4.1 Definition of Habitat Alterations

Habitat alteration includes any action that alters the soil structure, vegetative components necessary to the species, prey quality and quantity, water quality, hydrology, or noise or light levels in undeveloped areas of an AEI. Long term means the alteration lasts for more than 1 year. For physical disturbances, in general, any activity that can be accomplished by one person with a hand tool generally is not considered habitat alteration; any activity that requires mechanized equipment on a landscape is habitat alteration. An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core.

The habitat components most important to Mexican Spotted Owls include vegetative structure, food quality and quantity, and disturbance levels, including noise and light. The forest structure within a canyon designated as a Mexican Spotted Owl AEI is important because it provides roost sites and suitable habitat for nesting and foraging. Trees along the canyon rim are used for foraging and territorial calling, and they shelter the canyon interior from light and noise disturbances.

A long-term change in light or noise levels within the undeveloped core of an AEI is considered to be a habitat alteration if it increases average noise levels by >6 dB(A) during any portion of the 24-hour day or if it increases average light levels by >0.05 fc at night. Changes in noise and light levels are measured at the core area boundary if the source is outside the core area or at 10 m (33 ft) from the source if the source is inside the undeveloped core area. Impacts of changes in developed areas on undeveloped cores are measured at the developed area boundary if it is within the core or at the core area boundary if the developed area is outside of the core.

4.4.2 Fuels Management Practices to Reduce Wildfire Risk

The recovery plan for the Mexican Spotted Owl lists stand-replacing wildfires as a primary threat to their habitat and encourages land managers to reduce fuel levels and abate fire risks in ways compatible with

owl presence on the landscape (USFWS 1995). Within undeveloped core areas, on slopes >40 percent, in the bottoms of steep canyons, and within 30 m (100 ft) of a canyon rim, thinning of trees <22 centimeters (cm; 9 inches [in.]) diameter at breast height, treatment of fuels, and prescribed and natural prescribed fires are allowed. Exceptions that allow trees >22 cm (9 in.) to be thinned within 30 m (100 ft) of buildings are granted to protect facilities. Large logs (>30 cm [11.8 in.] midpoint diameter) and snags should be retained. Thinning within core areas that do not meet the characteristics listed above and in buffer areas may include trees of any size to achieve 8 m (25 ft) spacing between tree crowns; however, clear cutting is not allowed in undeveloped core areas.

For health and safety reasons, any trees within 30 m (100 ft) of buildings but outside a developed area may be thinned to achieve 8 m (25 ft) spacing between crowns. Habitat alterations, including thinning, are not restricted in developed areas; however, LANL biologists encourage the retention of trees and snags along canyon rims if the rim is in a developed area. Because of the extreme fire danger associated with firing sites and the potential impact of a fire on Mexican Spotted Owl habitat, firing sites and burn areas are treated separately for the purposes of fuels management. Trees within 380 m (1,246 ft) of firing sites and burn areas in both core and buffer areas may be thinned to a 15-m (49-ft) spacing between trees everywhere except on slopes >40 percent or in the bottoms of steep canyons. Any tree in excess of 22 cm (9 in.) diameter at breast height within 380 m (1,246 ft) of a firing site may be delimbed to a height of 2 m (6 ft) to help prevent crown fires.

In historically occupied core areas, fuels treatment may not exceed 10 percent of the undeveloped core area and is not allowed within 400 m (1,312 ft) of nesting areas. In occupied core areas, forest management activities must take place during the nonbreeding season (September 1 to February 28) (USFWS 1995).

4.4.3 Utility Corridors

Habitat alterations, such as cutting down trees that threaten power lines, are allowed within 8 m (26 ft) of either side of an existing utility line in all areas of an AEI (LANL 2020). New utility lines and utility lines that require clearance of a right-of-way greater than 16 m (52 ft) total must be individually reviewed for ESA compliance. Disturbance activities must follow the guidelines given in the Activities Table (Table II-1, Section II.4.5.2) for occupied AEIs.

4.4.4 Restrictions on Habitat Alterations

Habitat alterations other than the fuels management practices and utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated for ESA compliance. Habitat alterations in undeveloped buffer areas other than the fuels management activities and utility corridor maintenance described above are restricted to 2 ha (5 ac) in area per project and are subject to other restrictions, including light and noise effects in the core (see Section II.2.2.3). Projects in the buffer area larger than 2 ha (5 ac) in size will require individual ESA compliance review. A cumulative maximum area may be developed in each AEI's buffer. Once that cumulative area is reached, all habitat alterations in a buffer will require individual ESA reviews for compliance.

4.5 *Definition of and Restrictions on Disturbance Activities*

4.5.1 Definitions of Disturbance Activities

LANL biologists considered six categories of activities that might cause disturbance in an AEI. Most of the categories were first identified in the document "Peregrine Falcon Habitat Management in the National Forests of New Mexico," prepared for the United States Forest Service (Johnson 1994). LANL biologists added explosives detonation, other light production, and other noise production to provide the most comprehensive list of activities possible, thereby reducing the need for individual review of activities for ESA compliance. The categories of activities are people, vehicles, aircraft, other light production, other noise production, and explosives detonation. LANL biologists defined low, medium, and high levels of impact for these activities except for explosives detonation. Activity levels for explosives detonation have been designed to follow the guidelines agreed upon by LANL, DOE, and USFWS in the DARHT biological assessment (Keller and Risberg 1995). Restrictions on explosives detonation are described in the definition of the activity but are not included in the Activity Table (Table II-1, Section II.4.5.2). These six categories of activities are restricted only in AEIs that are classified as occupied.

People—includes any entry of people into an AEI on foot

- Low impact is the presence of three or fewer people per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of people or the duration criteria.
- High impact is the exceedance of both the number of people and the duration criteria.

Vehicles—includes the entry of any two-axle highway vehicle, all-terrain vehicle, or motorized machinery into an AEI by any route other than a paved road or an improved gravel road

- Low impact is the presence of two or fewer vehicles per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of vehicles or the duration criteria.
- High impact is the exceedance of both the number of vehicles and the duration criteria.

Aircraft—includes the operation of any aircraft below an elevation of 600 m (2,000 ft) above the highest ground level in the local vicinity

- Low impact is the presence of one single-engine airplane and the duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of aircraft or the duration criteria.
- High impact is the exceedance of both the number of aircraft and the duration criteria.

Any use of helicopters, jet airplanes, and propeller airplanes with two or more engines is classified as medium impact or above, depending on duration.

Other Light Production—includes any activity not previously listed that causes additional light to occur in an AEI core area. For example, plans for construction of a new building at the edge of a developed area may call for lighting at night to facilitate nighttime work that impacts an undeveloped core area.

- Low impact is the increase of light intensity by ≤0.05 fc and a duration of 1 night or less per project per breeding season.
- Medium impact is the exceedance of either the intensity or duration criteria.
- High impact is the exceedance of both the intensity and duration criteria.

Measurements for increases in light are taken at the AEI core area boundary closest to the light source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Light measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

Other Noise Production—includes any activity not previously listed except for explosives detonation that causes additional noise to occur in an AEI. For example, operation of machinery creates noise.

- Low impact is increasing noise levels in an AEI core by 6 dB(A) or less for 1 day or less per project per breeding season.
- Medium impact is the exceedance of either the level or the duration criteria.
- High impact is the exceedance of both the level and the duration criteria.

Measurements for increases in noise are taken at the AEI core boundary closest to the noise source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Noise measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

Explosives Detonation—includes the use of high explosives for any purpose. LANL biologists did not define low, medium, and high levels of this activity because of the difficulty of determining levels for a shot before actually doing the shot. For the purpose of explosives detonation near Mexican Spotted Owl AEIs, occupied habitat is defined as the area within 400 m (1,312 ft) of the current year's nest/roost sites or the previous year's nest site if a current site has not been identified. No explosives detonation will take place within 400 m (1,312 ft) of nest/roost sites in occupied habitat between March 1 and August 31. Explosives detonation at night at sites within 400 to 800 m (1,312 to 2,624 ft) of a nest site in occupied habitat is restricted to once per month from March 1 and August 31. No restrictions exist on daytime explosives testing between 400 and 800 m (1,312 to 2,624 ft), and no restrictions exist between September 1 and February 28 or in unoccupied habitat. Explosives detonation adjacent to AEIs that have not previously been recorded by LANL biologists as occupied will have no restrictions unless surveys detect Mexican Spotted Owls. Explosives tests not allowed under the guidelines of this site plan must be individually reviewed for ESA compliance.

4.5.2 Activity Table

The dates shown in the Activity Table (Table II-1) are the dates between which the activity in the row is restricted under the guidelines of this site plan. All AEIs are considered occupied from March 1 to August 31 or until surveys show an AEI to be unoccupied. If owls are detected, AEIs are considered occupied

until August 31 within 400 m (1,312 ft) of the nest site. Consult with LANL biologists to find out occupancy status of AEIs and what locations are within 400 m (1,312 ft) of nest sites (https://int.lanl.gov/environment/bio/index.shtml).

Table II-1. Restrictions on Activities in Undeveloped Occupied Mexican Spotted Owl AEIs

Levels of Impact	Core	Buffer
People		
Low	No Restrictions*	No Restrictions
Medium	March 1 to August 31	No Restrictions
High	March 1 to August 31	No Restrictions
Vehicles		
Low	No Restrictions	No Restrictions
Medium	March 1 to August 31	No Restrictions
High	March 1 to August 31	No Restrictions
Aircraft		
Low	March 1 to August 31	No Restrictions
Medium	March 1 to August 31	March 1 to May 15
High	March 1 to August 31	March 1 to August 31
Other Light Production		
Low	March 1 to August 31	No Restrictions**
Medium	March 1 to August 31	No Restrictions**
High	March 1 to August 31	No Restrictions**
Other Noise Production		
Low	March 1 to August 31	No Restrictions**
Medium	March 1 to August 31	No Restrictions**
High	March 1 to August 31	No Restrictions**
Explosives Detonation (see text in Section 4.5.1)		

* Entry is restricted in core areas that are occupied within 400 m (1,312 ft) of the nest site from March 1 to August 31. If the current nest has not been located, entry is restricted within 400 m (1,312 ft) of the previous year's nest site.

** Noise or light production in the buffer is restricted if the activity would violate core area restrictions on noise or light.

4.6 *Protective Measures*

This section provides a list of management practices to apply in Mexican Spotted Owl AEIs.

- Timing of projects must take into account that projects in core areas or projects that violate restrictions for occupied buffer areas must stop on February 28 of each year until occupancy status of the AEI is determined.
- Make every reasonable effort to reduce the noise from explosives testing within 800 m (2,624 ft) of occupied habitat. Methods to reduce noise could include contained shots, noise shields in the direction of AEI cores, etc. For night shots, every reasonable effort should be made to limit the amount of light directed into AEI core areas.
- Install signs on dirt roads and trails that lead into AEIs, posting them as restricted access areas and providing a contact number for access restrictions.

- Keep disturbance and noise to a minimum.
- Avoid unnecessary disturbance to vegetation (e.g., excessive parking areas or equipment storage areas, off-road travel, materials storage areas, crossing of streams or washes).
- Avoid removal of vegetation along drainage systems and stream channels.
- Avoid all vegetation removals not absolutely necessary.
- Employ appropriate erosion and runoff controls to reduce soil loss. The controls must be put in place and periodically checked throughout the life of projects.
- Revegetate all exposed soils as soon as feasible after construction to minimize erosion.
- Focus development away from undeveloped areas on the western end of the Los Alamos Canyon AEI.

5.0 Allowable Habitat Alteration in the Buffer Areas

The following quantifications of development and guidance for allowable habitat alteration in buffer areas were published and consulted on in the 1999 version of the HMP. Most AEIs changed in dimensions during the 2005 redelineation of the habitats, and many have experienced additional development under past consultations. Many projects were reviewed and received USFWS concurrence between 1999 and 2017.

The current development status for each of the AEIs is at the end of each AEI description. This section was updated in the 2022 revision. The original framework for the HMP included allowable levels of future development in buffer habitat for each AEI. The AEI boundaries have changed over time, so the percent of allowable development was used to compare 1999 values to 2022 levels.

Cañon de Valle

In 1999, 16.3 ha (40.3 ac) of the core was developed, and 52.2 ha (129 ac) of the buffer was developed. For this AEI, it was recommended that only an additional 25.30 ha (62.5 ac) of the AEI buffer be developed, which is 9.7 percent. The 1999 HMP stated that once this cap is reached or a large-scale project is proposed, additional consultation with USFWS would be required. By 2011, 28 ha (69.2 ac) of the core and 84 ha (207.5 ac) of the buffer was developed, with most of the changes due to consultations. The 2017 redelineation of the lower Water Canyon AEI resulted in another reduction of 69 ha (170 ac). The current size of this AEI is 277 ha (685 ac) of core and 524 ha (1,295 ac) of buffer habitat. Of that, 18.6 ha (46 ac) of the current core is developed, and 80.5 ha (199 ac) of the current buffer is developed. As of this 2022 HMP revision, 15.47 percent of the buffer is developed. Any future development in buffer would require a consultation.

Pajarito

In 1999, 6.7 ha (16.5 ac) of the core was developed, and 75.1 ha (186.5 ac) of the buffer was developed. For this AEI, it was recommended that only an additional 35 ha (86.4 ac) of the buffer be developed, which is 21.8 percent. The 1999 HMP stated that once the cap is reached or a single large-scale project is proposed, additional consultation with the USFWS would be required. By 2011, 27 ha (66.7 ac) of the core and 89 ha (220 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 236 ha (585 ac) of core and 449 ha (1,111 ac) of buffer habitat. Of that, 29.5 ha

(73 ac) of the current core is developed, and 101.5 ha (251 ac) of the current buffer is developed. As of this 2022 HMP revision, 22.6 percent of the buffer is developed. Any future development in buffer would require a consultation.

Los Alamos

In 1999, 77.16 ha (190 ac) of the core was developed, and 167.2 ha (413.1 ac) of the buffer was developed, which is 9.97 percent. Because this AEI is heavily developed, additional development was restricted to a few selected areas within the buffer. By 2011, 94 ha (232.2 ac) of the core and 181 ha (447.3 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 325 ha (805 ac) of core and 535 ha (1,323 ac) of buffer habitat. Of that, 125.4 ha (310 ac) of the current core is developed, and 347.2 ha (858 ac) of the current buffer is developed. These increases are largely due to large tracts of land that were transferred to Los Alamos County through the Land Conveyance and Transfer project (USFWS consultation number 2-22-01-F-634). As of this 2022 HMP revision, 64.8 percent of the buffer is developed. Any future development in buffer would require a consultation.

Sandia-Mortandad

In 1999, 29 ha (71.7 ac) of the core was developed, and 75.1 ha (185.6 ac) of the buffer was developed. For this AEI, it was recommended that only an additional 38.1 ha (94.1 ac) of the buffer be developed, which is 20.2 percent, before additional USFWS consultations take place. By 2011, 45 ha (111.2 ac) of the core and 83 ha (205.1 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 270 ha (669 ac) of core and 371 ha (918 ac) of buffer habitat. Of that, 48.5 ha (120 ac) of the current core is developed, and 101.2 ha (250 ac) of the current buffer is developed. As of this 2022 HMP revision, 27.2 percent of the buffer is developed. Any future development in buffer would require a consultation.

Three-mile

In 1999, 3.8 ha (9.4 ac) of the core was developed, and 21.5 ha (51.1 ac) of the buffer was developed. For this AEI, it was recommended that only 64.3 ha (158.8 ac) additional area of buffer be developed, which is 24.9 percent, before additional USFWS consultations take place. By 2011, 12 ha (29.6 ac) of the core and 37 ha (91.4 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 131 ha (325 ac) of core and 295 ha (730 ac) of buffer habitat. Of that, 7.2 ha (18 ac) of the current core is developed, and 32.3 ha (80 ac) of the current buffer is developed. As of this 2022 HMP revision, 10.9 percent of the buffer is developed. Additionally, this AEI has been occupied since 2007.

III. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE SOUTHWESTERN WILLOW FLYCATCHER

1.0 Species Description—Southwestern Willow Flycatcher

1.1 *Status*

In 1995, the USFWS designated the Southwestern Willow Flycatcher as a federally endangered species (60 FR 10693). The USFWS most recently designated critical habitat for the Southwestern Willow Flycatcher in 2013 (78 FR 343). The most recent recovery plan for the Southwestern Willow Flycatcher was published in 2002 (USFWS 2002).

1.2 *General Biology*

The Southwestern Willow Flycatcher is one of four subspecies of the Willow Flycatcher. The historic range of the Southwestern Willow Flycatcher included Arizona, California, Colorado, New Mexico, Texas, Utah, and Mexico. Currently, this flycatcher breeds in riparian habitats from southern California to Arizona and New Mexico, plus southern Colorado, Utah, Nevada, and far western Texas. In winter, it is found in southern Mexico, Central America, and northern South America (USFWS 2002).

Southwestern Willow Flycatchers are present in New Mexico from early May through mid-September and breed from late May through late July (Finch and Kelly 1999; USFWS 2002; Yong and Finch 1997). The flycatcher's nesting cycle is approximately 28 days. Three or four eggs are laid at 1-day intervals, and incubation begins when the clutch is complete. The female incubates eggs for approximately 12 days, and the young fledge about 13 days after hatching. Southwestern Willow Flycatchers typically raise one brood per year (USFWS 2002). Because arrival dates vary, northbound migrant Willow Flycatchers (of all subspecies) pass through areas where Southwestern Willow Flycatchers have already begun nesting. Similarly, southbound migrants (of all subspecies) in late July and August might occur where Southwestern Willow Flycatchers are still breeding; therefore, it is only during a short period of the breeding season (approximately June 15 through July 20) that a Willow Flycatcher seen within Southwestern Willow Flycatcher range is probably of that subspecies (USFWS 2002).

The Southwestern Willow Flycatcher nests only along rivers, streams, and other wetlands. It is found in close association with dense stands of willows (*Salix spp.*), arrowweed (*Pluchea spp.*), buttonbush (*Cephalanthus spp.*), tamarisk (*Tamarix spp.*), Russian olive (*Eleagnus angustifolia L.*), and other riparian vegetation, often with a scattered overstory of cottonwood (*Populus spp.*) (USFWS 2002). The size of vegetation patches or habitat mosaics used by Southwestern Willow Flycatchers varies considerably and ranges from as small as 0.8 ha (1.9 ac) to several hundred hectares (Hatten and Paradzick 2003). The Southwestern Willow Flycatcher nests in thickets of trees and shrubs approximately 2 to 15 m (6 to 49 ft) tall, with a high percentage of canopy cover and dense foliage from 0 to 4 m (0 to 13 ft) above ground. Regardless of the plant species composition or height, occupied sites always have dense vegetation in the patch interior (Allison et al. 2003; USFWS 2002).

The Southwestern Willow Flycatcher is an insectivore. It forages within and occasionally above dense riparian vegetation, taking insects on the wing and gleaning them from foliage. The flycatcher's prey includes flies, bees, wasps, ants, beetles, moths, butterflies, grasshoppers, crickets, dragonflies, damselflies, and spiders (Durst et al. 2008; Wiesenborn and Heydon 2007).

1.3 *Threats*

The current population of Southwestern Willow Flycatchers in the United States occupies an estimated 1,214 territories (Durst et al. 2006). The distribution of breeding groups is highly fragmented, with groups often separated by considerable distances. This subspecies has suffered declines attributed to extensive loss of its cottonwood-willow habitat and to poor productivity resulting from brood parasitism by Brown-headed Cowbirds (*Molothrus ater)* (USFWS 2002).

2.0 Impact of Human Activities

2.1 *Introduction*

The primary threats to the Southwestern Willow Flycatcher on LANL property are (1) impacts on habitat quality from LANL operations and (2) disturbance of nesting flycatchers. This section includes a review and summary of the known effects of various types of human activities to the Southwestern Willow Flycatcher and an overview of the current levels of activities at LANL within species habitat.

2.2 *Impacts on Habitat Quality*

2.2.1 Development

Throughout the Southwest, riparian habitats are rare and tend to be small and separated by vast expanses of arid lands. The Southwestern Willow Flycatcher has experienced extensive habitat loss and modification resulting from urban and agricultural development, water diversion and impoundment, channelization of waterways, livestock grazing, off-road vehicle and other recreational uses, and hydrological changes that result from these and other land uses (USFWS 2002). River and stream impoundments, groundwater pumping, and overuse of riparian areas have altered as much as 90 percent of the Southwestern Willow Flycatcher's habitat (USFWS 2002). Loss of cottonwood-willow riparian forests has had widespread impact on the distribution and abundance of bird species associated with that forest. Development may be tolerated if the habitat is left intact.

Because watercourses at LANL tend to be intermittent to ephemeral, riparian habitat is uncommon. Extensive degradation of the riparian zone has occurred along the Rio Grande, caused by feral-cattle grazing and flood-control operations at Cochiti Lake. Other riparian/wetland areas on LANL property are associated with canyon bottoms, the most significant being the Pajarito wetlands in the lower end of Pajarito Canyon. A major paved road parallels the wetlands area in Pajarito Canyon.

2.2.2 Ecological Risk

There is no specific information on the impact of chemicals on the Southwestern Willow Flycatcher.

Ecorisk Assessment

LANL subject matter experts completed two ecological risk assessments between 1997 and 2009 that included the Southwestern Willow Flycatcher. The ecological risk assessment process involves using computer modeling to assess potential effects to animals from chemicals of potential concern that have been detected in the environment. The ecological risk assessments concluded that, in general, there is a small potential for effects to Southwestern Willow Flycatcher from chemicals of potential concern (Gonzales et al. 1998; Gonzales et al. 2009).

An ecotoxicological risk assessment for the Southwestern Willow Flycatcher, centered on the Pajarito wetlands, found that between 7 and 16 percent of 100 hypothetical nest sites examined had hazard indices >1.0 and <10.0, depending on the foraging scenario (Gonzales et al. 1998). This result indicates a small potential for impacts from chemicals. The primary chemicals that drove the risk scenario were pentachlorophenol, aluminum, radium-226, calcium, and thorium-228. Aluminum, radium, and thorium are naturally occurring substances in northern New Mexico.

2.2.3 Disturbance

Pedestrians and Vehicles

No specific information is available on the reactions of Southwestern Willow Flycatchers to pedestrians and vehicles. The recovery plan for the Southwestern Willow Flycatcher recommends providing protected areas, reducing unpredictable activities, providing visual barriers, and reducing noise disturbance (USFWS 2002).

Aircraft

No specific information is available on the reaction of Southwestern Willow Flycatchers to aircraft.

LANL lies within restricted airspace, and planes infrequently fly less than 609 m (2,000 ft) above ground level. The County of Los Alamos operates an airport along the northern edge of LANL. The airport is located on the southern rim of Pueblo Canyon. Most flights approach and depart to the east of the airport, over the Rio Grande.

Explosives

No specific information is available on the reaction of Southwestern Willow Flycatchers to explosives detonation. The Southwestern Willow Flycatcher AEI is not located close to any explosives-testing sites at LANL.

Other Sources of Noise

LANL biologists do not have good information on the effects of noise, including machinery operation, on Southwestern Willow Flycatchers; however, Southwestern Willow Flycatchers are probably not as sensitive to disturbance as some other threatened or endangered species (USFWS 2002). For a description of noise levels at LANL, see Section II.2.2.3.

Artificially Produced Light

No information is available on the effects of artificially produced light on Southwestern Willow Flycatchers. Under the Los Alamos County Code, commercial site development plans are reviewed to ensure that lighting serves the intended use of the site while minimizing adverse impacts to adjacent residential property (Section 16-276). Section 16-276 of the County Code includes light-source measurement limitations by zoning district. The code allows offsite light to be 0.5 fc in residential areas. By comparison, full moonlight measures 0.1 fc, and a crescent moon was measured at 0.01 fc.

3.0 AEI General Description for the Southwestern Willow Flycatcher

The AEI consists of two types of areas: core and buffer. Core areas represent wetland areas with suitable vegetation for nesting, primarily dense willows. The buffer area is the area within 100 m (328 ft) of core areas. The Southwestern Willow Flycatcher AEI on LANL property consists of two separate core areas. For purposes of this site plan, both core areas and associated buffers are considered one AEI unit.

3.1 *Method for Identifying the Southwestern Willow Flycatcher AEI*

The core areas were defined by the presence of riparian habitat and suitable wetland vegetation. These areas were identified in 1994 during a survey of wetlands at LANL and mapped using a global positioning system receiver. Wetlands without stands of dense willows at least 2 m (7 ft) tall and 30 m (98 ft) wide were not included in the AEI. The buffer area is the area within 100 m (328 ft) of the core areas.

3.2 *Location of the Southwestern Willow Flycatcher AEI*

There is one Southwestern Willow Flycatcher AEI on LANL property. It is composed of two core areas with associated buffers. The AEI core areas are located in the bottom of Pajarito Canyon, on the eastern side of LANL adjacent to Pajarito Road and State Road 4.

4.0 AEI Management

4.1 *Overview*

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to the Southwestern Willow Flycatcher from (1) habitat alterations that reduce habitat quality and (2) disturbance of breeding or potentially breeding flycatchers. Habitat alterations are considered for all AEIs and for both core and buffer areas. Disturbance activities to flycatchers are considered only for occupied AEIs and only for impacts on core areas. Developed areas (see I.3.1 that have ongoing baseline levels of activities and are not suitable habitat for Southwestern Willow Flycatchers have different restrictions than undeveloped core or buffer areas; therefore, the location of the disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether the activity is allowable. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable. Protective measures are described as management practices that should be followed when working in AEIs.

4.2 *Definition and Role of Occupancy in AEI Management*

Occupancy simply refers to whether an AEI is occupied during a species' period of sensitivity. For Southwestern Willow Flycatchers, LANL biologists are primarily concerned with protecting the birds from disturbance during the breeding season. Because individuals can colonize suitable habitat, the Southwestern Willow Flycatcher AEI is treated as though it is occupied from May 15 through September 15 or until surveys show an AEI to be unoccupied. Southwestern Willow Flycatcher surveys are conducted during May, June, and July. Because Southwestern Willow Flycatchers migrate south for the winter, the AEI is treated as unoccupied from September 16 to May 14.

The occupancy status of an AEI affects what activities are allowable in the AEI. Although activities that cause habitat alterations are always restricted, disturbance activities are restricted only in occupied AEIs. The Activity Table (Table II-1, Section II.4.5.2) provides dates and levels of disturbance activities allowable in the occupied Southwestern Willow Flycatcher AEI under the guidelines of this site plan. The dates in Table II-1 indicate the period during which the activity is restricted. Contact a LANL biologist to find out the current occupancy status of an AEI (https://int.lanl.gov/environment/bio/index.shtml).

4.3 *Introduction to AEI Management Guidelines*

Sections II.4.4 and II.4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. The flowchart (see Figure I-1) provides a quick reference that should be used to determine if a project or activity will affect an AEI and what sections of the site plan need to be consulted. The section on habitat alterations (Section II.4.4) describes what and where habitat alterations are allowed under the guidelines of this site plan. Section II.4.5 and Table II-1 describe what, when, and where disturbance activities are allowed in occupied AEIs under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for ESA compliance. This site plan provides only guidelines for the Southwestern Willow Flycatcher AEI. If an activity is desired in an area that has overlapping AEIs, all applicable site plans must be consulted. Section II.4.6 describes management practices that should be applied when working or considering work in an AEI. LANL biologists are available to help interpret site plans and answer questions (https://int.lanl.gov/environment/bio/index.shtml).

4.4 *Definition of and Restrictions on Habitat Alterations*

4.4.1 Definition of Habitat Alterations

Habitat alteration includes any action that, over the long term, alters the soil structure, vegetative components necessary to the species, prey quality and quantity, water quality, hydrology, or noise or light levels in undeveloped areas of an AEI. Long term means that the alteration lasts for more than 1 year. Habitat alteration includes any activity that removes vegetative components important to the Southwestern Willow Flycatcher (primarily trees and shrubs). An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core.

The habitat components most important to flycatchers include vegetative structure, food quality and quantity, and disturbance levels, including noise and light. The thickets of certain trees and shrubs along wetlands are important because they provide roost sites and a suitable habitat for nesting and foraging.

4.4.2 Fuels

Management Practices to Reduce Wildfire Risk

Thinning within undeveloped buffer areas may include trees of any size to achieve 7.6 m (25 ft) spacing between tree crowns; however, clear cutting is not allowed in undeveloped buffer areas. No fuels management practices are allowed in core areas. Habitat alterations, including thinning, are not restricted in developed areas.

4.4.3 Utility Corridors

Habitat alterations, such as cutting down trees that threaten power lines, are allowed within 8 m (26 ft) of either side of an existing utility line in all areas of an AEI (LANL 2020). New utility lines and utility lines that require clearance of a right-of-way greater than 16 m (52 ft) total must be individually reviewed for ESA compliance. Disturbance activities must follow the guidelines given in the Activities Table (Table II-1, Section II.4.5.2) for occupied AEIs.

4.4.4 Restrictions on Habitat Alterations

Habitat alterations other than the utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. Habitat alteration in buffers is limited. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated for ESA compliance.

4.5 *Definition of and Restrictions on Disturbance Activities*

4.5.1 Definition of Disturbance Activities

LANL biologists considered five categories of activities that might cause disturbance in an AEI. Most of the categories were first identified in the document "Peregrine Falcon Habitat Management in the National Forests of New Mexico," prepared for the United States Forest Service (Johnson 1994). Other light production and other noise production were included to provide the most comprehensive list of activities possible, reducing the need for individual review of activities for ESA compliance. The categories of activities are people, vehicles, aircraft, other light production, and other noise production. The impact of explosives detonation on this species is not considered here because no explosives-testing sites are located within 2 km (1.25 mi) of potential nesting habitat. Low, medium, and high levels of impact for these activities are considered here. The following categories of activities are restricted only in AEIs that are classified as occupied.

People—includes any entry of people into an AEI on foot

- Low impact is the presence of three or fewer people per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of people or the duration criteria.
- High impact is the exceedance of both the number of people and the duration criteria.

Vehicles—includes the entry of any two-axle highway vehicle, all-terrain vehicle, or motorized machinery into an AEI by any route other than a paved road or an improved gravel road

- Low impact is the presence of two or fewer vehicles per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of vehicles or the duration criteria.
- High impact is the exceedance of both the number of vehicles and the duration criteria.

Aircraft—includes the operation of any aircraft below an elevation of 600 m (2,000 ft) above the highest ground level in the local vicinity

- Low impact is the presence of one single-engine airplane and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of aircraft or the duration criteria.
- High impact is the exceedance of both the number of aircraft and the duration criteria.

Any use of helicopters, jet airplanes, and propeller airplanes with two or more engines is classified as medium impact or above, depending on duration.

Other Light Production—includes any activity not previously listed that causes additional light to occur in an AEI core area (e.g., plans for construction of a new building at the edge of a developed area may call for lighting at night to facilitate nighttime work that impacts an undeveloped core area).

- Low impact is the increase of light intensity by up to 0.05 fc and a duration of 1 night or less per project per breeding season.
- Medium impact is the exceedance of either the intensity or duration criteria.
- High impact is the exceedance of both the intensity and duration criteria.

Measurements for increases in light are taken at the AEI core area boundary closest to the light source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Light measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

Other Noise Production—includes any activity not previously listed except for explosives detonation that causes additional noise to occur in an AEI. For example, operation of machinery causes noise.

- Low impact is increasing noise levels in an AEI core by 6 dB(A) or less for 1 day or less per project per breeding season.
- Medium impact is the exceedance of either the level or the duration criteria.
- High impact is the exceedance of both the level and the duration criteria.

Measurements for increases in noise are taken at the AEI core boundary closest to the noise source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Noise measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

4.5.2 Activity Table

The dates shown in the Activity Table (Table III-1) are the dates between which the activity in the row is restricted under the guidelines of this site plan. Disturbance activities are of concern only when Southwestern Willow Flycatchers occupy an AEI. The AEI is always considered occupied between May 15 and September 15 or until surveys show the AEI to be unoccupied. The Southwestern Willow Flycatcher AEI is always considered unoccupied between September 16 and May 14, when flycatchers have migrated for the winter. For occupancy status of an AEI after completion of surveys, contact a LANL biologist (https://int.lanl.gov/environment/bio/index.shtml).

Table III-1. Restrictions on Activities in Undeveloped Occupied

Levels of Impact	Core	Buffer
People		
Low	No Restrictions	No Restrictions
Medium	May 15 to August 15	No Restrictions
High	May 15 to September 15	No Restrictions
Vehicles		
Low	May 15 to September 15	No Restrictions
Medium	May 15 to September 15	No Restrictions
High	May 15 to September 15	No Restrictions
Aircraft		
Low	No Restrictions	No Restrictions
Medium	May 15 to August 15	May 15 to August 15
High	May 15 to September 15	May 15 to August 15
Other Light/Noise Production		
Low	May 15 to September 15	No Restrictions*
Medium	May 15 to September 15	No Restrictions*
High	May 15 to September 15	No Restrictions*

*Noise or light production in the buffer is restricted if the activity would violate core area restriction on noise or light.

4.6 *Protective Measures*

This section provides a list of management practices to apply in the AEI.

- No wetland vegetation will be removed outside of developed areas.
- Employ appropriate erosion and runoff controls to reduce soil loss.
- Avoid unnecessary disturbance to vegetation (e.g., excessive parking areas or equipment storage areas, off-road travel, materials storage areas, crossing of streams or washes).
- Avoid removal of vegetation along drainage systems and stream channels.
- Avoid all vegetation removals not absolutely necessary.
- Appropriate erosion controls must be put in place and periodically checked throughout the life of any projects.
- Revegetate all exposed soils as soon as feasible after disturbance to minimize erosion.

5.0 Southwestern Willow Flycatcher AEI Description

5.1 *Pajarito Canyon Southwestern Willow Flycatcher AEI*

5.1.1 Allowable Habitat Alteration in the Buffer Area

Because the purpose of the buffer area is to help maintain the core area as suitable Southwestern Willow Flycatcher habitat, habitat alteration in the buffer area will be extremely limited. Restrictions on habitat alteration are relaxed in two areas:

- The mesa top of Mesita del Buey. This mesa top can be developed if restrictions on impacts to the core area are met.
- Pajarito Road within the AEI. Mowing of upland vegetation is allowed up to 5 m (15 ft) from Pajarito Road or to the fence if the fence is within 9 m (30 ft). Vegetation must cover the roadsides to prevent sediment runoff, so mowed plants should be at least 5 cm (2 in) high. LANL biologists encourage the growth of willow throughout the AEI—even the area along Pajarito Road—to enhance habitat. If it is absolutely necessary to remove new willow growth (i.e., to improve visibility for human safety) within this area, LANL biologists recommend that only willows at or above the level of the roadway surface be mowed.

IV. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE JEMEZ MOUNTAINS SALAMANDER

1.0 Species Description—Jemez Mountains Salamander

1.1 *Status*

In 2006, the Jemez Mountains Salamander was listed in New Mexico as endangered under the Wildlife Conservation Act of New Mexico (NMDGF 2006). In September 2012, the USFWS proposed the Jemez Mountains Salamander as endangered under the ESA (77 FR 56481), and the final listing as endangered occurred on September 10, 2013 (78 FR 55599).

1.2 *General Biology*

The Jemez Mountains Salamander is endemic to the Jemez Mountains of north-central New Mexico and is found in Los Alamos, Rio Arriba, and Sandoval counties (Stebbins and Riemer 1950). It is one of two endemic plethodontid salamanders that occurs in New Mexico, predominantly at elevations between 2,130 to 3,430 m (6,988 to 11,254 ft) in mixed-conifer forest with greater than 50 percent canopy cover that consists mainly of Douglas fir (*Pseudotsuga menziesii [Mirb.] Franco*), blue spruce (*Picea pungens Engelm.*), Engelmann spruce (*Picea engelmannii Parry ex Engelm.*), white fir (*Abies concolor [Gord. & Glend.] Lindl. ex Hildebr.*), limber pine (*Pinus flexilis James*), ponderosa pine, and quaking aspen (*Populus tremuloides Michx.*). The ground surface in forest areas has (a) moderate-to-high volumes of large fallen trees and other woody debris, especially coniferous logs at least 25 cm (10 in) in diameter, particularly Douglas fir, which are in contact with the soil in varying stages of decay from freshly fallen to nearly fully decomposed; or (b) structural features, such as rocks, bark, and moss mats, that provide the species with food and cover. Underground habitat in forest or meadow areas contains interstitial spaces provided by (a) igneous rock with fractures or loose rocky soils, (b) rotted tree root channels, or (c) burrows of rodents or large invertebrates (Degenhardt et al. 1996; 78 FR 9876).

Plethodontid salamanders, which lack both lungs and gills, breathe through the mucous membranes in their mouth and throat and through their moist skin. The Jemez Mountains Salamander is completely terrestrial and does not use standing surface water for any life stage (77 FR 56481). Present in its habitat year-round, the Jemez Mountains Salamander spends most of its life underground but can be found on the surface when conditions are warm and wet, approximately July through October. During this time, the Jemez Mountains Salamander can be found under rocks, bark, and moss mats, and inside and under logs (Ramotnik 1986, Everett 2003). The Jemez Mountains Salamander eats invertebrates, including ants, mites, and beetles, and is thought to lay its eggs underground (78 FR 9876).

1.3 *Threats*

Principal threats to habitat include historical fire exclusion and suppression and severe wildland fires; forest composition and structure conversions; post-fire rehabilitation; forest and fire management; roads, trails, and habitat fragmentation; recreation; and disease (77 FR 56482).

2.0 Impact of Human Activities

2.1 *Introduction*

Primary threats to the Jemez Mountains Salamander on LANL property are impacts to habitat quality or destruction of individual salamanders caused by LANL or Los Alamos County operations. Forested LANL property is also subject to impacts from severe wildland fire and wildfire suppression.

2.2 *Impacts on Habitat Quality*

2.2.1 Development

Property at LANL varies from remote, isolated land to heavily developed and/or industrialized. Most of the large developed areas at LANL are found on mesa tops, generally in the northern and western portion of LANL. The areas of Jemez Mountains Salamander habitat currently most impacted by development occur in Los Alamos Canyon. A secondary paved road (West Road) in the bottom of the canyon exits the canyon on the north-facing slope through Jemez Mountains Salamander habitat. The canyon bottom also contains a recreational ice rink operated by Los Alamos County on an inholding owned by Los Alamos County. Development that reduces the occurrence of primary constituent elements of Jemez Mountains Salamander in core habitat would likely have a negative impact on the species.

2.2.2 Pedestrians and Vehicles

Many canyon bottoms and mesa tops at LANL have dirt roads traversing them. Most of these roads are gated; however, many of these roads are accessible to LANL employees and the public on foot or by bicycle. Some areas, such as Los Alamos Canyon, are frequently used by hikers and dog owners on active and historic trails that traverse the canyon, through Jemez Mountains Salamander habitat in places. Maintenance of roads and trails in the habitat may have a negative impact on the species.

2.2.3 Severe Wildland Fire and Wildfire Suppression

Stand-replacing wildfires significantly change forest composition and structure and reduce canopy cover. Even ground wildfires could reduce the volume of fallen logs and large woody debris. Large areas of historic Jemez Mountains Salamander habitat have been impacted by stand-replacing wildfires associated with current forest stocking conditions, drought, and high temperatures (77 FR 56482). Forested habitats on LANL property are also subject to severe wildland fires. To mitigate wildfire risks, some areas of LANL have been treated for fuels reduction and creation of fuel breaks both pre-emptively and during active wildfire suppression. Both wildfires and wildfire suppression activities can negatively impact the primary constituent elements of Jemez Mountains Salamander core habitat.

2.3 *Impacts on Individual Salamanders*

2.3.1 Disease

The amphibian pathogenic fungus Batrachochytrium dendrobatidis (Bd) was found in a wild-caught Jemez Mountains Salamander in 2003 (Cummer et al. 2005) on the east side of the species' range and again in another Jemez Mountains Salamander in 2010 on the west side of the species' range (77 FR 56482). Bd causes the disease chytridiomycosis, whereby the Bd fungus attacks keratin in amphibians. In adult amphibians, keratin primarily occurs in the skin. The symptoms of chytridiomycosis can include

sloughing of skin, lethargy, morbidity, and death. Chytridiomycosis has been linked with worldwide amphibian declines, die-offs, and extinctions, possibly in association with climate change (Pounds et al. 2006). Chytridiomycosis could be a threat to the Jemez Mountains Salamander because this disease is a threat to many other species of amphibians, and the pathogen has been detected in the Jemez Mountains Salamander (77 FR 56482).

As part of a cooperative study with the New Mexico Department of Game and Fish between 2007 and 2013, various amphibian species, including the canyon tree frog (*Hyla arenicolor*), western chorus frog (*Pseudacris triseriata*), Woodhouse's toad (*Anaxyrus woodhousii*), tiger salamander (*Ambystoma tigrinum*), and Jemez Mountains Salamander were tested for Bd infection at LANL. To date, all sampling has been negative for Bd infection (Fresquez et al. 2013; B. Thompson, personal communication, January 2022).

2.3.2 Destruction of Individual Salamanders

During periods of the year when Jemez Mountains Salamanders are on the soil surface, when conditions are warm and wet (generally July to October), they are vulnerable to injury and mortality from soil-disturbing activities, including operation of heavy equipment in core habitat. They also are at risk to be found and collected by people.

3.0 AEI General Description for the Jemez Mountains Salamander

The AEI consists of two areas—a core area and a buffer area. The core habitat is defined as suitable habitat where the Jemez Mountains Salamander occurs or could occur at LANL. The core habitat consists of sections of north-facing slope that contain the required microhabitat to support the Jemez Mountains Salamander. The buffer area is 100 m (328 ft) wide, extending outward from the edge of the core area.

3.1 *Method for Identifying a Jemez Mountains Salamander AEI*

The first step in identifying potential Jemez Mountains Salamander AEIs at LANL was to use a GIS to model habitat. Early modeling efforts by Hathcock (2008) identified areas of potential habitat, and that model was further refined. The following parameters were modeled in the GIS:

- Elevation: 2,150 m (7,000 ft) and above
- Slope: Greater than 20 degrees
- Aspect: north-facing +/− 20 degrees
- Land cover: Mixed conifer
- Land use: Undeveloped
- Modeled habitat is selected only if it is greater than five contiguous 30 × 30 m (98 × 98 ft) pixels in size

Once this habitat layer was developed, a second layer was modeled that examined the level of shade in the habitat, also known as an illumination index. Because the Jemez Mountains Salamander needs cool moist conditions, an illumination index model would further highlight areas where this habitat type could occur or further reinforce the areas selected by the GIS modeling. The illumination index describes the amount and extent of solar radiation that reaches the Earth's surface at a given point, taking into account

the topography that could cast shadows. The illumination model was developed using the 5 m (16 ft) resolution digital elevation model hillshade and using the Surface toolbox in ArcToolbox (Environmental Science Research Institute, Redlands, California) using the highest height of the sun on June 21 at 1:00 p.m., altitude of 74.4 and Azimuth of 178.4, when the sun would be at its maximum height. These procedures were based on work done by Reilly et al. (2009).

Once this modeling was complete, LANL biologists performed field validation to verify the suitability of the modeled habitat. The goal was to verify that mixed conifer was still the dominant cover class in the selected area. The GIS analysis used data from a landcover map created by McKown et al. (2003). Changes in habitat from fire and extreme drought effects have occurred since this landcover map was published. Because LANL is on the extreme edge of Jemez Mountains Salamander lower elevational range, a key component in this part of its range is soil moisture content. During field validation, evidence of a moist mixed conifer habitat versus a dry mixed conifer habitat was noted. One of the key indicators used to delimit areas of moist versus dry mixed conifer during the field validation was the presence of white fir (Evans et al. 2011) combined with a high canopy cover.

Field validation of the model occurred in May 2013, or decisions were based on earlier field visits to the sites from other projects. Each field validation consisted of LANL biologists walking down all of the modeled habitat polygons to look for the presence of indictor features. If a polygon of modeled habitat contained white fir, indicating a moist, wet conifer–type habitat, a high canopy closure, and other signs of high habitat quality such as dead logs, moss, or other areas that could be used as cover by the Jemez Mountains Salamander, then the polygon was marked for retention in the final core habitat. Polygons that did not contain the necessary habitat requirements were omitted.

After the field validation was complete, the final core habitat boundaries were hand-digitized using ArcGIS (Environmental Science Research Institute, Redlands, California) by LANL biologists in and around the validated modeled polygon and areas between polygons, if appropriate. The final identified core habitat at LANL occurs on the north-facing slopes of canyons. Toward the rim of the canyon, the core boundaries end where the mixed conifer ends. In the canyon bottoms, the core boundary extends to the edge of the stream channel. The upstream and downstream core boundaries end where the mixed conifer ends. A buffer habitat was extended around the core to a distance of 100 m (328 ft) outward. The LANL Fenton Hill satellite facility in the Jemez Mountains off New Mexico Highway 126 is on land leased to DOE by the Santa Fe National Forest. The entire footprint is considered to be developed core habitat for the Jemez Mountains Salamander because proposed critical habitat is adjacent to the facility.

3.2 *Location and Number of Jemez Mountains Salamander AEIs*

The identified Jemez Mountains Salamander core habitats were grouped by canyon system into AEIs, which contain contiguous and noncontiguous habitat areas. The largest contiguous section of habitat at LANL is in Los Alamos Canyon. Two noncontiguous areas of habitat are located in Two-mile Canyon, four in Pajarito Canyon, one contiguous area in Cañon de Valle, and the entire Fenton Hill footprint.

4.0 AEI Management

4.1 *Overview*

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to the Jemez Mountains Salamander from habitat alterations that reduce habitat quality. Habitat

alterations are considered for all AEIs and for both core and buffer areas. Developed areas that have ongoing baseline levels of activities and are not suitable habitat for Jemez Mountains Salamander have different restrictions than undeveloped core or buffer areas. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable. Protective measures are described as management practices that should be followed when working in AEIs.

4.2 *Definition and Role of Occupancy in AEI Management*

Occupancy simply refers to whether an AEI is occupied by the Jemez Mountains Salamander. The Los Alamos Canyon AEI is known to be occupied based on past surveys. Surveys for the Jemez Mountains Salamander are known to have a very low detection rate for occupied areas, so at LANL, all AEIs are assumed to be occupied at all times. If needed, site-specific surveys will be conducted by federally permitted LANL biologists.

4.3 *Definition and Role of Developed Areas in AEI Management*

Developed areas include all building structures, paved roads, improved gravel roads, and paved and unpaved parking lots. The majority of Jemez Mountains Salamander core habitat is in undeveloped areas except for the satellite facility at Fenton Hill and a small amount of habitat in Los Alamos Canyon where West Road crosses the habitat. Generally, developed areas will not have restrictions; however, some of the undeveloped sections within the footprint of Fenton Hill may have restrictions because they could contain Jemez Mountains Salamanders when they move to the surface between July and October. Any project that occurs within developed core habitat will be evaluated by LANL biologists for ESA compliance.

4.4 *General Description of Core and Buffer Areas and Allowable Area Development*

The purpose of buffer areas is to protect core areas from habitat degradation. The current levels of development in buffer and core areas represent baseline conditions for this site plan. No further development is allowed in the core area under the guidelines of this site plan. Any development in a buffer area will be reviewed by LANL biologists to ensure that there are no impacts to the core habitat.

4.5 *Emergency Actions*

Managers may activate emergency actions if safety and/or property is immediately threatened by something occurring within an AEI (e.g., wildfire, water line breakage). Contact a LANL biologist (https://int.lanl.gov/environment/bio/index.shtml), the Environmental Stewardship Group (505-665-8855), or the DOE/NNSA Los Alamos Field Office (505-667-7014) as soon as possible. If the emergency occurs outside of regular business hours, contact the Emergency Operations Support Center (505-667-2400); this office will then communicate with the appropriate LANL and DOE/NNSA Field Office personnel.

4.6 *Introduction to AEI Management Guidelines*

Section 4.7 provides the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. It describes what and where habitat alterations are allowed under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for ESA compliance. This site plan provides only guidelines for the Jemez Mountains

Salamander AEIs. If an activity is desired in an area that has overlapping AEIs, all applicable site plans must be consulted. AEI maps show the location of all AEIs in an area. LANL biologists are available to help interpret site plans and answer questions (https://int.lanl.gov/environment/bio/index.shtml).

4.7 *Definition of and Restrictions on Habitat Alterations*

4.7.1 Definition of Habitat Alterations

Habitat alteration includes any action that alters the soil structure, vegetative components necessary to the species, water quality, or hydrology in undeveloped areas of an AEI. An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core. Habitat alterations would also include soil pits for soil samples deeper than 15 cm (6 in.) using either hand or mechanized augers. Any activity that might disturb the soil will need to be reviewed by LANL biologists.

The habitat components most important to the Jemez Mountains Salamander include soil structure and vegetative structure. The forest structure within an area designated as a Jemez Mountains Salamander AEI is important because it provides the necessary moist, cool microclimate.

4.7.2 Fuels Management Practices to Reduce Wildfire Risk

One of the primary threats to the Jemez Mountains Salamander is wildfire (77 FR 56482), but they also require habitat with a high canopy cover, which makes fuels reduction challenging. Within undeveloped core areas, thinning trees to a level of 80 percent canopy cover or higher is approved. Trees may not be thinned below 80 percent canopy cover without further ESA review by LANL biologists. Large logs on the ground should be left in place and not chipped. Understory thinning that does not reduce total canopy cover below 80 percent is permitted. Large trees that are felled should be left as large logs on the ground. Smaller trees and understory shrubs that may be thinned should be dispersed and left onsite to aid in soil moisture retention. Thinning activities should not occur during the rainy season between July to October when the Jemez Mountains Salamander is found on the surface.

In buffer areas, thinning of trees may occur to the current LANL-approved prescription level (LAAO 2000). LANL biologists are available to provide guidance and mark trees for thinning (https://int.lanl.gov/environment/bio/index.shtml).

4.7.3 Utility Corridors

Habitat alterations, such as cutting down trees that threaten power lines, are allowed within 8 m (26 ft) of either side of an existing electrical utility line at LANL under existing guidelines and engineering controls (LANL 2019). This level is approved in all areas of an AEI. New utility lines and utility lines that require clearance of a right-of-way greater than 16 m (52 ft) total in core habitat must be individually reviewed for ESA compliance.

4.7.4 Restrictions on Habitat Alterations

Habitat alterations other than the fuels management practices and utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated

for ESA compliance. Habitat alterations in buffer areas must be reviewed by LANL biologists to ensure that there are no impacts to core habitat.

V. ACRONYMS AND ABBREVIATIONS

Acronym	Definition
ac	acre
AEI	area of environmental interest
Bd	Batrachochytrium dendrobatidis (Chytrid Fungus)
BMP	Best management practices
cm	centimeter
DARHT	Dual-Axis Radiographic Hydrodynamic Test Facility
dB	decibel
dB(A)	A-weighted decibel
dB(C)	C-weighted decibel
DDT	(dichloro-diphenyl-trichloroethane)
DOE	U.S. Department of Energy
ESA	Endangered Species Act of 1973
fc	foot -candles
FR	Federal Register
ft	feet
g	gram
GIS	geographic information system
ha	hectare
HMP	Threatened and Endangered Species Habitat Management Plan
HVAC	heating, ventilation, and air conditioning
in.	inch
kg	kilogram
LANL	Los Alamos National Laboratory
m	meter
mi	mile
NEPA	National Environmental Policy Act
NNSA	National Nuclear Security Administration
oz	ounce
PCBs	polychlorinated biphenyls
TNT	trinitrotoluene(2,4,6-)
USFWS	U.S. Fish and Wildlife Service

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Appendix A: Supplemental Information

Table A-1. Percentage of Each Food Type Found in Mexican Spotted Owl Food Remains at LANL

Species	Relative Abundance
Neotoma spp.	26.22
Peromyscus spp.	10.22
Microtus spp.	4.44
Gophers	4.89
Bats	5.78
Chipmunks	0.89
Rabbits	12.89
Shrews	1.33
Small Mammal	1.33
Medium Mammal	1.78
Medium Bird	8.00
Small Bird	4.89
Nocturnal Birds	0.89
Reptiles	4.89
Arthropods	11.56

Table A-2. Preliminary Light Measurements (in fc) for the Mexican Spotted Owl Site Plan

		Distance from Source			
	Source (street light)	5 m	10 m	15 m	20 m
fc	3.70	2.28	1.20	0.62	0.32

Appendix A: Most recent map of all AEIs at LANL

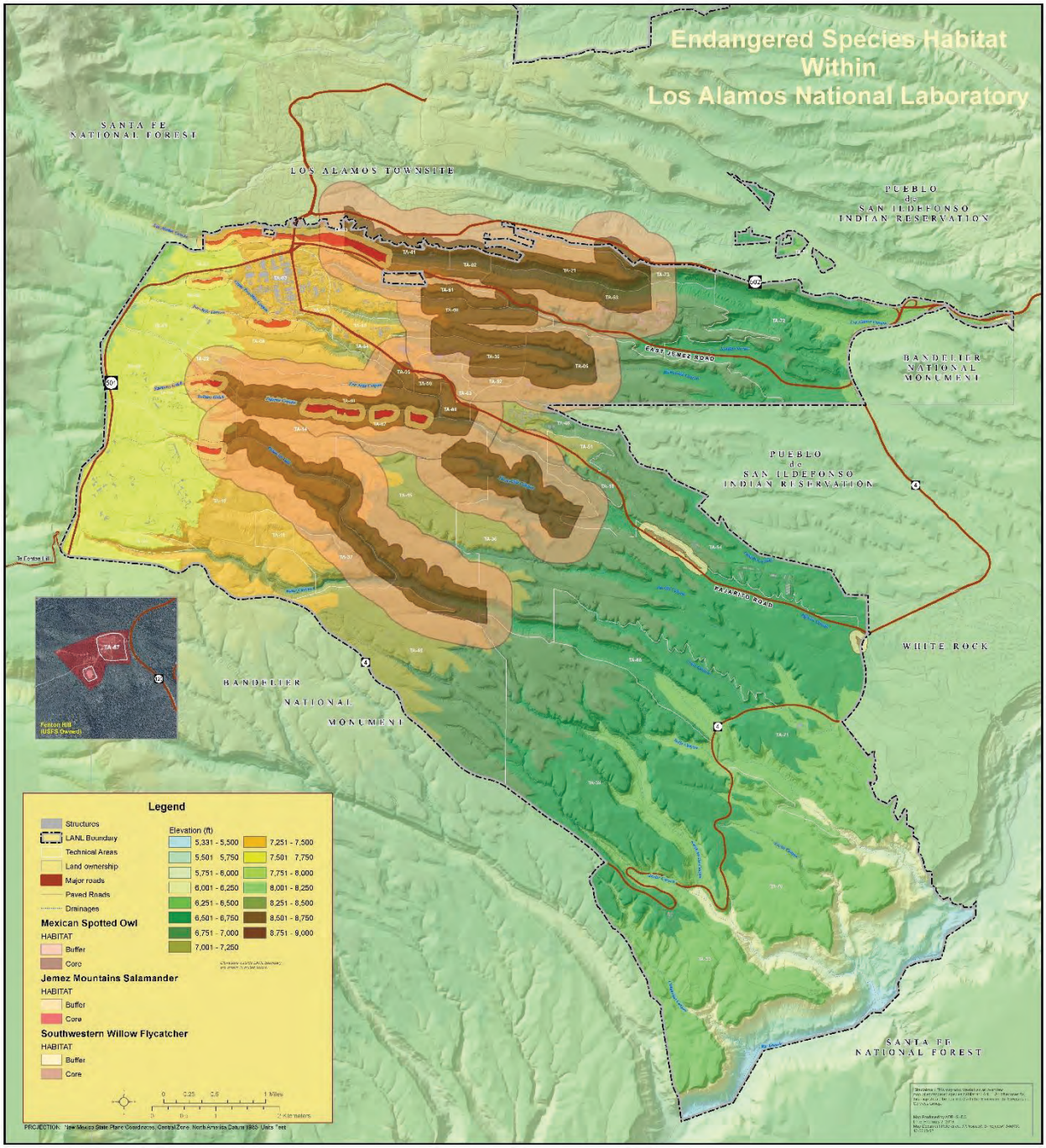

Figure A-1. Most recent map of all AEIs at LANL

ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT

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.

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.

NOT FOR CONSULTATION

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

NOT FOR CONSULTATION

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

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 Wherever found There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/7965	Endangered

Birds

NAME	STATUS
Mexican Spotted Owl Strix occidentalis lucida Wherever found There is **final** critical habitat for this species. Your location overlaps the critical habitat. https://ecos.fws.gov/ecp/species/8196	Threatened
Southwestern Willow Flycatcher Empidonax traillii extimus Wherever found There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/6749	Endangered
Yellow-billed Cuckoo Coccyzus americanus There is **proposed** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/3911	Threatened

Amphibians

NAME	STATUS

NOT FOR CONSULTATION

Jemez Mountains Salamander Plethodon neomexicanus Wherever found There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/4095	Endangered

Fishes

NAME	STATUS
Rio Grande Silvery Minnow Hybognathus amarus There is **final** critical habitat for this species. The location of the critical habitat is not available. 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 https://ecos.fws.gov/ecp/species/8196#crithab	Final

NOT FOR CONSULTATION

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.

NOT FOR CONSULTATION

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* 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	Breeds Dec 1 to Aug 31
Black-chinned Sparrow *Spizella atrogularis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9447	Breeds Apr 15 to Jul 31
Brewer's Sparrow *Spizella breweri* 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	Breeds May 15 to Aug 10
Golden Eagle *Aquila chrysaetos* 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	Breeds Jan 1 to Aug 31
Grace's Warbler *Dendroica graciae* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 20 to Jul 20
Gray Vireo *Vireo vicinior* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8680	Breeds May 10 to Aug 20
Lesser Yellowlegs *Tringa flavipes* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Lewis's Woodpecker *Melanerpes lewis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9408	Breeds Apr 20 to Sep 30

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Long-billed Curlew Numenius americanus — Breeds Apr 1 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/5511

Long-eared Owl asio otus — Breeds Mar 1 to Jul 15
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/3631

Olive-sided Flycatcher Contopus cooperi — Breeds May 20 to Aug 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/3914

Pinyon Jay Gymnorhinus cyanocephalus — Breeds Feb 15 to Jul 15
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9420

Rufous Hummingbird selasphorus rufus — 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/8002

Virginia's Warbler Vermivora virginiae — Breeds May 1 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/9441

Willet Tringa semipalmata — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Willow Flycatcher Empidonax traillii — Breeds May 20 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/3482

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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.

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.

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.

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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

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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. Criterion 1 – Management/Program	LANL organization chart SD100, *Integrated Safety Management System Description* PD100, *DOE/NNSA Approved Los Alamos National Laboratory* 10 CFR 851, *Worker Safety and Health Program*	EPC-CP organization chart EPC-DO-QP-100 EPC-CP-IWD-2102
CRD Attach. 2, 2. Criterion 2 – Management/Personnel Training and Qualification	PD781, *Training Program Management* P1040, *Software Quality Management* P781-1, *Conduct of Training*	EPC-CP-QAP-001
CRD Attach. 2, 3. Criterion 3 – Management/Quality Improvement	P101-18, *Procedure for Pause/Stop Work* PD322-4, *Issues Management* PD324, *LANL Metrics Program* P330-6, *Nonconformance Control and Reporting*	EPC-CP-QAP-001
CRD Attach. 2, 4. Criterion 4 – Management/Document and Records	PD1020, *Document Control and Records Management* P1020-1, *Laboratory Records Management* P1020-2, *Laboratory Document Control*	EPC-CP-QAP-001 ESH-AP-006 ESHQSS-AP-007 EPC-CP-QP-0901
CRD Attach. 2, 5. Criterion 5 – Performance/Work Processes	SD100, *Integrated Safety Management System Description Document with embedded 10 CFR 851 Worker Safety and Health Program* PD100, *DOE/NNSA Approved Los Alamos National Laboratory* *10 CFR 851 Worker Safety and Health Program Description* P151-1, *LANL Packaging and Transportation Program Procedure* PD311, *Requirements System and Hierarchy* SD330, *Los Alamos National Laboratory Quality Assurance Program* PD340, *Conduct of Engineering for Facility Work*;	EPC-CP-PIP-2101, *NPDES Multi-Sector General Permit Program Implementation Plan* EPC-CP-TP-2102, *Installing, Setting Up, and Operating ISCO Samplers* EPC-CP-TP-2103, *Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples* 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* P330-2, *Control and Calibration of Measuring and Test Equipment (M&TE)* SD601, *Conduct of Research and Development* PD781, *Training Program Management* P1040, *Software Quality Management*	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-2109, *MSGP Corrective Actions* EPC-CP-QP-2110, *MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance*
CRD Attach. 2, 6. Criterion 6 – Performance/Design	<u>For Facility Work:</u> PD340, *Conduct of Engineering and Configuration Management for Facility Work* P341, *Facility Engineering Processes Manual* P342, *Engineering Standards;* Engineering Standards Manual; Functional Series documents; Engineering Administrative Procedures <u>For R&D:</u> PD370, *Conduct of Engineering for Research and Development (R&D)*	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 2, 7. Criterion 7 – Performance/Procurement	P840-1, *Quality Assurance for Procurements*[1]	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 2, 8. Criterion 8 – Performance/Inspection and Acceptance Testing	P330-8, *Inspection and Test*[3] 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* P328-3, *Management Assessment* P328-4, *Management Observation and Verification*	EPC-CP-QAP-001
CRD Attach. 2, 10. Criterion 10 – Assessment/Independent Assessment	PD328, *LANL Assessment Program* P328-2, *Independent Assessment* 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] 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 NM-9000.A_047	Mortandad 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: _____
Safety Basis:	☒ N/A	☐ USQ	☐ USI Number: _____

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Responsible Line Manager:	Organization:	Signature:	Date:
Sarah Holcomb, Acting Group Leader	EPC-CP	Signature on File	11-21-2023

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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]*
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*

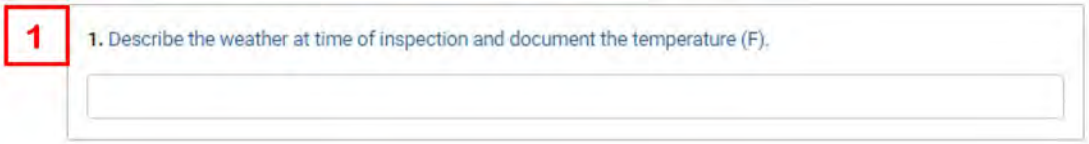
EPC-CP-PIP-2101, *NPDES Multi-Sector General Permit Program Implementation Plan*

10.0 ATTACHMENTS

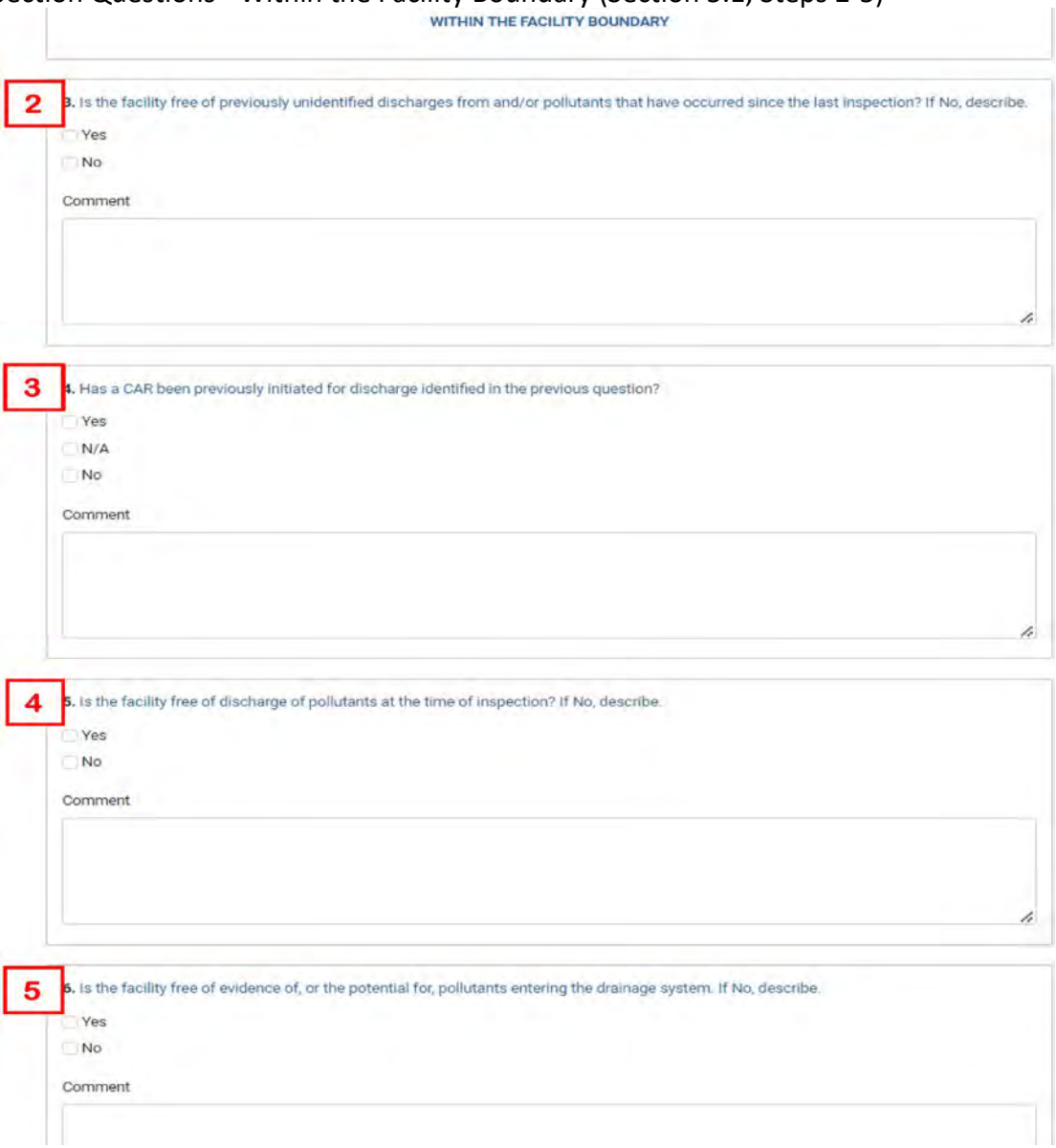
Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R1 Form 1, *MSGP Routine Facility Inspection* in ECMS

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)

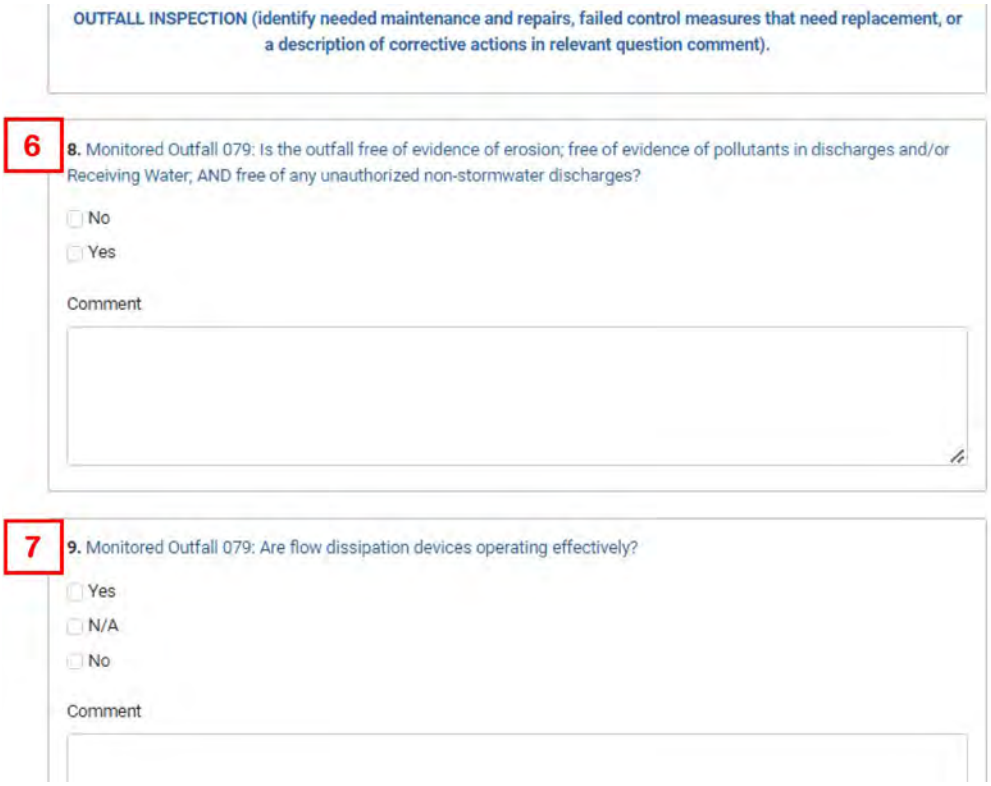


Inspection Questions - Within the Facility Boundary (Section 5.1, Steps 2-5)

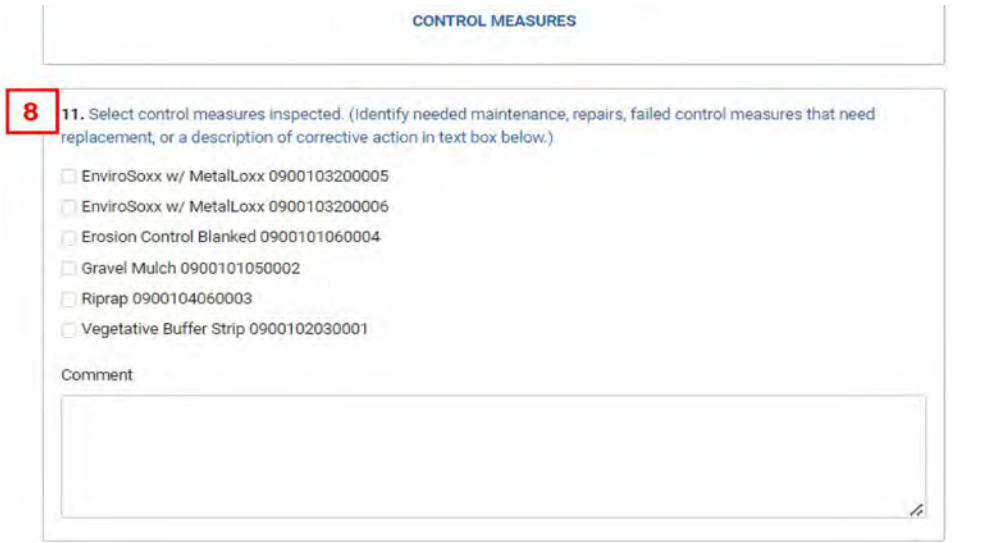


Attachment 1: *MSGP Routine Facility Inspection* in ECMS (cont.)
Screenshot Examples of EPC-CP-QP-2108 R1 Form 1
(Page 2 of 5)

Inspection Questions - Outfalls (Section 5.1, Steps 6-8)



Inspection Questions – Control Measures (Section 5.1, Step 9)



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

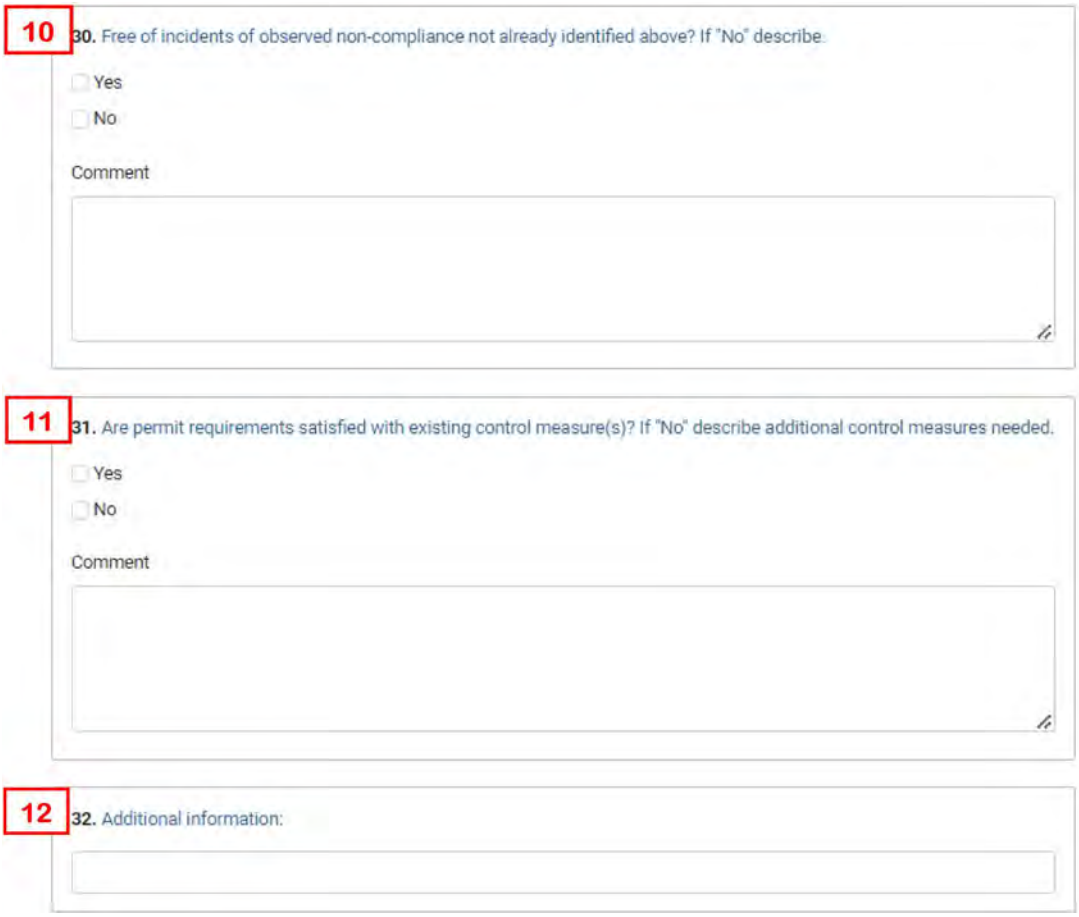
15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- 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)

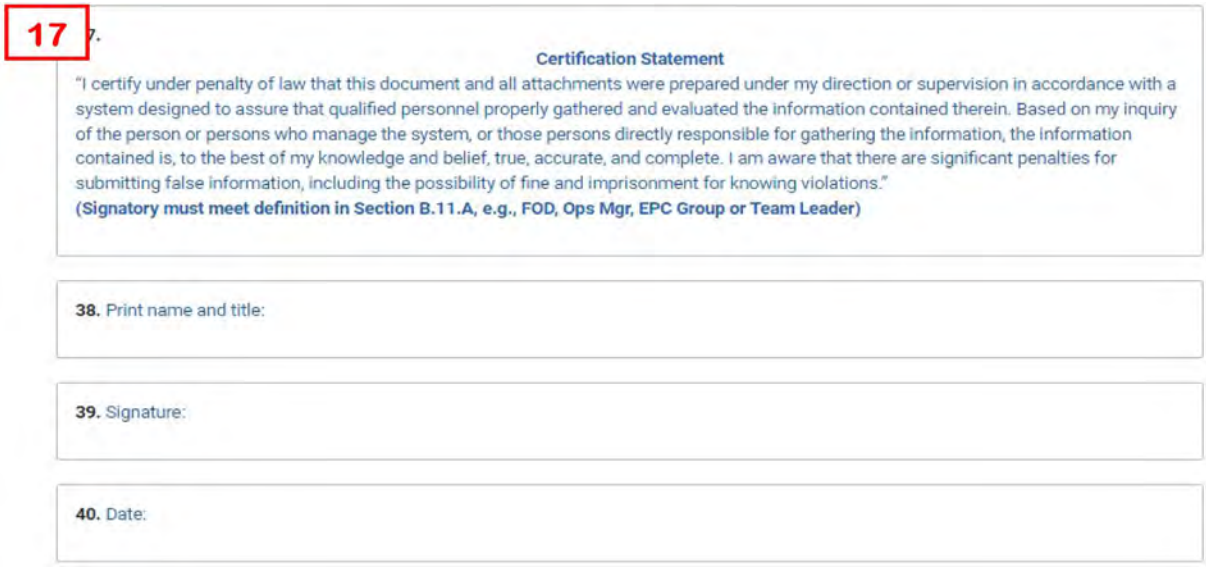
Inspection Questions –Facility and Additional Information (Section 5.1, Steps 12-14)



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:
Holly L. Wheeler	EPC-CP	Signature on File	05-05-2022

Derivative Classifier: ☒ Unclassified or ☐ _____

Name:	Organization:	Signature:	Date:
Steven E. Wolfel	EPC-CP	Signature on File	05-06-2022

Approval Signatures:

EPC-CP Reviewer:	Organization:	Signature:	Date:
Leslie J. Dale	EPC-CP	Signature on File	05-06-2022
EPC-CP RLM:	Organization:	Signature:	Date:
Terrill W. Lemke, Team Leader	EPC-CP	Signature on File	05-20-2022
EPC-CP RLM	Organization	Signature:	Date:
Steven L. Story, Group Leader	EPC-CP	Signature on File	06-02-2022

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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 *[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*

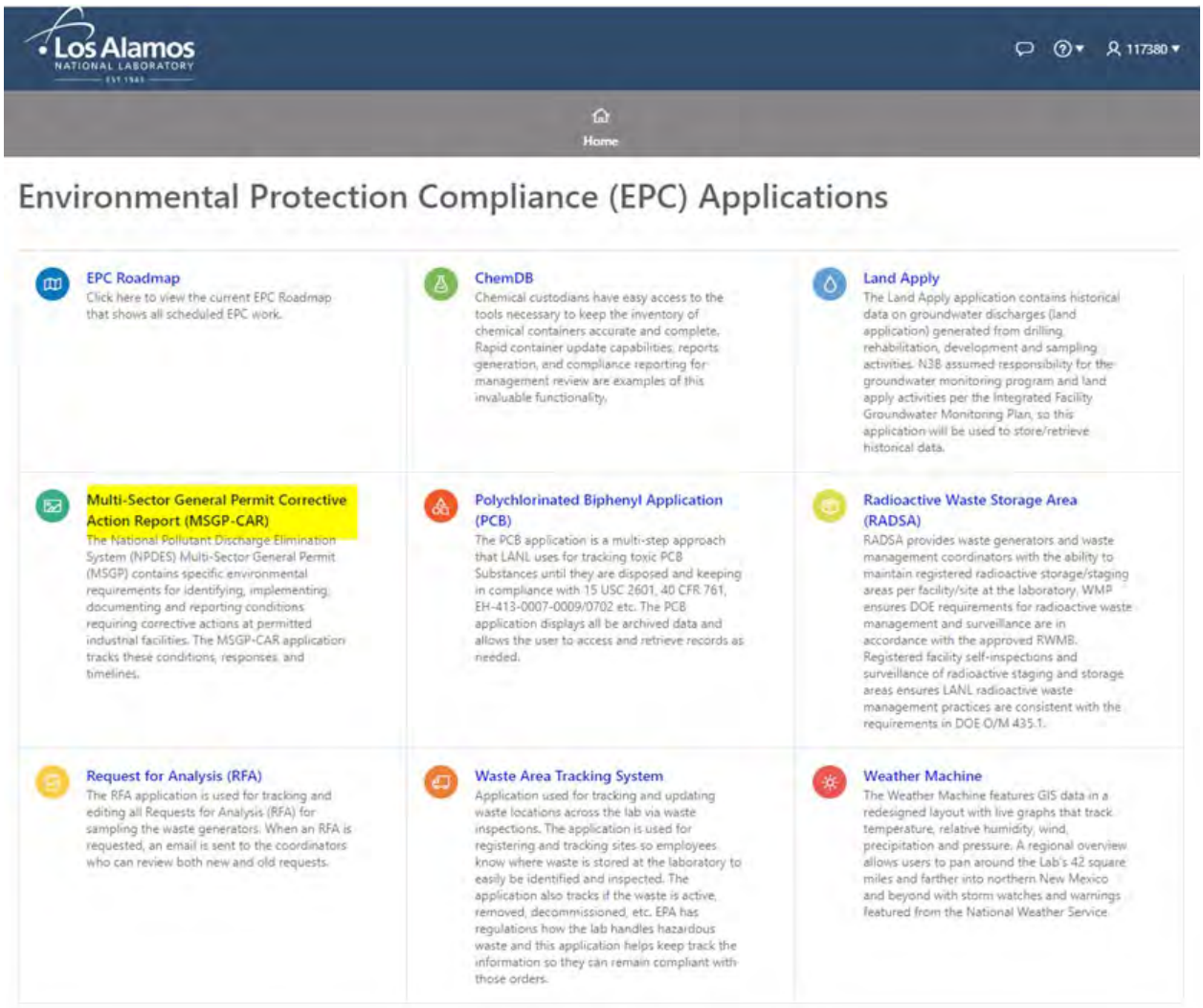
EPC-CP-QP-2108, *MSGP Routine Facility Inspections*

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

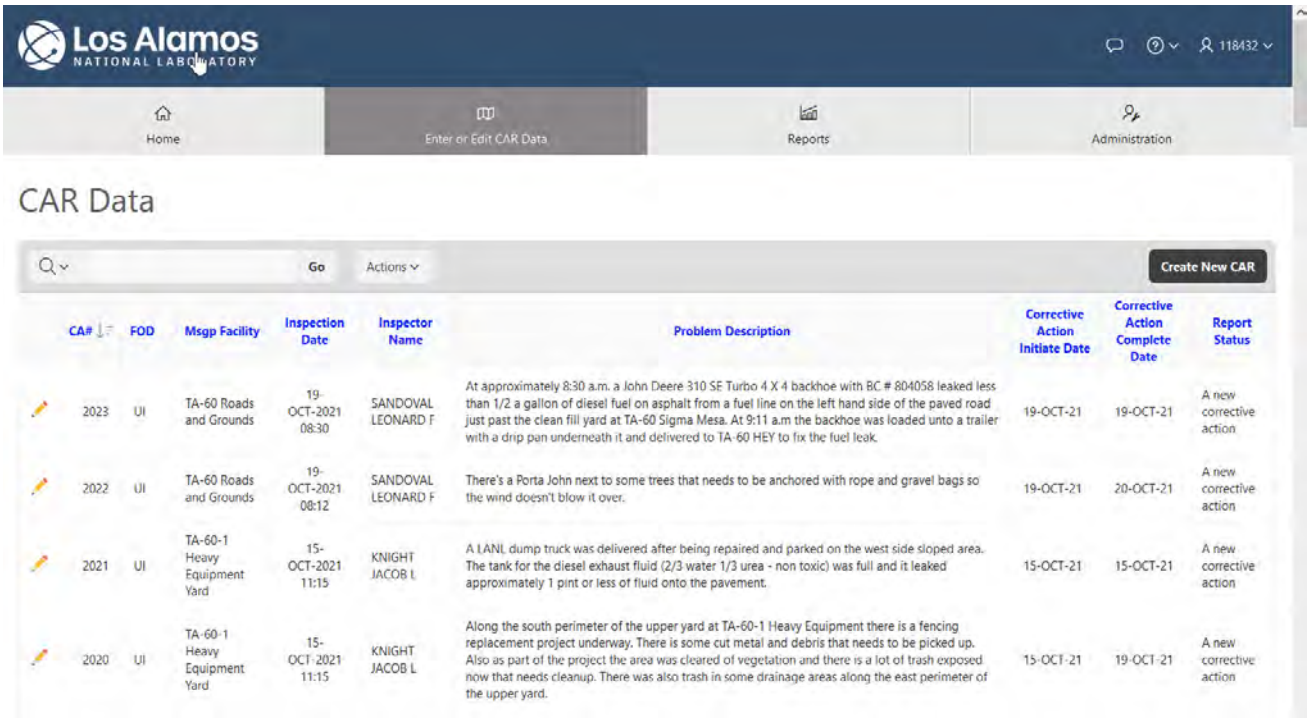
Attachment 1: Screenshot Example of CAR Database

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.)

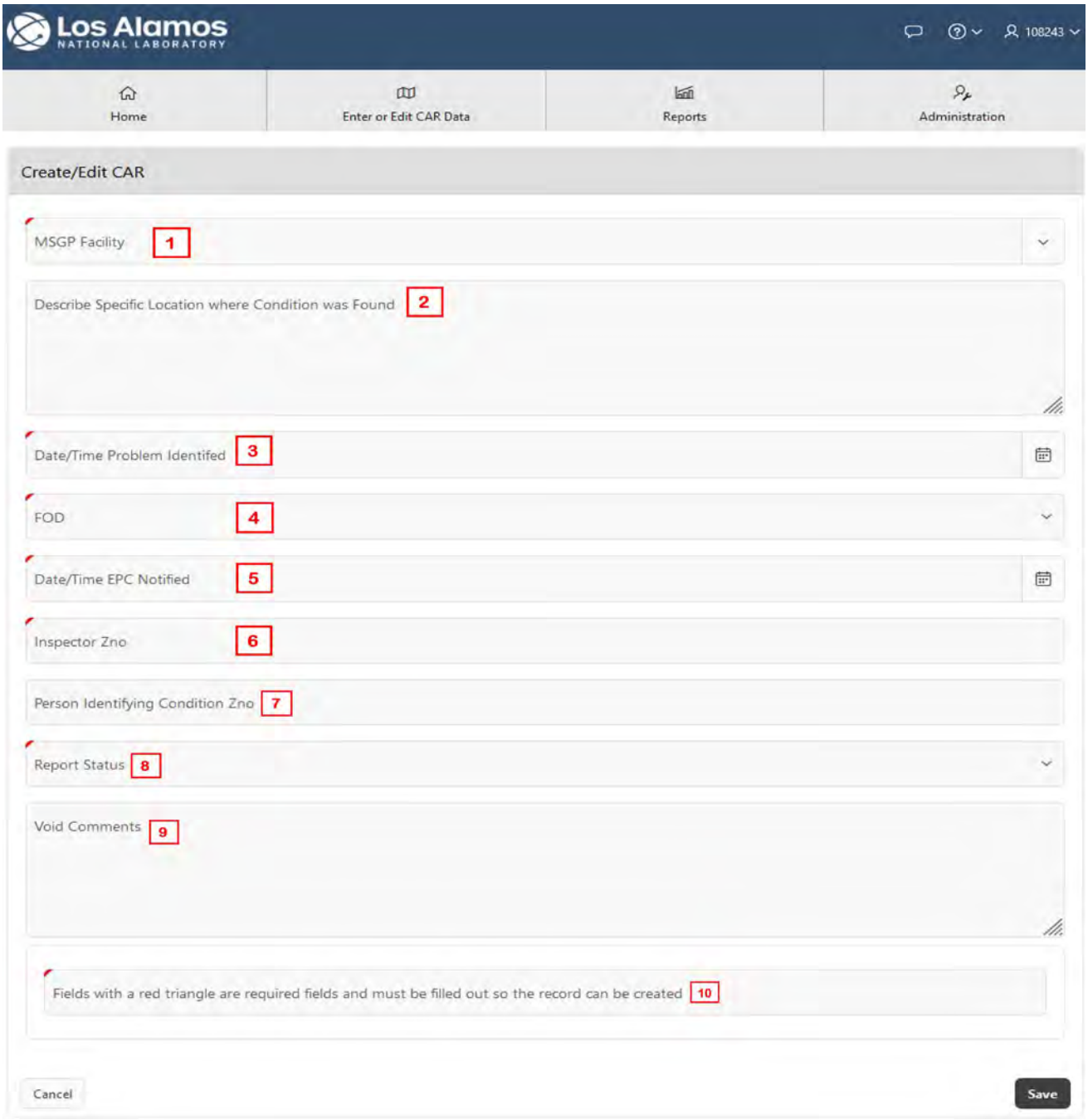
There are two basic functional areas in the system for most users: **Enter/Edit CAR Data** and **Reports.**



Click Create New CAR (see black button at the right of the screen shot in the example above).

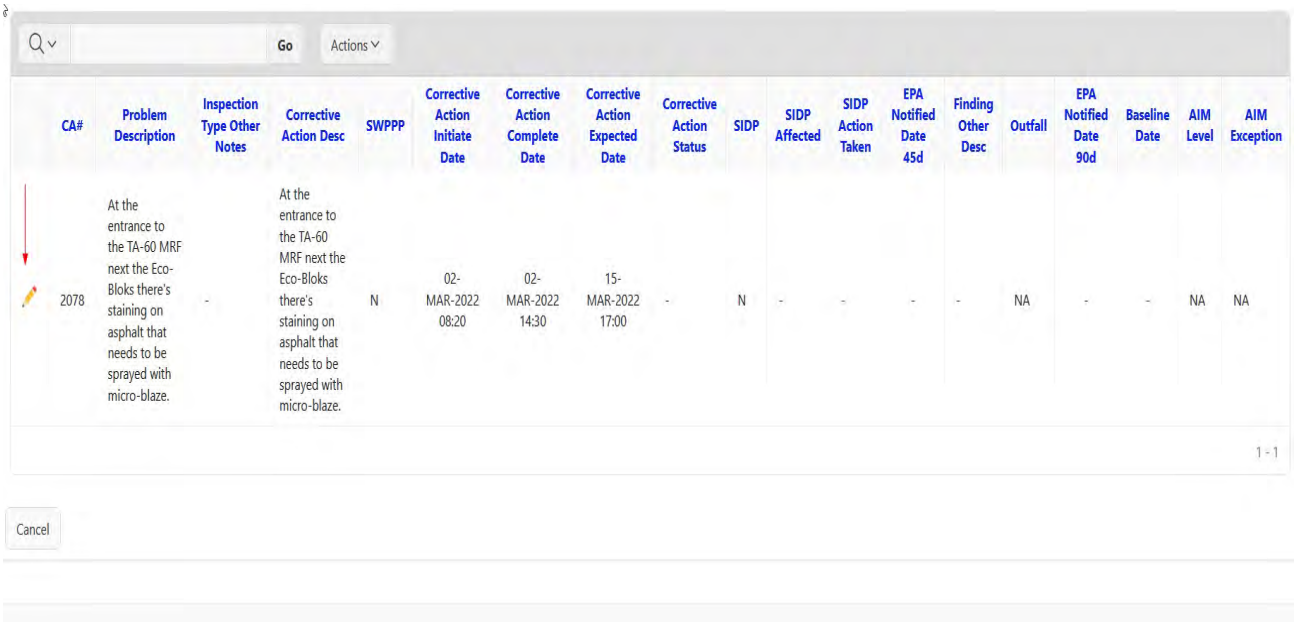
Attachment 1: Screenshot Example of CAR Database (cont.)

Corrective Action Details tab



Attachment 1: Screenshot Example of CAR Database (cont.)

Page 4 of 7



Go Actions

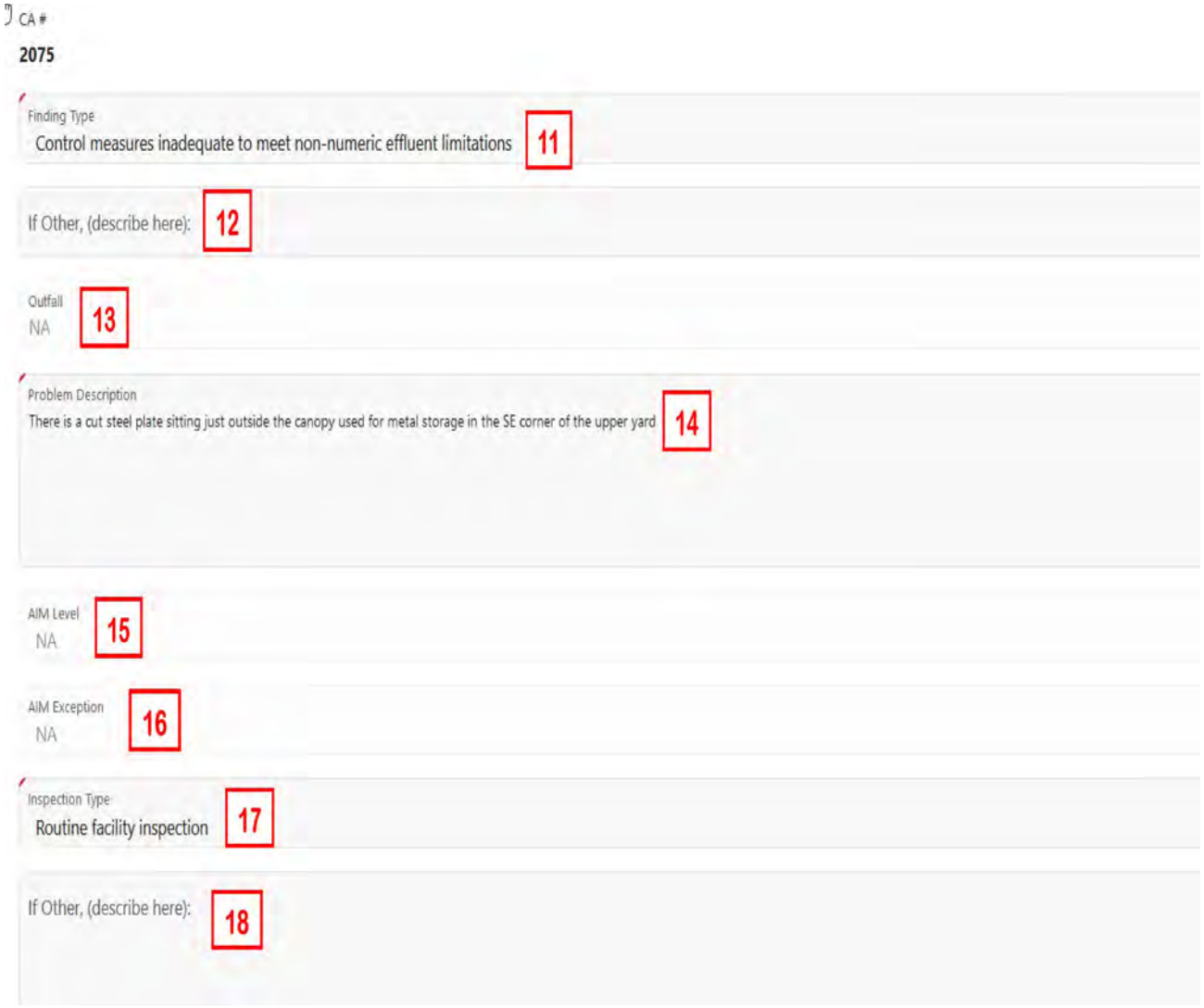
CA#	Problem Description	Inspection Type Other Notes	Corrective Action Desc	SWPPP	Corrective Action Initiate Date	Corrective Action Complete Date	Corrective Action Expected Date	Corrective Action Status	SIDP	SIDP Affected	SIDP Action Taken	EPA Notified Date 45d	Finding Other Desc	Outfall	EPA Notified 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

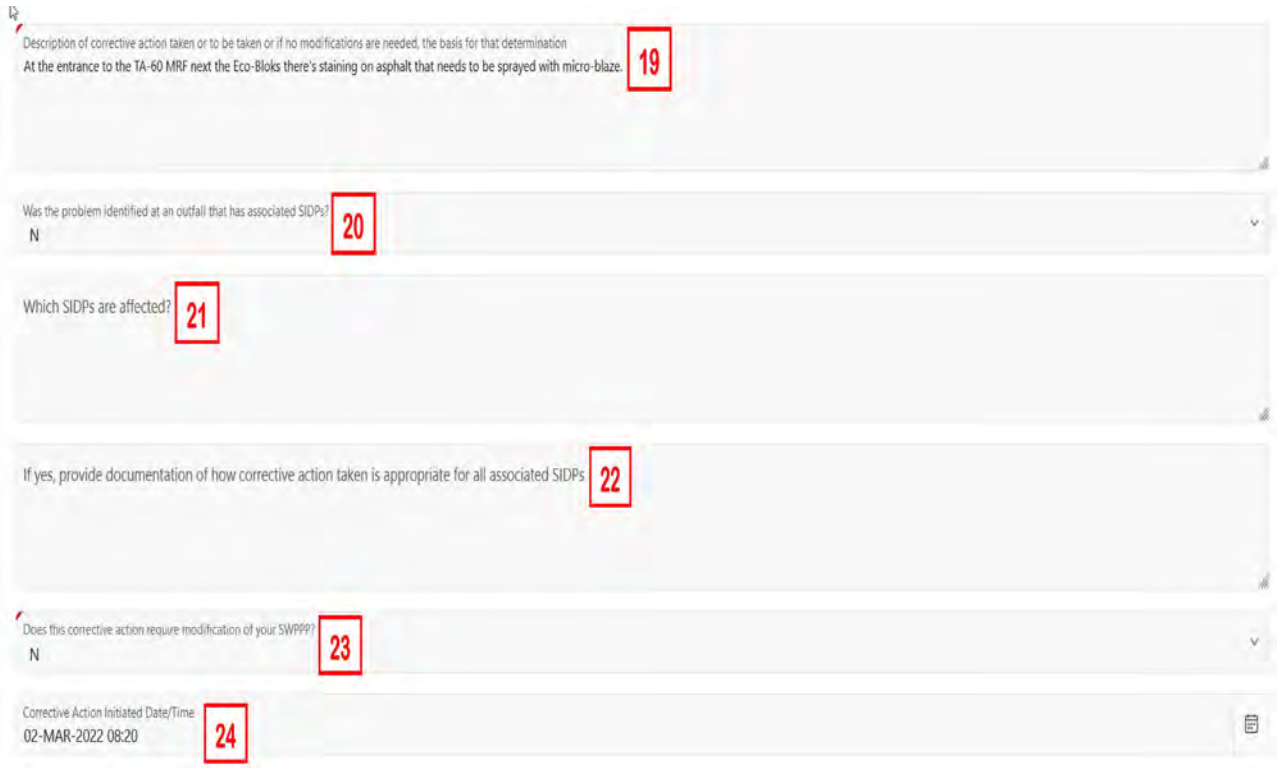
Attachment 1: Screenshot Example of CAR Database (cont.)

Page 5 of 7



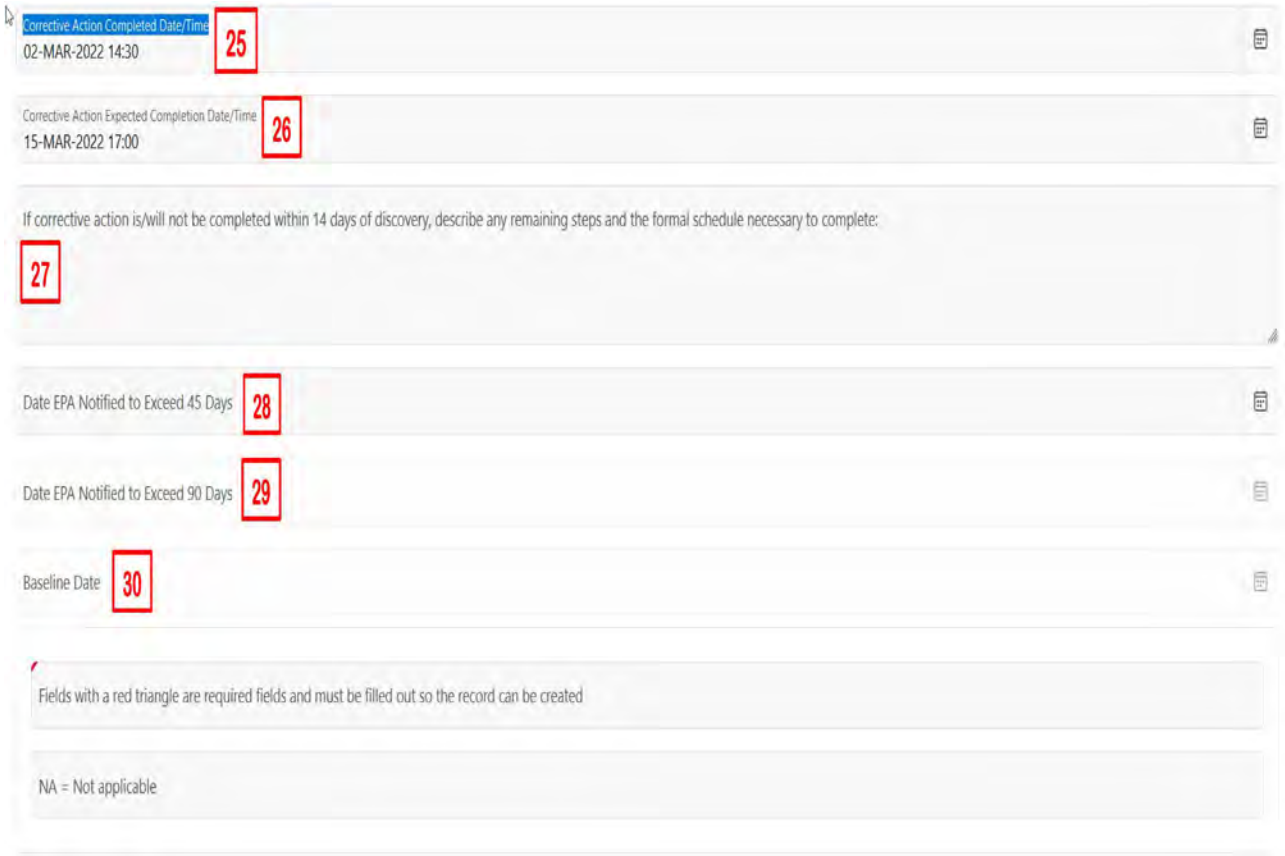
Attachment 1: Screenshot Example of CAR Database (cont.)

Page 6 of 7



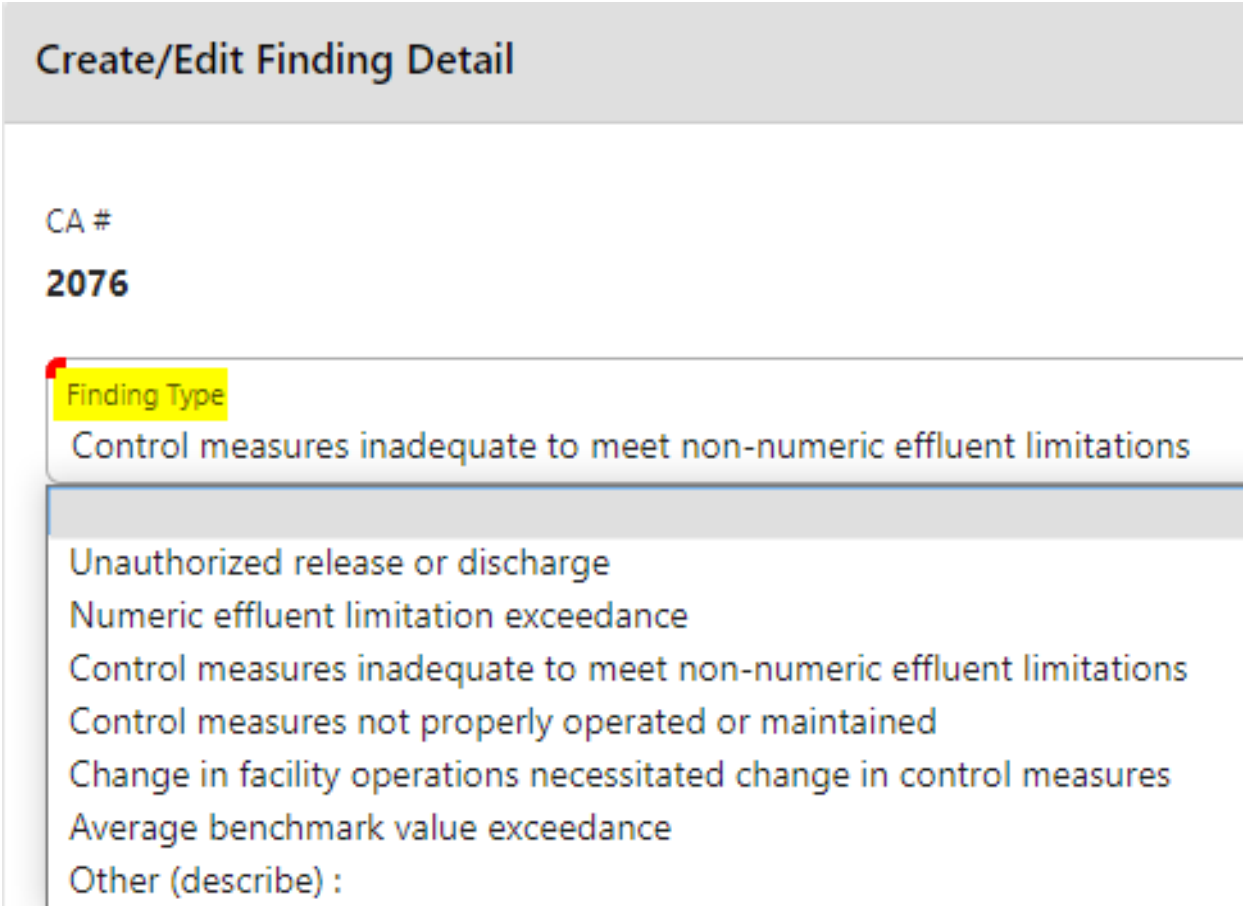
Attachment 1: Screenshot Example of CAR Database (cont.)

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:

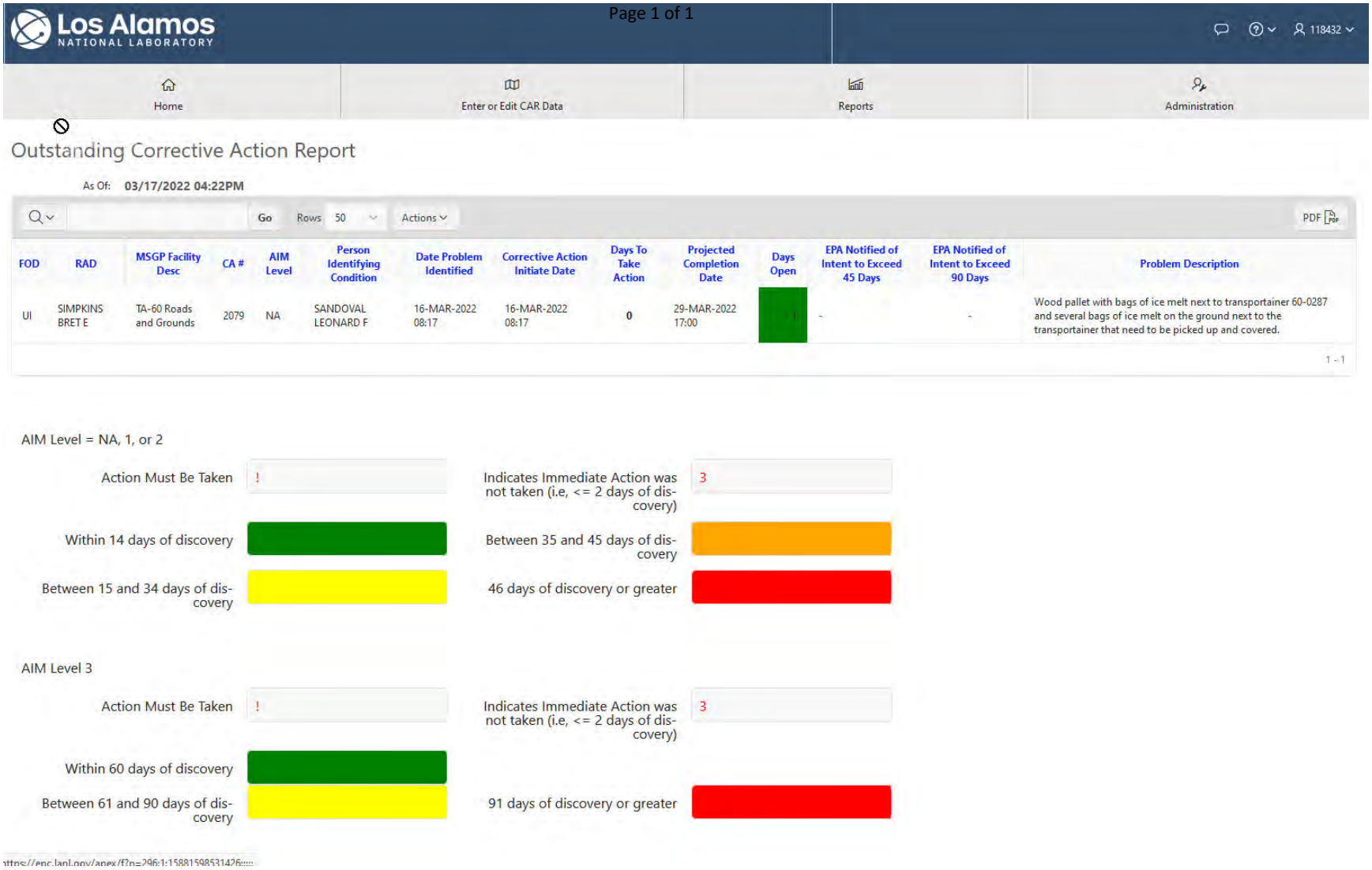
Finding Type	AIM Level	Days to Complete upon Discovery	Document Steps and Formal Schedule not to Exceed Max Days	Extension Beyond Max Days
Unauthorized release or discharge	NA	14	45	Notify EPA
Control measures inadequate to meet applicable water quality standards	NA	14	45	Notify EPA
Control measures 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



ATTACHMENT 18: EPC-CP-QP-2105, *MSGP STORMWATER VISUAL ASSESSMENTS*

EPC-CP-QP-2105	Revision: **2**	Los Alamos NATIONAL LABORATORY
Effective Date: 05/07/2024	Next Review Date: 05/07/2027	

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

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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

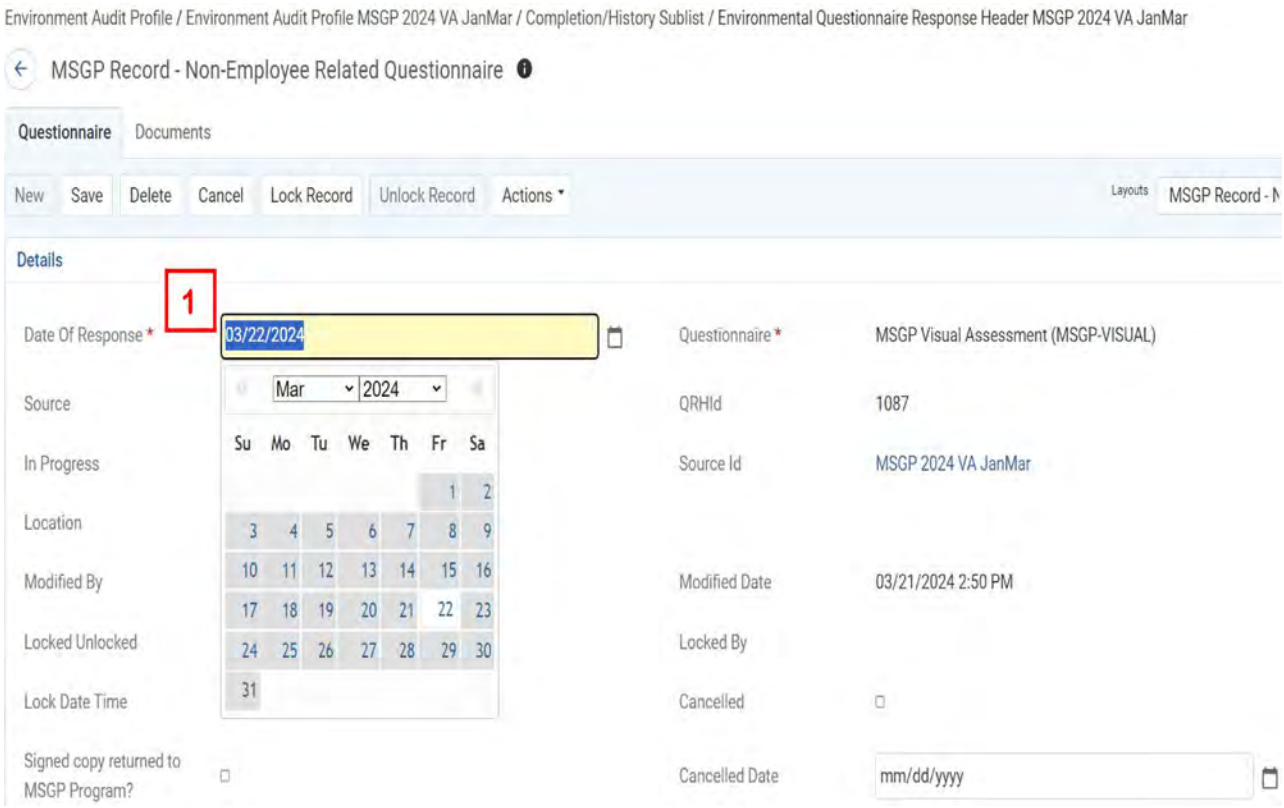
EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan

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)

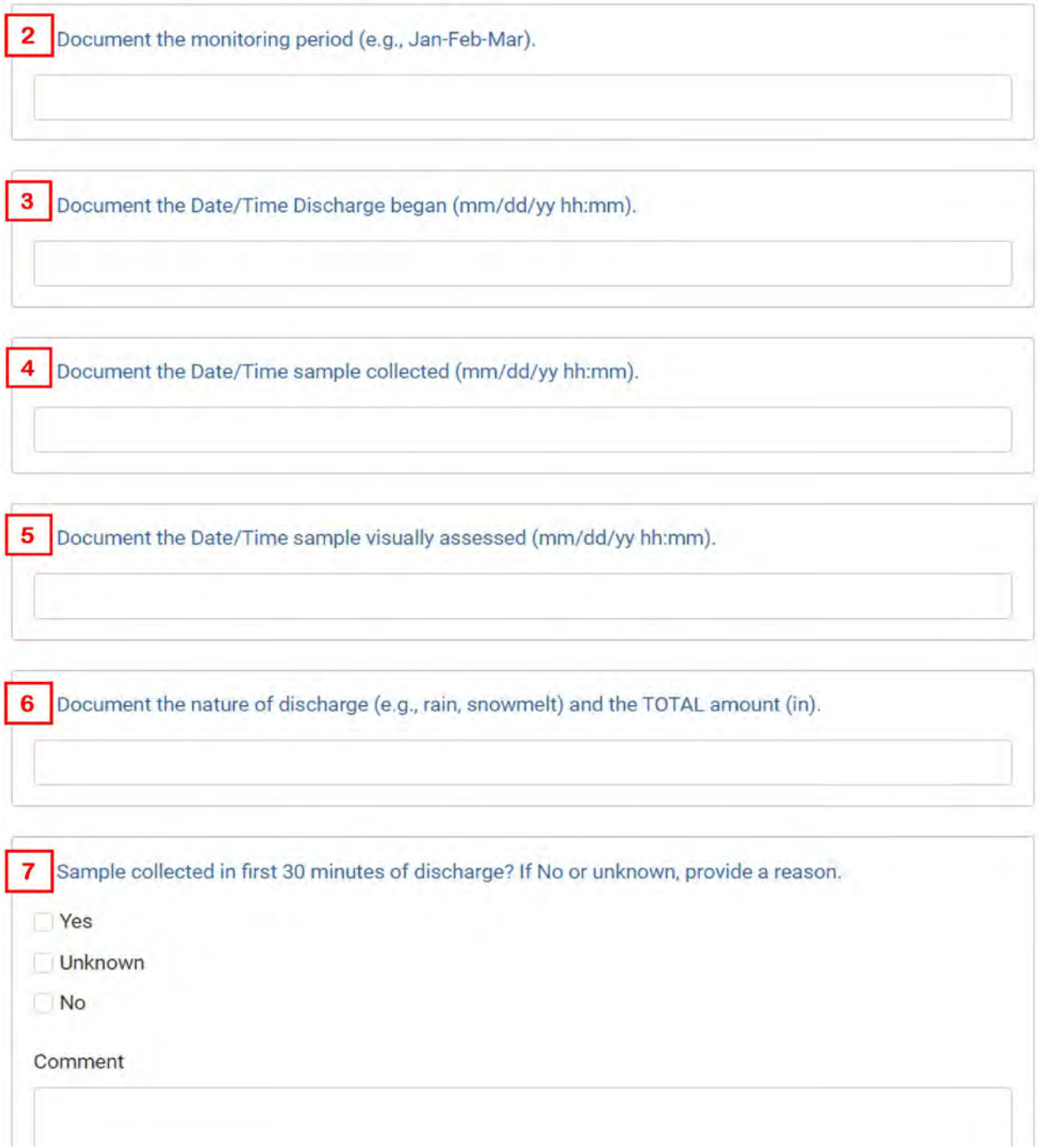
Section 4.1, Steps 2 and 3



Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)

(Page 2 of 6)

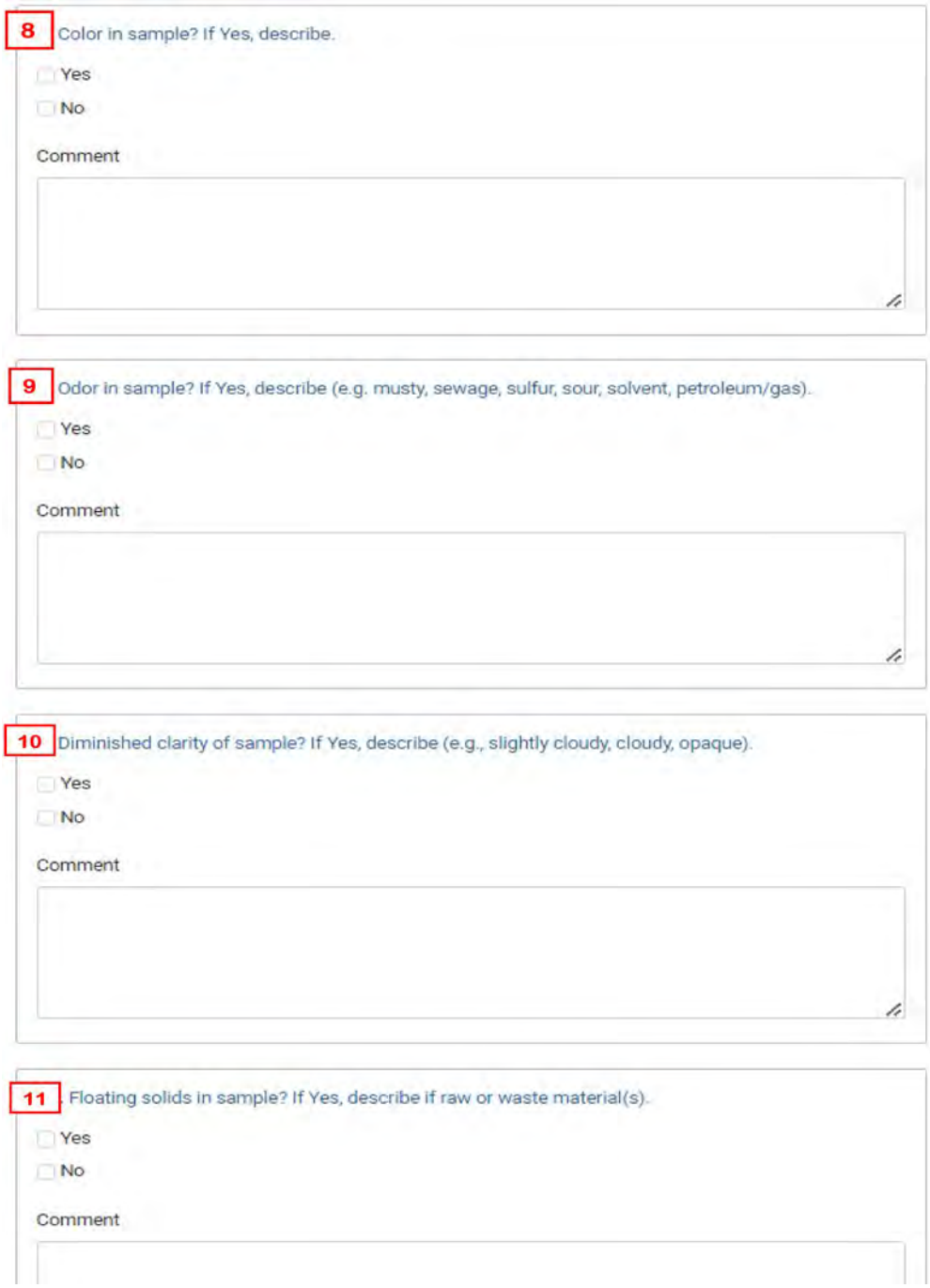
Section 4.1, Steps 4-9



Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)

(Page 3 of 6)

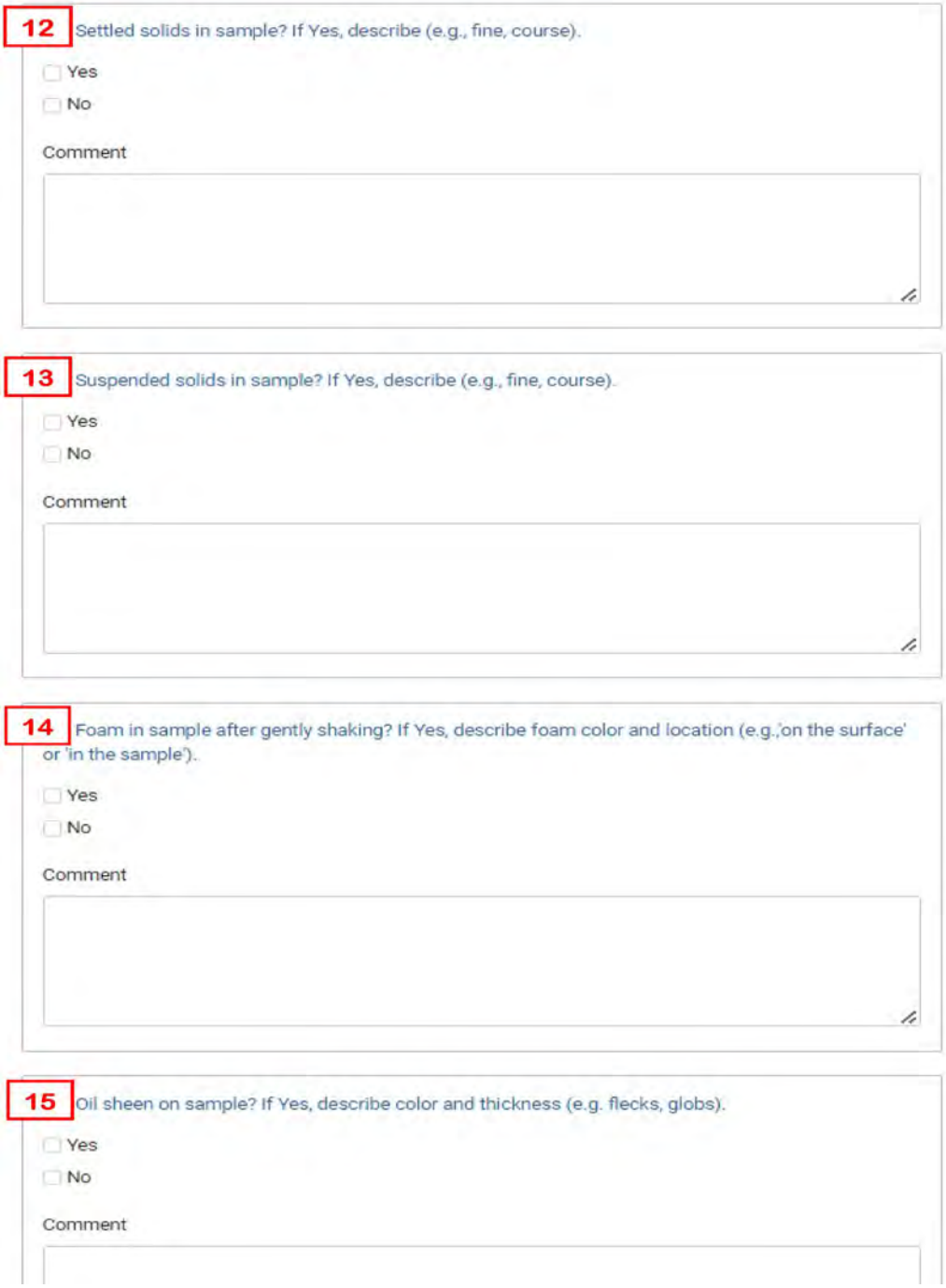
Section 4.2, Steps 1-4



Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)

(Page 4 of 6)

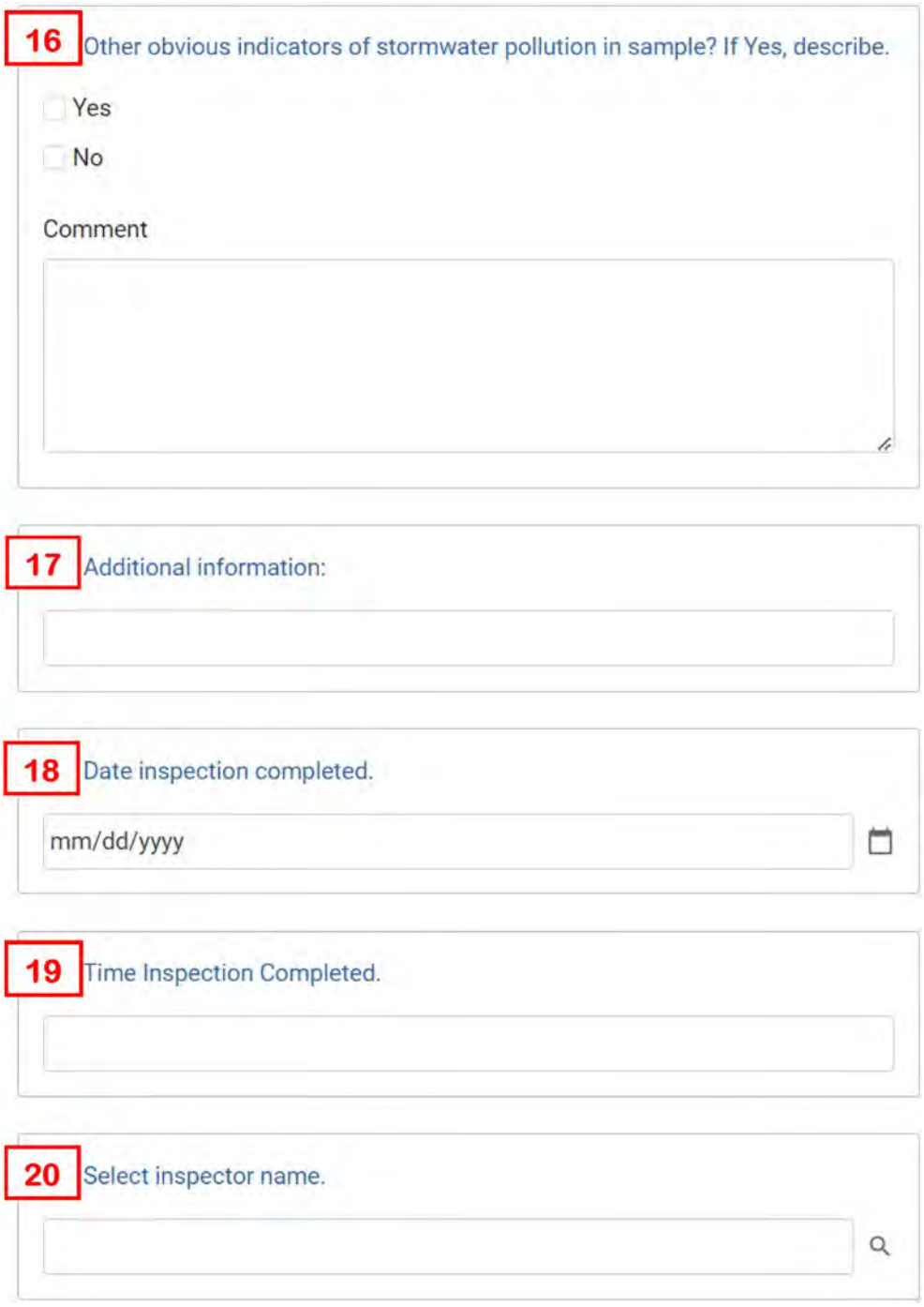
Section 4.2, Steps 4-6



Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)

(Page 5 of 6)

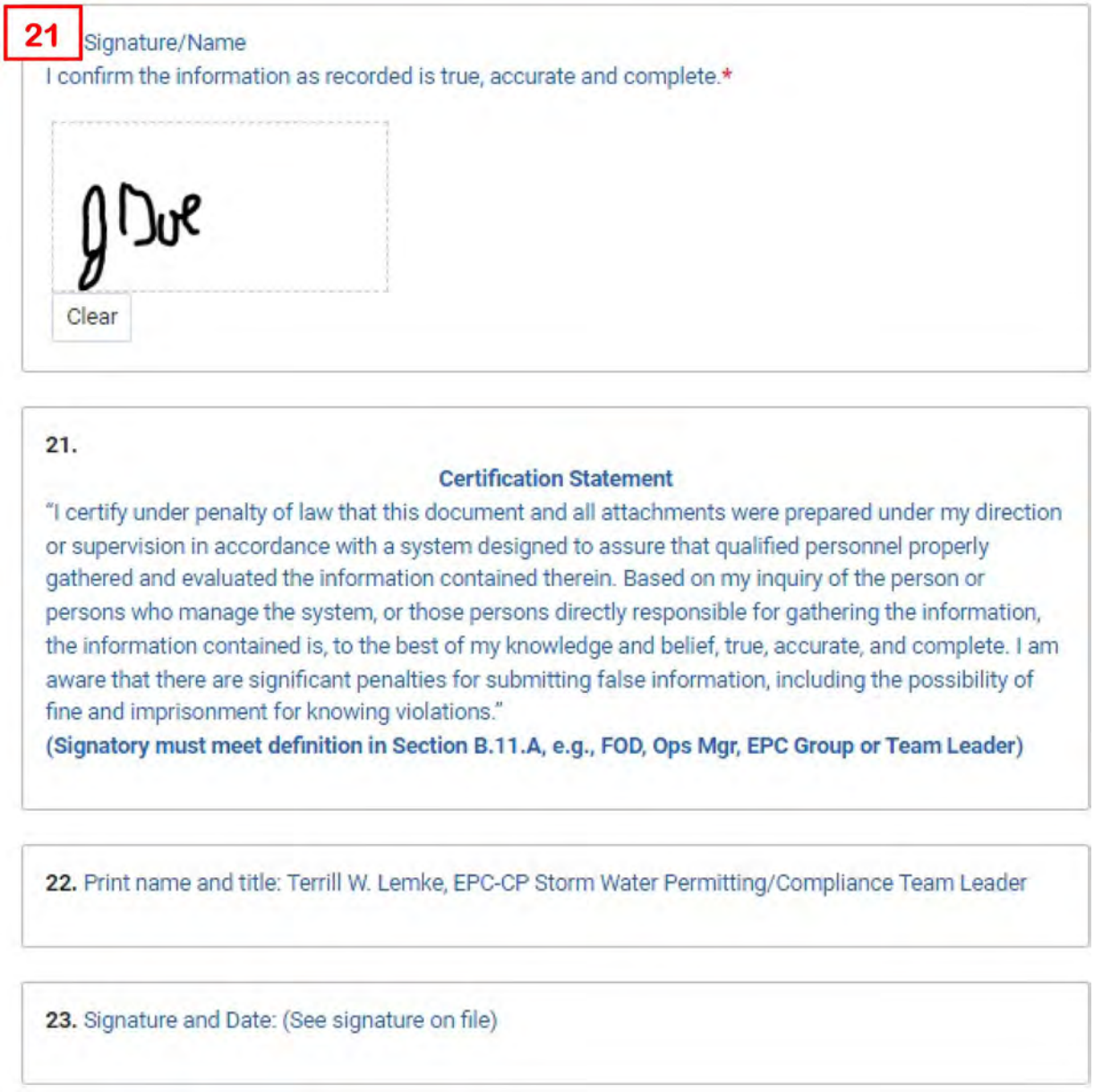
Section 4.2, Steps 9 and 11. Section 4.3, Steps 1-3



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 STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP*

EPC-CP-TP-2103	Revision: 1	Los Alamos NATIONAL LABORATORY
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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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

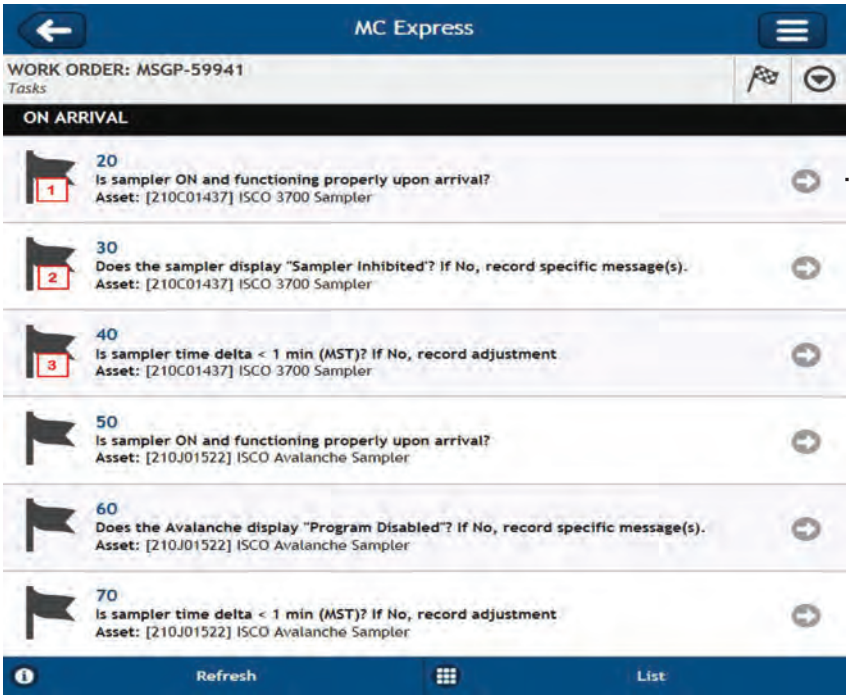
Attachment 3: Sample Retrieval Flow Diagram

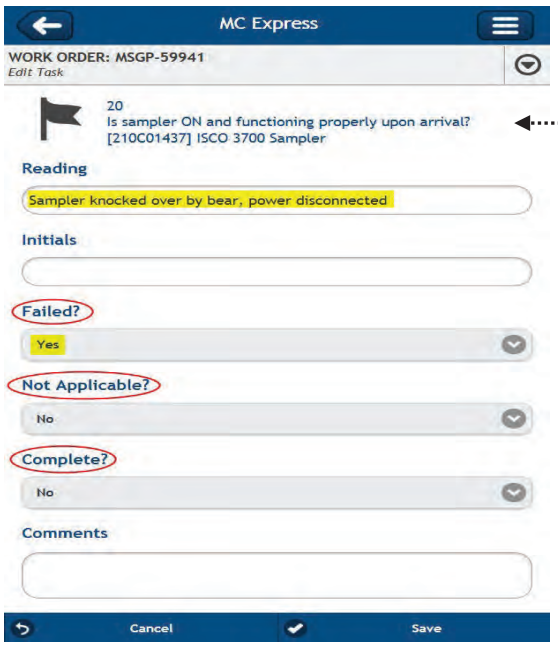
Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express
Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,
(Page 1 of 6)

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)

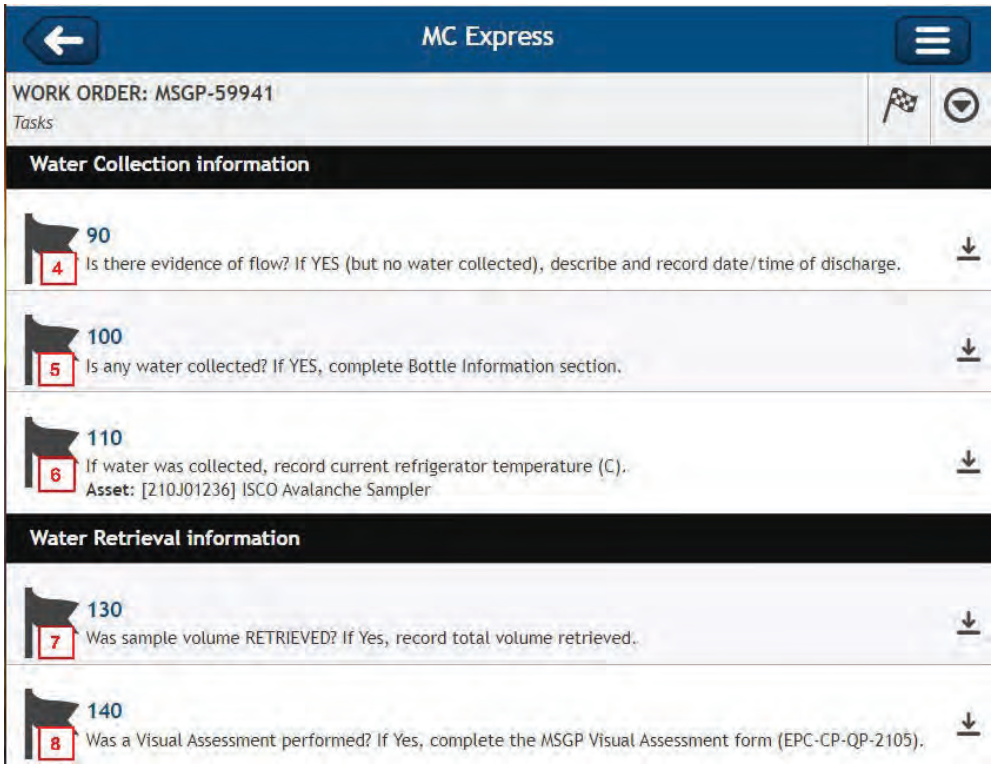
Work Order Tasks page - On Arrival (Section 4.1.1, Steps 2-5)



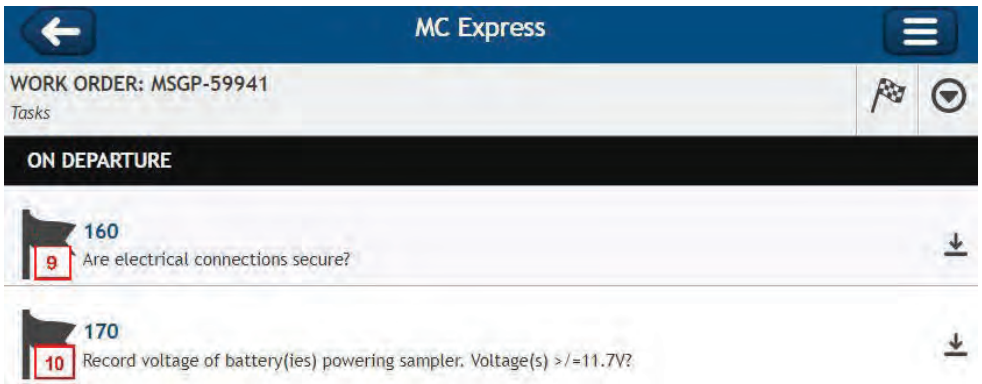


Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)
Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,
(Page 3 of 6)

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)

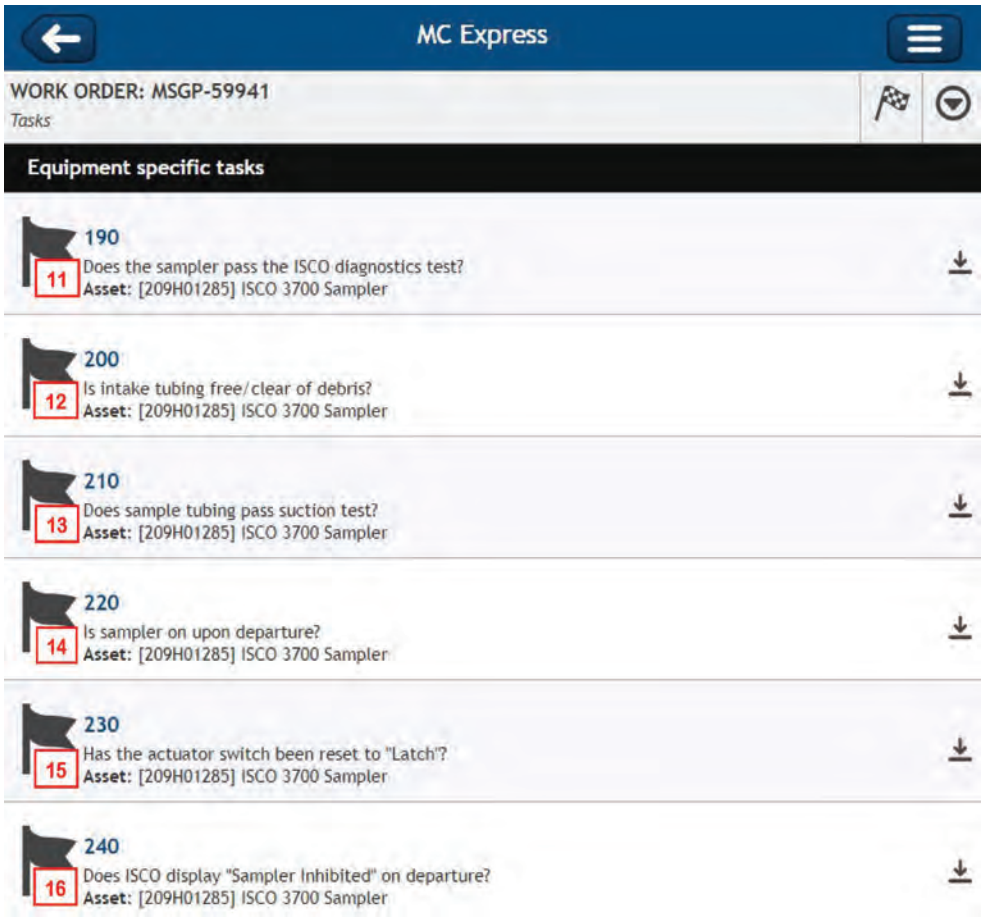


Work Order Task Page – On Departure (Sections 4.1.4, Steps 2 and 3)

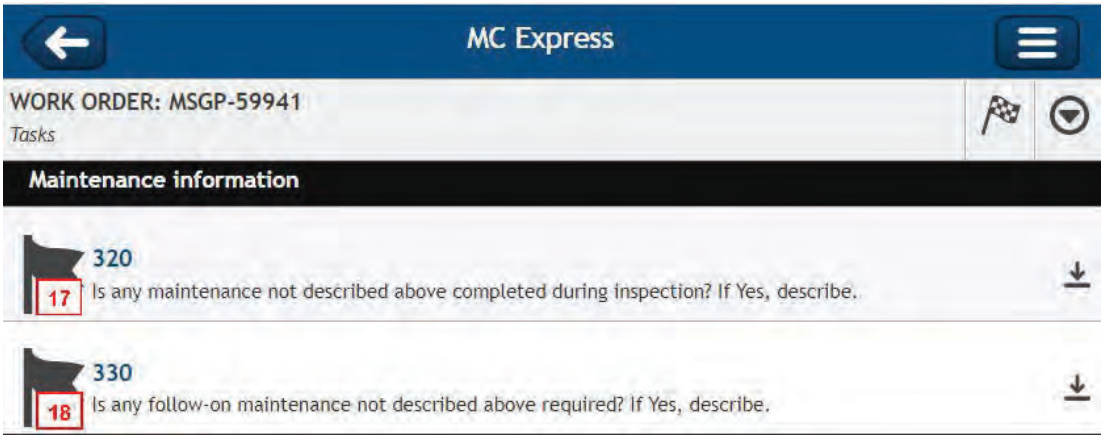


Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)
Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,
(Page 4 of 6)

Work Order Task Page – Equipment Specific Tasks (Sections 4.1.5, Steps 1-8)

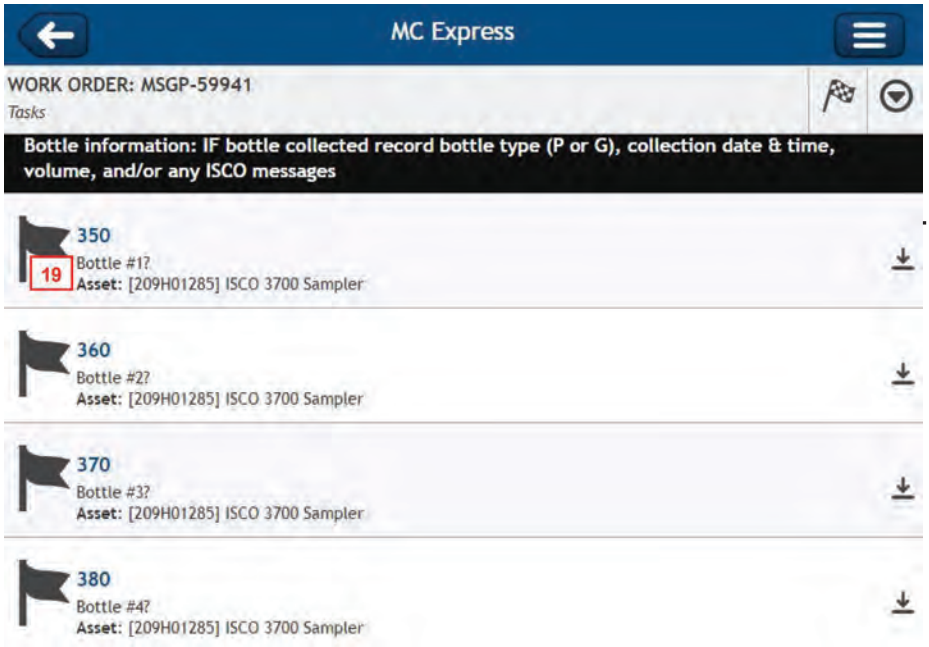


Work Order Task Page – Maintenance Information (Sections 4.1.6, Steps 1-3)



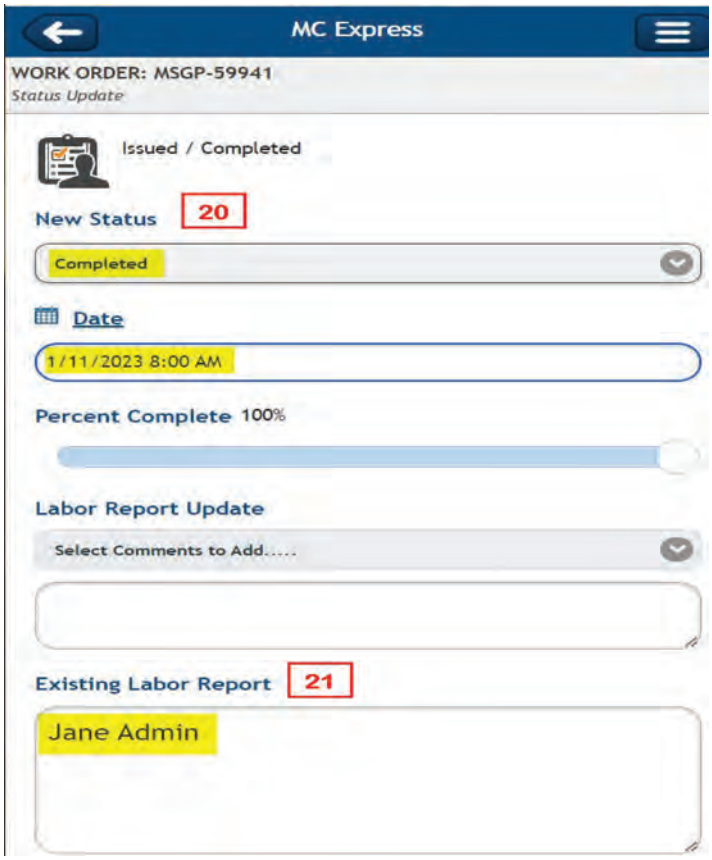
Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)
Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,
(Page 5 of 6)

Work Order Task Page – Bottle Information (Sections 4.1.7, Step 1)

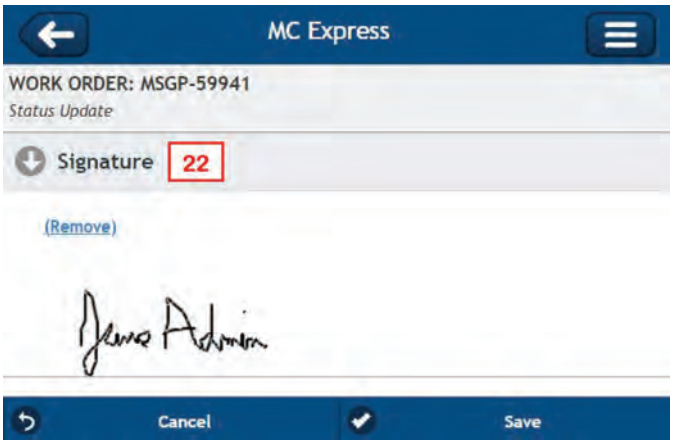


Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)
Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,
(Page 6 of 6)

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-5584)

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

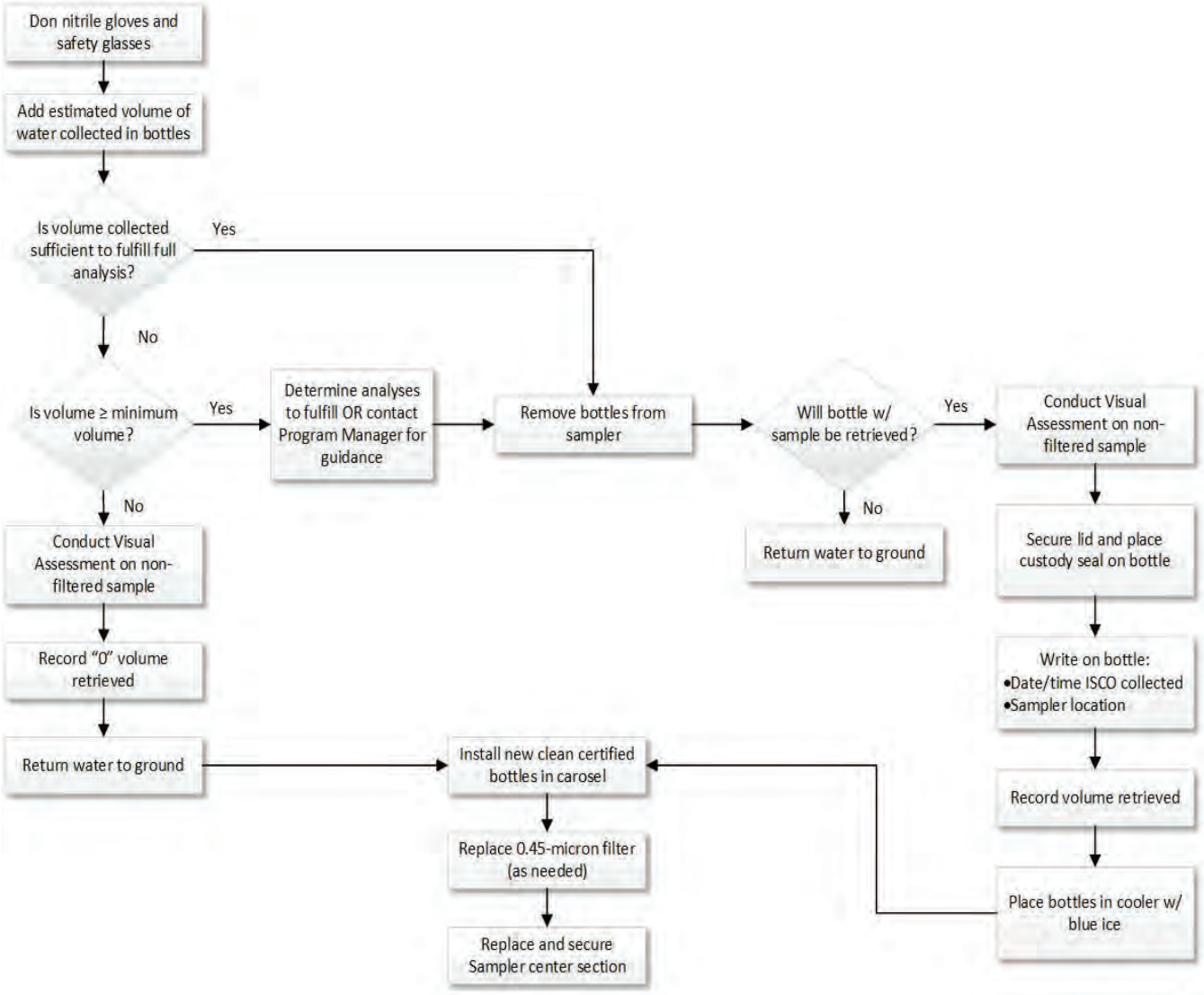
22 Jane Admin — Signature / Name; 1/11/2023 — Date; Signature / Name; Date

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

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: _____

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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	250 ~~500~~ ML POLY	1	ICE	Y	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

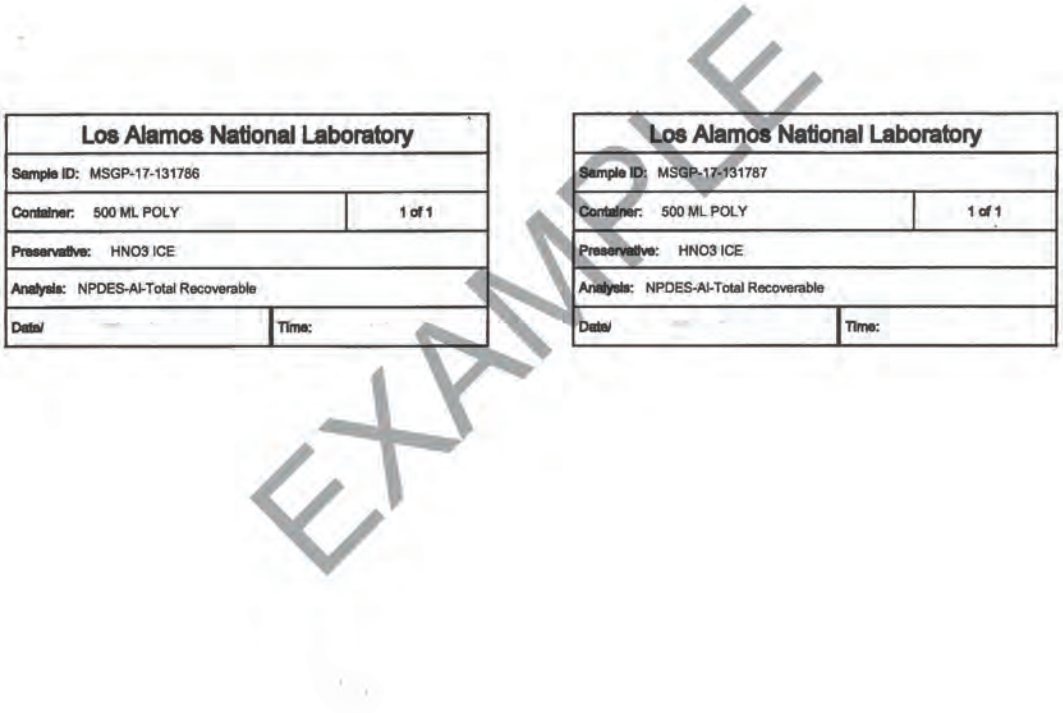
COLLECTED BY (Printed Name) (Signature)	Jane Doe	Date/Time 07/03/18 09:25		
RELINQUISHED BY (Printed Name) (Signature)	Jane Doe	Date/Time 07/03/18 10:05	RECEIVED BY (Printed Name) (Signature)	John Smith Date/Time 07/03/18 10:05
PROCESSED BY (Printed Name) (Signature)	John Smith	Date/Time 07/03/18 13:00		
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)



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:

EXAMPLE

ATTACHMENT 21: EPC-DO-QP-0930, *ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS*

EPC-CP-QP-0903	Revision: **1**	Los Alamos NATIONAL LABORATORY
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Environment, Safety, Health, Quality, Safeguards, and Security Directorate

Environmental Protection and Compliance – Compliance Programs Group

Quality Procedure

Environmental Reporting Requirements for Releases or Events

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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.

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1.0 INTRODUCTION

This Environmental Protection and Compliance – Compliance Programs (EPC-CP) procedure describes how to determine whether an unplanned release, spill, fire, or other event 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 Laboratory and DOE management are specified in PD1200, *Emergency Management Program,* and 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 must be performed within the first 24-hours of the release. This procedure does **not** cover the response procedures for "continuous releases" under 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 at Los Alamos National Laboratory (LANL or the Laboratory) is reportable.

1.3 Applicability

This procedure applies to EPC-DO on-call representatives and subject matter experts (SMEs) who must respond to any release, spill, or event at the Laboratory that may 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 (IWD), has a **LOW hazard** rating and has been analyzed by an SME, the EPC-CP group leader and the responsible line manager (RLM), and is consistent with LANL P300, *Integrated Work Management* (IWM).

Actions specified within this procedure, unless preceded with "should" or "may," are to be considered mandatory (i.e., "shall", "will", "must").

3.0 PREREQUISITE ACTIONS

None.

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 at the Laboratory.

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. This list will be distributed to on-call representatives and Laboratory managers including Deputy Directorate for Operations (DDOPS), Associate Directorate for Environment, Safety, and Health, Quality, Safeguards & Security (ESHQSS), Emergency Operations Center (EOC), Environmental Protection and Compliance Division – Compliance Programs Group (EPC-CP), and the Environmental Stewardship Group (EPC-ES).

Note: the on-call list should also be available on the LANL internal website. Environmental Home page, Environmental Contacts – On-Call Schedule. The on-call representative can be reached by pager at 505-664-7722.

3.2 Collaboration with other Subject Matter Experts (SMEs)

If needed, coordinating with other on-call SMEs and the EOC to ensure the required notifications for environmental reporting and abnormal events are being addressed for the Laboratory.

4.0 PROCESS DESCRIPTION

4.1 Reporting Releases to Pueblo Environment Departments

The Memorandum of Agreement between the U.S. Department of Energy through the Los Alamos Field Office of the National Nuclear Security Administration (NNSA), the Office of Environmental Management (EM), and the Pueblo de San Ildefonso strengthens the existing relationship between 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 (NNSA and EM) and its contractors to follow the protocols between the parties.

The Cooperative Agreements between the Pueblos of Cochiti, Jemez, and Santa Clara and the Los Alamos National Laboratory 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 and the Pueblos, Triad will provide in-kind technical assistance to the Pueblos in areas of economic development, education, cultural resources, the environment, and emergency preparedness and response.

In the event of a release that impacts or may potentially impact Pueblo lands, notification to the impacted Pueblo Environment Department will be coordinated through the Laboratory's Tribal Liaison (505-629-2198) who will contact and notify the Department of Energy (DOE) Los Alamos Field Office (NA-LA) Intergovernmental Specialist to notify the Pueblos pursuant to protocols. If the release is identified to be an emergency where activation of the EOC is necessary, the LANL Emergency Response Organization will be responsible for contacting the affected Pueblos in accordance with PD1200, *Emergency Management Program*.

A list of Pueblo contacts is kept at the Laboratory's Tribal Liaison's office.

4.2 Responsibility of On-Call Representatives

The EPC on-call representative is the party primarily responsible for:

1) Responding to any notifications received on the Spills/Unplanned Release pager.
2) Determining if the incident will require immediate notification to external agencies in accordance with LANL, state, and federal regulatory reporting requirements.
3) Notifying EPC Division management of immediate reporting requirements.
4) In the event that the release is a non-emergency 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 contact and notify the Department of Energy (DOE) Los Alamos Field Office (NA-LA) Intergovernmental Specialist to notify the Pueblos and the Office of Environmental Management if necessary.

The EPC on-call representative is not responsible for the following and EOC will make these determinations:

1) If the Resource Conservation Recovery Act (RCRA) Contingency Plan must be implemented.
2) If a shock-sensitive material, leaking, or compromised gas cylinder constitutes an emergency.
3) If the release is associated with an emergency where activation of the EOC is necessary, and if so, contacting the affected Pueblos in accordance with PD1200, *Emergency Management Program*.

However, in order to ensure that the appropriate expertise is available for the affected media, the EPC on-call representative may 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 remaining steps in this procedure may be passed to that person. See the link for EPC Contacts: Environmental Protection and Waste Management Contacts list.

Note: The Pueblo Environmental Department(s) notification process will be implemented in parallel with regulatory- or permit-driven reporting. In the event of a conflict 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.

LANL management and Department of Energy (DOE) Los Alamos Field Office (NA-LA) must be informed as soon as possible that a report was or will be made, but their approval is not required prior to the report being made to the regulatory agency. LANL Facility Operations Director (FOD) management, with input from EPC SMEs, will determine if an Occurrence Reporting Processing System (ORPS) report or other type of Lessons Learned will be necessary.

***NOTE*:** EOC maintains a current list of on-call LANL managers.

4.5 Using this procedure

This procedure has seven separate paths (and corresponding sections) to follow for determining if a release or event is reportable. Follow each of these paths to determine if one or more are applicable:

[1] Resource Conservation and Recovery Act (RCRA)

[2] Toxic Substances Control Act (TSCA)

[3] Clean Water Act (CWA), New Mexico Water Quality Act (NMWQA), and New Mexico Water Quality Control Commission (NMWQCC) Regulations

[4] Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Emergency Planning and Community Right-to-Know Act (EPCRA)

[5] Clean Air Act (CAA)

[6] Biological

- [a] Endangered Species Act
- [b] Bald and Golden Eagle Protection Act
- [c] Migratory Bird Treaty Act
- [d] New Mexico Wildlife Conservation Act

[7] Cultural

- [a] National Environmental Policy Act (NEPA)
- [b] National Historic Preservation Act
- [c] Native American Graves Protection and Repatriation Act
- [d] 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 may not be met, **but the release may be reportable** under RCRA, New Mexico Water Quality Control Commission (NMWQCC), and/or Clean Water Act (CWA) requirements.

***NOTE*:** The 24-hour deadline (immediate in some cases) applies regardless of whether it occurs during business hours, after business hours or on non-business days.

4.5.1 Determining if a Release is Reportable under RCRA

Follow the flow chart in Attachment 1 to determine if an event is reportable under RCRA regulations.

Under the RCRA permit No. NM0890010515-1 requirements, the EOC manager determines if the "RCRA Contingency Plan" provisions should be implemented. The EPC on-call representative or an EPC Waste Management Programs (EPC-WMP) RCRA SME performs notifications that may be required.

The EOC Manager will normally attempt to contact an EPC-WMP SME for guidance in making this decision. If the EPC-WMP SME is successfully contacted, the remaining steps for determining if a release is reportable under RCRA may be passed on to this individual.

The EPC on-call representative makes the determination that one or more of these conditions occurred through consultation with EPC-WMP and appropriate SMEs. The 24-hour notification can be made by the EPC on-call representative or by an EPC SME.

The EOC manager makes the determination that unstable chemicals, leaking, or compromised gas cylinders represent an emergency situation. The EOC manager works with EPC-WMP to ensure that 24-hour notifications are made by the on-call representative or EPC-WMP SME.

If a release/event is reportable under RCRA rules, determine if the release/event is reportable under other rules and proceed to Section 4.4.5 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 Environmental Protection Agency (EPA) under TSCA if 1 pound 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 over 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, EPCRA, or Other Regulations* to determine if the RQ for PCBs has also been exceeded.

There are six items containing PCBs that are out of service at the Chemistry and Metallurgy Research (CMR) Building. They are scheduled for removal within the next year or so. All other known PCB equipment at the Laboratory have 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/event is reportable under other rules and proceed to *Reporting a Release or Event* and determine if additional reporting is necessary.

If the spill is ...	**Then...**
equal to or over 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 (1-800-242-8802) immediately (within 15 minutes of discovery). Additionally, contact EPA Region 6 (Office of Prevention, Pesticides and Toxic Substances Branch) 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 NM Water Quality Act (NMWQA) does not use Reportable Quantities (as described in the next section). Instead, the NM Water Quality Control Commission (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."*

The above rule requires the use of professional judgment to determine the magnitude and extent of the release and ultimately if external reporting is required. While no quantifiable metric is available to assist in making this determination, in general if any of the following three conditions are met external reporting will be completed:

1) more than 10-gallons of oil or other liquid is released,
2) if any volume of oil or other liquid reaches a watercourse, or
3) if it adversely impacts a Solid Waste Management Unit (SWMU) or Area of Concern (AOC), for example, requiring excavation or causing erosion.

The EPC on-call representative or SME has the authority and responsibility to make this determination.

Additionally, unplanned releases of potable water or steam condensate require reporting pursuant to 20.6.2.1203 NMAC as directed in the LANL Liquid Discharge Reporting Guidance (Decision Tree), dated March 10, 2009, if:

1) the release reaches a watercourse,
2) it adversely impacts a SWMU or AOC, or
3) a volume greater than 5,000 gallons is discharged (per location per day).

Consult with the Triad LLC, EPC-WMP Consent Order Site coordinator to confirm the location and to determine if there are potential impacts to SWMUs or AOCs from any releases that may occur.

Groundwater Discharge Permit Reporting

The Laboratory has three current or draft Groundwater Discharge Permits (DPs) that include notification and reporting requirements in the event of an unpermitted discharge. Spills of **any volume** associated with any of the Groundwater DPs require reporting to NMED pursuant to 20.6.2.1203 NMAC.

1) **DP-857: Sanitary Waste Water System (SWWS) Plant, Sanitary Effluent Reclamation Facility (SERF), and Sigma Mesa Evaporation Basins. Permit Condition No. 44.**

   The unauthorized release of untreated and treated sanitary wastewater, reuse wastewater, blended wastewater, and reject wastewater would be subject to reporting under Condition No. 44.

2) **DP-1589: Septic Tank/Disposal Systems. Permit Condition No. 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 would be subject to reporting under Condition No. 23.

3) **DP 1132: Radioactive Liquid Waste Treatment Facility (RLWTF). Permit Condition No. 38.**

   In the event of a release unauthorized in this Discharge Permit, 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, *Discharge of Oil*.

National Pollutant Discharge Elimination System (NPDES) Outfall Reporting

The EPC-DO on-call SME must provide notification to the NPDES Outfall Permit Program Lead and/or the EPC-CP Water Quality Team Leader in the event of a leak, unplanned release, overflow, or bypass of treatment from an NPDES permitted outfall and/or the sources upon discovery in order to meet applicable reporting requirements (i.e., 24-hr and 5-day written). Outfall sources include, but are not limited to, the following:

1) Sanitary Waste Water System (SWWS) equipment, tanks, lift stations, septic tanks, and piping.

2) Sanitary Effluent Reclamation Facility (SERF) equipment, tanks, lift stations, and piping.
3) Radioactive Liquid Waste Treatment Facility (RLWTF) equipment, tanks, lift stations, and piping.
4) High Explosives Waste Treatment Facility (HEWTF) equipment, tanks, and piping.
5) Cooling towers.
6) Storage tanks (i.e., influent, effluent, reuse tank).
7) Other water treatment equipment and piping.

4.5.3.1 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 within 24-hours of a petroleum product release from regulated tanks to the NMED Petroleum Storage Tank Bureau (PSTB) when there is:

1) any suspected or confirmed release of regulated substances
2) evidence of release of regulated substances
3) unusual operational conditions (that would cause concern about a release)
4) monitoring results that show loss from the system

Regulated tanks include those with a capacity between 1,320 gallons and 55,000 gallons. Regulated substances for Aboveground Storage Tanks (AST) includes, but is not limited to, petroleum and petroleum-based substances comprised of 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 needs to be completed within 24 hours. Contact the EPC-CP AST Program Leader and/or the EPC-CP Water Quality Team Leader prior to completing any external notifications. The PSTB can be reached at 505-476-4397 (Santa Fe PSTB District 2) during business hours and 505-827-9329 (NMED Emergency Spill Hotline) during non-business hours. The NRC must be contacted at (800) 424-8802 immediately if oil or a sheen of oil from a spill or release hits a watercourse. A written report describing the spill, release or suspected release and any investigation or follow-up action needs to be submitted to the PSTB within 7 days of the incident.

If a facility discharges greater 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 twelve month period, the facility shall submit a report to the EPA Regional Administrator within 60 days of the discharge per 40 CFR 112.4.

4.5.3.2 Reporting Requirements under the NPDES Pesticide General Permit

Adverse incidents require reporting to the EPA under the NPDES Pesticide General Permit (PGP). An adverse incident is defined as an unusual or unexpected incident resulting from pesticide applications that an operator has observed upon inspection or of which the operator otherwise becomes aware, in that:

1) There is evidence that a person or non-target organism has likely been exposed to a pesticide residue, and
2) 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 (e.g., effects are to organisms not otherwise described on the pesticide product label or otherwise not expected to be present) as a result of exposure to a pesticide residue, and may include:

   [a] Distressed or dead juvenile and small fishes

   [b] Washed up or floating fish

   [c] Fish swimming abnormally or erratically

   [d] Fish lying lethargically at water surface or in shallow water

   [e] Fish that are listless or nonresponsive to disturbance

   [f] Stunting, wilting, or desiccation of non-target submerged or emergent aquatic plants

   [g] 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 (e.g., sickness from consumption of plants or animals containing pesticides) to Waters of the United States that are temporally and spatially related to exposure to a pesticide residue (e.g., vomiting, lethargy).

If an operator observes or otherwise becomes aware of an adverse incident due to 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 affecting a federally listed threatened or endangered species or its federally designated critical habitat, that may 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. Information on the RQ program as implemented by the DOE is on the web at:

https://www.energy.gov/ehss/services/environment/environmental-policy-and-assistance/reportable-quantity-calculator

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.

   [a] 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 has also approved use of an on-line "Reportable Quantity Calculator" that can be used to assist in this determination. The RQ calculator is located at: https://rqcalculator.projectenhancement.com/

   [b] 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.

   [c] For mixtures of hazardous materials and/or radionuclides, or when the hazardous material table and radionuclide table are in conflict, the lowest RQ shall apply.

   [d] If an RQ is met or exceeded, an immediate (within 15 minutes of discovery) notification must be made to the NRC (1-800-424-8802) pursuant to 40 CFR 302.6, *Notification of Requirements*.

   [e] 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 the NRC notifications have been completed. The EPA Region 6 Health Physicist can be reached at:

   Office-(214) 665-8541; Mobile-(214) 755-1530; Home-(972) 937-1900.

   The team leader for Radioactive Air Emissions Management (RAEM) in EPC-CP can provide assistance with determining RQs and releases for radioactive material releases and with notifying EPA Region 6.

   [f] If an RQ is not exceeded, notify the appropriate media SME so they can perform any required follow-up notification and documentation with the appropriate regulatory agency.

3) Additional notifications under EPCRA must be made if a release of a hazardous or extremely hazardous substance listed in 40 CFR 355 Appendices A and B occurs.

[a] If an extremely hazardous substance is not listed in the statute, the RQ has been set by Congress to be 1 pound.

[b] If the released quantity meets or exceeds the RQ established under EPCRA, in addition to notifying the NRC above, an immediate (within 15 minutes of discovery) notification must be made to the Local Emergency Planning Committee (LEPC) community emergency coordinator and to the State Emergency Response Commission (SERC) (see Attachment 2 for contact information).

The lists of CERCLA hazardous substances and EPCRA extremely hazardous substances are two separate lists that include a number of common substances. However, not all extremely hazardous substances are listed hazardous substances. In some instances, a release of an extremely hazardous substance may 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.

4.5.4.1 Regulatory Classification of the Released Material

The on-call EPC SME will determine the regulatory classification of the substance released with respect to the hazard classifications:

1) Extremely Hazardous Substance (EHS) and/or Hazardous Substance (HS)

Often during the course of an emergency, complete information will not be available regarding type and amount of material released. In this case, best professional judgment must be used to establish the level of confidence associated with the estimates. If the uncertainty is high enough that future estimates may 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 (e.g., 4 pounds of chlorine gas or 150 curies of tritium).

2) Compare this quantity against the RQs provided in 40 CFR Table 302.4 and 40 CFR 355, Appendices A and B.

   If this 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. Note that for radioactive materials, the RQ is provided in activity units (curies or becquerels). Also, note that some materials have an RQ value for both chemical exposure (Table 302.4) and for radiological exposure (Appendix B to 302.4). In these cases, the RQ applying to the smallest quantity of material will apply.

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)

[a] **If the release…**Is equal to or greater than the RQ then Proceed to Section 4.5.6 Reporting a Release or Event.

[b] **If the release…**Is less than the RQ, then No immediate reporting is required. Contact an environmental health physicist in EPC-CP or EPC-ES to complete follow-up dose assessment.

4) If this is a release of non-rad material, it is reportable if the RQ is exceeded:

[a] **If** the **amount released is…**Equal to or greater than the RQ, then proceed to Section 4.5.6 Reporting a Release or Event.

5) Continue to re-evaluate the release as new data becomes available. Perform Steps 1 through 4 as necessary.

4.5.5 Determining Release Impacts to Biological or Cultural Resources

There are laws and regulations related to the protection of biological and cultural resources that are applicable to the Laboratory. These laws and regulations include:

1) National Environmental Policy Act (NEPA)
2) Endangered Species Act
3) Bald and Golden Eagle Protection Act
4) Migratory Bird Treaty Act
5) New Mexico Wildlife Conservation Act
6) National Historic Preservation Act
7) Native American Graves Protection and Repatriation Act
8) Archaeological Resources Protection Act

The EPC-CP SME is responsible for contacting a biological resources SME and a cultural resources SME within one business day from when a release/event occurs. This allows biological and cultural resources staff to report to their regulators within the required timeframe, identify if additional requirements are necessary for clean-up activities, and complete any other associated compliance regulations. The cultural resources SME will identify if there are impacts from the release/event to archaeological sites or historic buildings/structures.

Additionally, if there is a release of contaminants to a wetland, or impacts to 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.

Contact a Biological Resources SME through the EPC-ES group office at 505-665-8855 and epc_biologists@lanl.gov as parallel contact information for Biological Resources.

Contact a Cultural Resources SME through the EPC-ES group office at 505-665-8855 or use cultural@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.

For informational purposes, a Summary of Emergency Release or Event Reporting Requirements is provided in Attachment 2. This document summarizes the primary statutes and the associated reporting requirements.

Maintain a notebook to record pertinent information about the release and to document the actions taken (see Section 6.0 *Records*).

Any release to the environment that has been determined to be reportable by the EPC on-call representative or SME shall be reported through the LANL management chain in accordance with PD1200, *Emergency Management Program,* and P322-4, *Performance Improvement from Abnormal Events.*

Triad management and DOE shall be notified if a release notification to state or federal regulatory agencies is required. Management approval is not required prior to completing environmental notifications to the regulatory agencies in order to assure that the deadline for reporting is not exceeded.

Perform the following steps immediately after establishing that reporting is required:

1) Compile release information including:
    a) The source, cause, type and quantity of the release;
    b) Time and duration of the release;
    c) Extent of any protective and corrective actions taken;
    d) Name, address, and telephone number of the person to contact for further information
    e) Whether the substance is an HS or EHS
    f) Associated health risks and medical attention necessary for exposed individuals;
    g) If available, information concerning the release of any contaminants, hazardous and/or mixed waste that may endanger public or private drinking water supplies;

h) Assessment health risks and medical attention necessary for exposed individuals;

i) If available, estimated quantity and disposition of recovered material that resulted from the incident;

j) Precautions to take due to the release/event, including, in the case of fire, those associated with special hazards due to the release of contaminants, hazardous and/or mixed waste;

k) Any other information that may help emergency personnel responding to the incident; and

l) Environmental media impacted from the release,

2) Notify LANL management, the Laboratory Tribal Liaison, and the respective FOD.

NOTE: Management approval is not required prior to completing environmental notifications to the regulatory agencies in order to assure that the deadline for reporting is not exceeded.

3) Provide notification to the regulatory agency as required by the applicable regulation(s) detailed in Sections 4.5.1 – 4.5.4. Reference Attachment 2 for a summary of the applicable reporting requirements.

4) Notify programmatic SMEs that may be impacted or required to complete follow-up reporting.

4.5.7 Steps to Notify LANL Management, the Laboratory Tribal Liaison, and Department of Energy Los Alamos Field Office (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*:** Occurrence Reporting and Procession System (ORPS) reporting is a FOD and Responsible Associate Director (RAD) responsibility and 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-DO Division Leader of the release and the required external notifications.

3) Provide notification to the Laboratory Tribal Liaison (if release/event impacts or may potentially 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 contact and notify the Department of Energy (DOE) Los Alamos Field Office (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 that may be impacted or be required to complete follow-up release reporting.

After all 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 group that will be responsible will depend on the type and location of the release and the governing regulations or statutes.)

In order to communicate events at LANL that may impact the public and or the environment, EPC staff may provide a courtesy notification to NMED of events that may not require formal regulatory notification. Examples of such events in the past have been small wildland fires.

5.0 TRAINING

The training method for this procedure will be "self-study" (reading) and is documented in accordance with PD781, *Training Program Management.*

The following personnel require training before implementing this procedure:

- EPC managers, designated on-call representatives, and SMEs who may be asked to fulfill immediate reporting requirements during release-related exercises or during actual releases.

Annual retraining to this procedure is required.

6.0 RECORDS

EPC-CP is the Office of Record for this document and must be maintained in accordance with P1020-1, *Laboratory Records Management*. Records generated by this document will be submitted to the records management designated point-of-contact or document manager for document management.

- Field documentation of the release, include:
  - Time and date of the release
  - Time, date, and description of notifications
  - Location and source of the release
  - Type of material released
  - Quantity of material released
  - Impacted media
  - Time release was stopped
  - Any immediate mitigation actions taken to contain or control the release

  - Documentation of any verbal notifications
  - Samples taken
- Copies of any written notifications generated
- Documentation of any analytical results and quality assurance of results
- Contingency and/or emergency plan documentation
- Documentation of any RCRA permit non-compliance that threatens human health and environment
- Documentation of treatment of any RCRA unstable chemicals, leaking, or compromised gas cylinders

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
Copies of any written notifications generated	☒	☐
Documentation of any analytical results, and quality assurance of results	☒	☐
Contingency and / or emergency plan documentation	☒	☐
Documentation of any RCRA permit non-compliance that threatens human health and environment	☒	☐
Documentation of treatment of any RCRA unstable chemicals, leaking or compromised gas cylinders	☒	☐

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

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 Substance (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 Substance (HS) – These substances are summarized in 40 CFR Part 302. As used in this context, this refers to:

1) any elements, compounds, mixtures, solutions, or substances specially designated by EPA under Section 311 of the Clean Water Act (CWA) (40 CFR 116.4);
2) any toxic pollutants listed under Section 307(a) of the CWA;
3) any hazardous substances regulated under Section 311 (b)(2)(A) of the CWA;
4) any listed or characteristic RCRA hazardous waste (40 CFR 261),
5) any hazardous air pollutants listed under Section 112 of the Clean Air Act (CAA); or
6) any imminently hazardous chemical substances or mixtures regulated under Section 7 of the Toxic Substances Control Act (TSCA).

Release – Any unpermitted spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of contaminants into the environment, excluding:

1) emissions from the engine exhaust of any vehicle,
2) certain releases of source, byproduct, or special nuclear material from a nuclear incident, or
3) normal application of fertilizer.

7.2 Acronyms

AOC	Area of Concern
AST	Aboveground Storage Tank
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CMR	Chemistry and Metallurgy Research
CFR	Code of Federal Regulations
CWA	Clean Water Act
DDOPS	Deputy Directorate for Operations
DOE	Depart of Energy
DOE-LAFO	Department of Energy – Los Alamos Field Office
EHS	Extremely Hazardous Substance
EM	Office of Environmental Management
EOC	Emergency Operations Center
EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance – Compliance Programs Group
EPC-DO	Environmental Protection and Compliance Division
EPC-ES	Environmental Protection and Compliance – Environmental Stewardship Group

EPCRA	Emergency Planning and Community Right-to-Know-Act
EPC-WMP	Environmental Protection and Compliance – Waste Management Programs Group
ESHQSS	Environment, Safety, Health, Quality, Safeguards and Security
FOD	Facility Operations Director
GWDP	Ground Water Discharge Permit
HEWTF	High Explosives Waste Treatment Facility
HS	Hazardous Substance
IWD	Integrated Work Document
IWD	Integrated Work Document
LANS	Los Alamos National Security
LANL or Laboratory	Los Alamos National Laboratory
LEPC	Local Emergency Planning Committee
MOA	Memorandum of Agreement
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
NNSA	National Nuclear Security Administration
NPDES	National Pollutant Discharge Elimination System
NRC	National Response Center
ORPS	Occurrence Reporting and Processing System
OSC	On-Scene Commander
PADOPS	Principal Associate Directorate Operations
PCBs	Polychlorinated Biphenyls
PGP	Pesticide General Permit
PST	Petroleum Storage Tank
PSTB	Petroleum Storage Tank Bureau
QP	Quality Procedure
RAD	Responsible Associate Director
RAEM	Radioactive Air Emissions Management team within EPC-CP
RCRA	Resource Conservation and Recovery Act
RLM	Responsible Line Manager
RQ	Reportable Quantity
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
SERC	State Emergency Response Commission
SERF	Sanitary Effluent Reclamation Facility

SEO-DO	Security and Emergency Operations Division
SME	Subject Matter Expert
SWMU	Solid Waste Management Unit
SWWS	Sanitary Waste Water System
TSCA	Toxic Substances Control Act
UIC	Underground Injection Control

8.0 REFERENCES

40 CFR 261, Protection of Environmental, Identification and Listing of Hazardous Waste

40 CFR 302, Protection of Environment, EPA, Designation, Reportable Quantities, and Notification

40 CFR 302.4, Designation of Hazardous Substances

40.CFR.302.6, Notification of Requirements

40 CFR 355, Emergency Planning & Notification

40 CFR 761.125(a)(1), Requirements for PCB spill cleanup

40 CFR 110.6, Discharge of Oil

20.5.7 NMAC, Environmental Protection, Petroleum Storage Tanks - Reporting Investigations of Suspected and Confirmed Releases

DOE – Office of Environmental Guidance, CERCLA Information Brief, EH-231-001-0490 (April 1990)

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

PD1200, *Emergency Management Program*

P1020-1, Laboratory Records Management

P300, Integrated Work Management

PD781, Training Program Management

P322-3*, Performance Improvement from Abnormal Events*

LANL RCRA Permit No. NM0890010515-1

LANL NPDES Permit No. NM0028355

National Response Center (NRC) Web Site: http://www.nrc.uscg.mil/

NMWQCC Regulations, 20.6.2 NMAC, dated December 1, 2001

New Mexico Environment Department Groundwater Discharge Permit DP-857

New Mexico Environment Department Groundwater Discharge Permit DP-1132

New Mexico Environment Department Groundwater Discharge Permit DP-1589

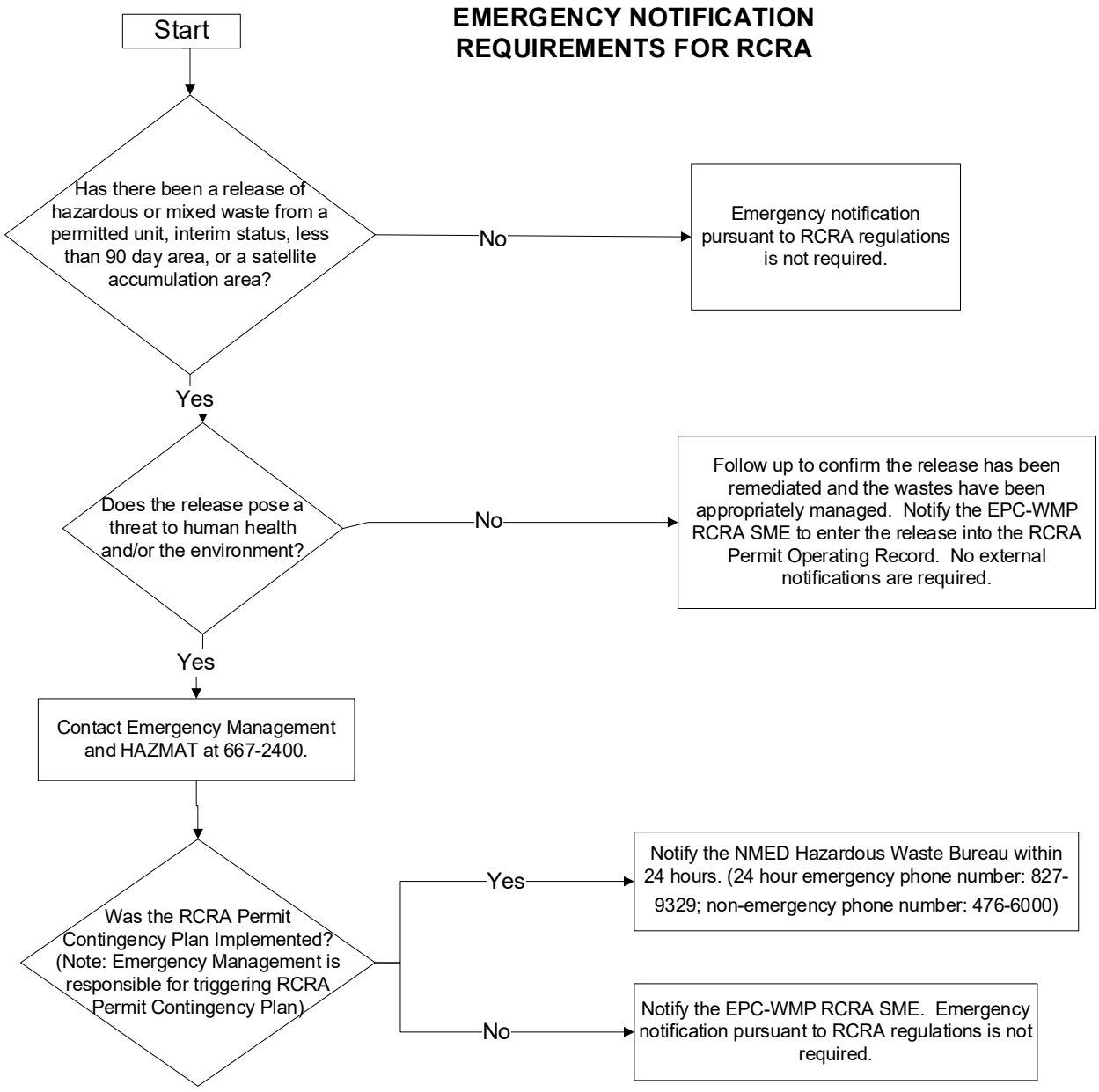
New Mexico Administrative Code (NMAC) 20.5.7

9.0 APPENDICES

10.0 ATTACHMENTS

Attachment 1: *Emergency Notification Requirements for RCRA*
Attachment 2: *Summary of Emergency Release or Event Reporting Requirements*

Attachment 1: Emergency Notification Requirements for RCRA



Attachment 2: Summary of Emergency Release or Event Reporting Requirements

NOTE: This 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/discoloration) to water surface or shoreline, or violation of water quality standards.	Immediately (within 15 minutes of discovery) notify the National Response Center.	Follow-up 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.	Required follow-up reporting will be completed by the NPDES Outfall Permit Program Lead and EPC-CP Water Quality Team Leader.
Clean Water Act (CWA)-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 (NMWQCC 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, 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 EPA Region 6 on the 7 and 15 Day Reports).
New Mexico Water Quality Control Commission Regulations (NMWQCC Regulations)	20.6.2.3104 NMAC	Unplanned release of any volume from an activity or facility covered under an active Groundwater DP: DP-857: SWWS Plant, SERF, and Sigma Mesa Evaporation Basins DP-1589: Septic Tank/Disposal Systems 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 EPA Region 6 on the 7 and 15 Day Reports)

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 regulated aboveground storage tank that 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 prior to completing any external notifications. If required, the Petroleum Storage Tank Bureau (476-4397) or NMED Emergency Spill Hotline (505-827-9329) must be contacted within 24 hours.	A written report describing the spill, release or suspected release and any investigation or follow-up action needs to 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 1000 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 prior to completing any external notifications.	A written report describing the cause of the release / discharge of oil, corrective actions, measure's to prevent recurrence shall 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 1-800-424-8802.	Follow-up 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 RQ.	Immediately (within 15 minutes of discovery) notify the LEPC (505-662-8283) 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 only required for a release of an Extremely Hazardous Substance.	A written follow-up emergency notice must be submitted to the LEPC and SERC as soon as practicable after the release.

STATUTE	REGULATIONS	INCIDENT	Immediate Reporting Requirements	Follow Up Reporting Requirements
Resource Conservation and Recovery Act (RCRA)	40 CFR 262.34, 263.30, 264.51, 264.56 & .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, less than 90 day area or a satellite accumulation area which the RCRA Permit Contingency Plan was triggered.	Notify NMED Hazardous Waste Bureau within 24 hours (24 hour emergency phone number: 827-9329; Non-emergency phone number: 476-6000) See Attachment 1 for additional 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 (Office- (214) 665-8541; Mobile- (214) 755-1530; Home – (972) 937-1900) immediately after providing notification to the NRC.	Follow-up will be coordinated by the EPC-CP RAEM team.
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 AQB no later than the end of the next business day after the exceedance was discovered. (Submitted on-line via NMED AQB Secure Extranet Portal (SEP)).	Submit final written report to NMED AQB within 10 business days.
Toxic Substance Control Act (TSCA)	40 CFR 761.120, 761.125	Over 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 (1-800-242-8802) and the EPA Region 6 Office of Prevention, Pesticides, and Toxic Substances Branch (1-866-372-7745) as soon as	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: _____

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Steve Pearson	EPC-CP	Signature on File	06/05/2023

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Name:	Organization:	Signature:	Date:
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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 24/7 - Non-Emergency Hotline 24/7 - Emergency Hotline	 (866) 428-6535 (505) 827-9329	
Ground Water Quality Bureau Gerald Knutson Andrew Romero (DP 1132/any RLWTF releases)	(505) 827-2900 (505) 660-7189 (505) 660-8624	 Gerald.Knutson@env.nm.gov AndrewC.Romero@env.nm.gov
Surface Water Quality Bureau Levi Dean	(505) 827-0187 (505) 365-3337	 Levi.Dean@env.nm.gov
Hazardous Waste Bureau Stephen Connolly	(505) 476-6000 (505) 470-8495	 Stephen.connolly@env.nm.gov
US EPA Region 6 Nancy Williams	(800) 887-6063 (214) 665-7179	 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) https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/_assets/docs/environmental-contacts.pdf
EPC-CP On-Call Schedule https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/_assets/docs/EPC-OnCall-Schedule.pdf
Attachment 1 - continued
WM-WGS On-Call Schedule 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 https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/compliance-programs/env_pros.shtml
RQ Calculator https://rqcalculator.projectenhancement.com

Additional LANL Support		
UI-OPS Randy Vigil (for potable and sanitary wastewater releases) David Trujillo (LOG vehicles; roadway releases)	 (505) 695-8900 (505) 412-9523	 rvigil@lanl.gov dtrujillo@lanl.gov
LOG-HERG (Roads and Grounds) Bernadette Lopez	 (505) 695-3799	 lopez_b@lanl.gov
IF-OPS Bill Gorman (building related releases)	 (505) 695-8993	 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	☐ Anti-freeze/coolant	☐ Refrigerant Oil	
☐ Potable Water	☐ Steam Condensate	☐ Gasoline	
☐ Diesel	☐ Lubricants/Oils	☐ Other: _____	
Volume Spilled:	**Waste Volume Generated:**		
Source of Spill:	☐ Potable Water Line	☐ Radiator	
Vehicle ID:	☐ Fire Suppression System	☐ Condensate Line	
Equipment ID:	☐ Fuel Tank	☐ 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:			
Date Corrective Actions Completed:			
Did the spill enter or impact any of the following? (Check as many as apply)	☐ Floor Drain, if so please indicate affected facility _____		
☐ RCRA Treatment Storage Disposal Facility	☐ Watercourse/drainage area, if so please indicate _____		
☐ RCRA Satellite Accumulation Area	☐ Solid Waste Management Unit/Area of Concern, if so please indicate _____		
☐ RCRA <90 Day Storage Area	☐ None		
☐ NPDES MSGP Facility			
Did the spill occur inside or outside a building?	☐ Inside	☐ Outside	
Did the spill occur on: (Check as many as apply)	☐ Concrete	☐ Asphalt	
	☐ Carpeted Floor	☐ Graveled/Rocky Area	
	☐ Tile	☐ Soil/Vegetated Area	
	☐ Wooden Floor/Deck	☐ Other: _____	
Samples Collected:	☐ Soil	If samples were collected, indicate analytical suite:	
☐ None	☐ Air		
☐ Water	☐ Other: _____		
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			☐ Non-Reportable
Date Received:	**Severity Index:**	**Causal Analysis:**	☐ 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

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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

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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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 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): 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: 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: 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): 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.)

(Page 25 of 53)

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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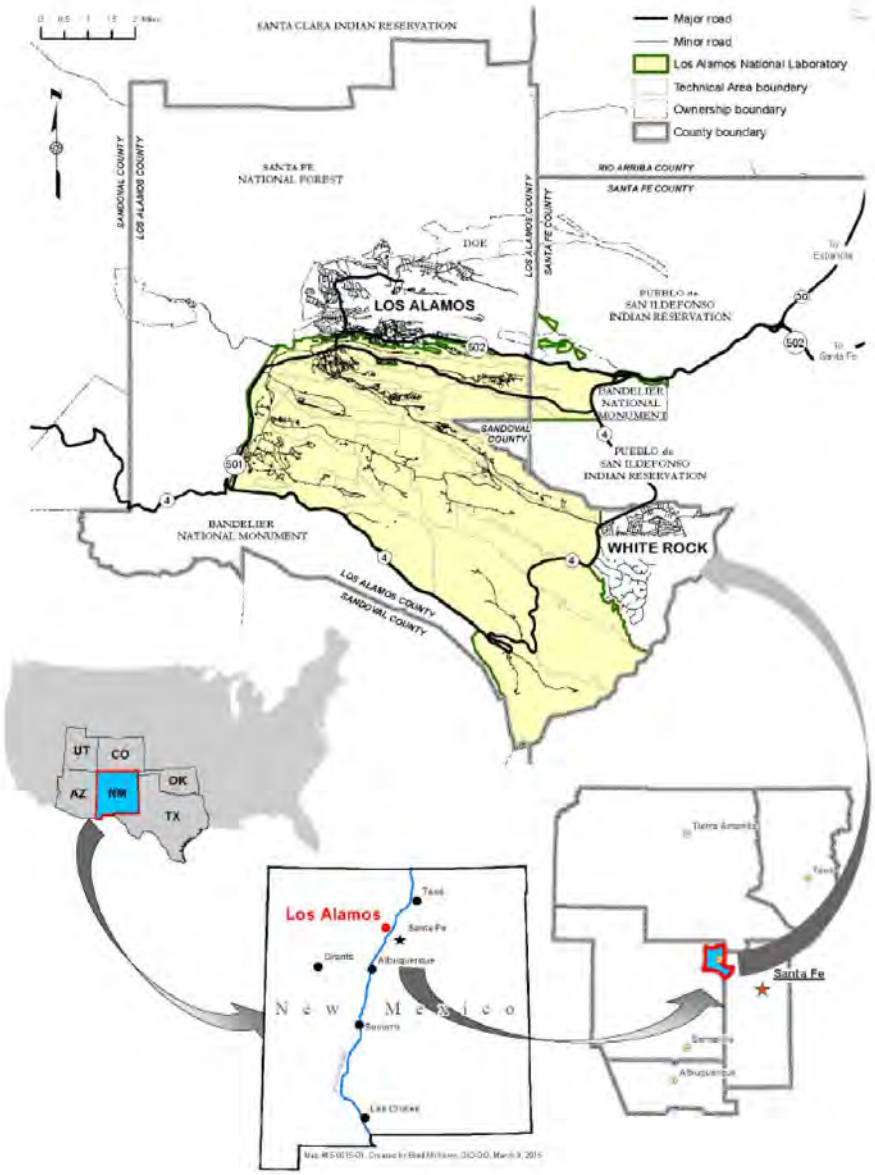
Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

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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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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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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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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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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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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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
Document Reference Number
Revision X, 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.)

Page 1 of X

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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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
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

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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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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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
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

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.

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Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

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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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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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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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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.)

(Page 53 of 53)

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? ***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? ***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.)

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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		

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Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 6 of 11)

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.)

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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.)

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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.)

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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: SPILL LOG

Date	Spill Location	What Spilled	Quantity Spilled	Corrective Action Taken	Affected Outfalls
1/22/2022	Sigma Mesa equipment staging area.	Hydraulic Fluid	1.5 Gallons	The hydraulic hose fitting under the Weiler Asphalt Milling Machine was tightened. Roads and Grounds containerized the affected soil.	None
12/19/2023	East end of 35,000-gallon oil tank. Loose fitting on oil piping equipment.	Heating oil	One cup	Mechanics secured the loose fitting to stop the leak. Road & Grounds containerized the affected soil and wiped the equipment with absorbents.	None
3/11/2024	NE end of 35,000-gallon oil tank.	Heating oil	4 Gallons	A damaged hose was replaced with a new hose. The heating oil was captured in a portable secondary containment.	None
4/30/2024	South perimeter of Asphalt Plant.	Hydraulic Fluid	4.5 Gallons	Bergman water tanker was delivered to TA-60 HEY for repairs to address the hydraulic leak. Roads and Grounds containerized the affected soil.	None

ATTACHMENT 25: 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)
Telephone: (505) 667-2211
Location: TA-0, Building 480
Website: https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/environmental-protection-compliance/index.shtml

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.

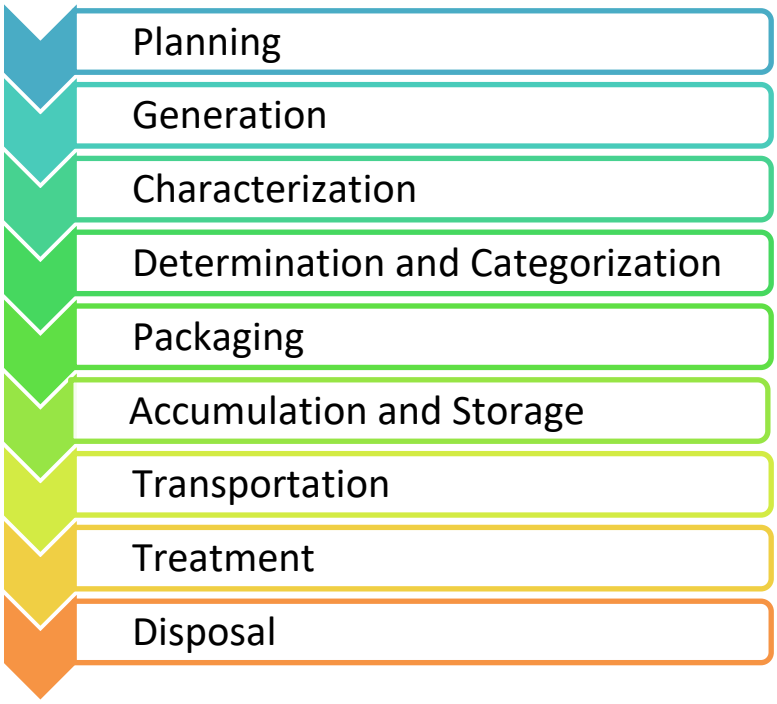

Fig.1. LANL Waste Management Process

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

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:

Guiding Principle
All waste generating organizations at LANL will make reasonable and intentional efforts to reduce waste volume and risk.

- 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. **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. 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. Move waste from UWA within 1 year of ASD. Move waste from TSDF within 1 year of ASD. 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. For NM Special waste, the date the waste container is deemed full and placed into storage. 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. Move waste from Rad Staging Area within 90 days of CD. 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. 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). Requires PRID and EPC-WMP authorization.	Only in a tank, container, or transport vehicle.
Absorption	Adding absorbent to a hazardous waste, Absorbent must be compatible with the waste and container. Requires PRID and EPC-WMP authorization. Biodegradable absorbents are prohibited. ***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. 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. Must comply with LANL's Hazardous Waste Facility Permit. 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. Process changes require a Permit modification. 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. 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. ▪ 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. ▪ 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 ▪ 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 ▪ 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 Admin. Change 3	Updated organizational names throughout document. Updated Sections 11.0, References, and 14.0, Contact.
04/11/19	P409, Rev. 7 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. Section 11.0: Deleted discontinued P409 Waste Management Tools.
02/18/20	P409, Rev. 7 Admin. Chg. 5	Section 11.0: Fixed hyperlinks to P409 Tools.
04/30/21	P409, Rev. 8	Published as PROVISIONAL until 04/30/2021. 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 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.* 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.* 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*. Corrected title of FSD-P409-0800 referenced throughout document. Updated hyperlinks.
11/30/21	P409, Rev. 8 Admin. Chg. 2	Moved many of the prime contract requirements from Section 11.2 to Section 11.0. Throughout document-updated Contact Section, references, hyperlinks.
01/07/22	P409, Rev. 8 Admin. Chg. 3	Updated DOE M 435.1-1 to Chg 3. Updated DOE O 435.1 to Chg 2.
08/22/22	P409, Rev. 8 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 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* Updated hyperlinks.
11/28/22	P409, Rev. 8 Admin. Chg. 5	Section 3.11: Updated to align with P1201-4, *Los Alamos National Laboratory Incident Reporting and Protective Actions*. Updated ALDESHQSS to ALDESHQ throughout document. Section 10.0: Removed history entries prior to 11/01/18.
08/16/23	P409, Rev. 8 Admin. Chg. 6	Section 1.0-5.0: Removed hyperlinks Section 11: Updated references.
08/31/23	P409, Rev. 8 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 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. Corrected typographical errors. 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." 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." Section 5.6.1: First Sentence, changed "waste in storage must be inspected," to "waste in storage should be inspected." Section 5.6.1: Changed "the Laboratory requires waste generators" to "the Laboratory recommends waste generators." Section 6.0: Added Curriculum 4027, *HAZWOPER TSDF Worker* to the TSF Workers or Owners row.

ATTACHMENT 26: MATERIAL SAFETY DATA SHEET FOR E2008 ASPHALT RELEASE

Material Safety Data Sheet

Zep Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-877-I-BUY-ZEP (428-9937)
www.zep.com

Section 1. Chemical Product and Company Identification

Product name E2008 ASPHALT RELEASE (XT-3199)

Product use Asphalt Release Agent

Product code F464

Date of issue 02/13/09 **Supersedes** 06/17/99

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
(877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency
CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Printing date: 02/13/09

Prepared By
Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

CAUTION !

MAY CAUSE EYE IRRITATION.

*Hazard Determination System (HDS): Health, Flammability, Reactivity

0	0	0

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects **Routes of Entry** Eye contact.

Eyes May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin No known acute effects of this product resulting from skin contact. Prolonged or repeated contact may dry skin and cause irritation.

Inhalation No known acute effects of this product resulting from inhalation.

Ingestion No data on acute toxicity of the product when ingested. May irritate digestive tract.

Chronic effects There is no known chronic effect after exposure to this product.

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

OSHA's Hazard Communication Standard (29 CFR 1910.1200) does not require the listing of any ingredient for this product.

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact Rinse with plenty of running water. If irritation persists, get medical attention.

Inhalation Inhalation not likely under normal use conditions.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. If swallowed, seek medical advice immediately and show this container or label.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)

Flash Point Not applicable

Flammable Limits Not applicable

Flammability Non-combustible.

Fire hazard Not applicable.

Fire-Fighting Procedures Not applicable.

Section 6. Accidental Release Measures

Spill Clean up Hazard of slipping on spilled product. Absorb with an inert material and place in an appropriate waste disposal container. Finish cleaning the spill area with running water.

Section 7. Handling and Storage

Handling Avoid contact with eyes. Do not ingest. Wash thoroughly after handling.

Storage Keep container tightly closed. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children. Protect from freezing.

Section 8. Exposure Controls/Personal Protection

Product name **Exposure limits**

No exposure limit value known.

Personal Protective Equipment (PPE)

Eyes Recommended: Safety glasses.

Body No special protective clothing is required. For prolonged or repeated handling, use gloves.

Respiratory No special measures required.

Section 9. Physical and Chemical Properties

Physical State Thin liquid

pH 7.5 - 8.5

Boiling Point 104.44°C (220°F)

Specific Gravity 1

Solubility Miscible in water.

Color Clear. Colorless.

Odor Mild.

Vapor Pressure Not determined.

Vapor Density Not determined.

Evaporation Rate 1 compared with Water

VOC (Consumer) 0 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility None known.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products None identified.

Section 11. Toxicological Information

Acute Toxicity

Not available.

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Not available.

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Non-hazardous waste

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not regulated.	None.	-	-	
IMDG Class	Not available.	Not available.	Not available.	-	

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.
PG* : Packing group

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:
No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations

California Prop 65 No products were found.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.*

ATTACHMENT 27: P101-14, *CHEMICAL MANAGEMENT*

No: P101-14
Revision: 10

Issued: 06/07/21
Effective Date: 06/07/21

Chemical Management

1.0 PURPOSE

The purpose of this document is to:

- Define the chemical management requirements for the Los Alamos National Laboratory (LANL or the Laboratory) Chemical Lifecycle Program.
- Define processes to ensure protection of workers from health hazards associated with hazardous chemicals, and to keep exposures below Occupational Exposure Limits (OELs) as provided in the Prime Contract.
- Provide direction to ensure that work with hazardous chemicals is conducted in a safe and responsible manner that protects workers, the public, and the environment, in accordance with Laboratory Integrated Work Management (IWM) and Environmental Management Systems.
- Provide direction in the development and application of the hierarchy of controls (i.e., elimination, substitution, engineering, administrative, and Personal Protective Equipment [PPE]) that will protect workers and the environment.
- Promote consistency in the selection and application of chemical management and chemical safety controls.
- Ensure compliance with 29 Code of Federal Regulations (CFR) 1910.1200 *Hazard Communication* and 29 CFR 1910.1450 *Occupational Exposure to Hazardous Chemicals in Laboratories*.

2.0 AUTHORITY AND APPLICABILITY

2.1 Authority

- Issuing Authority (IA): Associate Laboratory Director for Environment, Safety, Health, Quality, Safeguards, and Security (ALDESHQSS)
- Responsible Manager (RM): Environmental Protection and Compliance Division Leader (EPC-DL)
- Responsible Office (RO): Environmental Protection and Compliance (EPC-DO)

2.2 Applicability

This document applies to all Laboratory workers. Subcontract workers are required to follow the requirements set forth in their contractual agreement with the Laboratory in accordance with the Exhibit F process.

This document applies to all work areas where chemicals including gases (compressed and cryogenic fluids) are procured, acquired, synthesized, manufactured, machined, handled, received, distributed, used, stored, or disposed. Activities that are subject to the requirements contained in this document are maintenance, construction, facility categorization, Research and Development (R&D), emergency planning, environmental restoration, and Decontamination and Decommissioning (D&D).

This document applies to Laboratory facilities and equipment that involve current or past use of hazardous chemicals. Offsite work by LANL workers, where chemicals are used, should follow the specific guidelines and protocols of the host facility within the context of the guidelines provided herein.

Minimum requirements are adherence to the Federal Regulations cited in this document. Vehicular movement of chemicals subject to Department of Transportation (DOT) regulations is governed by P151-1, *LANL Packaging and Transportation Program Procedure*.

3.0 PROCEDURE DESCRIPTION

This document sets forth practices for managing industrial hygiene, safety, and environmental concerns associated with hazardous chemicals.

Note: Every Laboratory organization that procures, acquires, manufactures, machines, handles, receives, distributes, transports, uses, stores, or disposes of hazardous chemicals is required to follow the safety plan found in Attachment A*, LANL Hazard Communication and Chemical Hygiene Plan*. Requirements identified in Attachment A are specific to:

- 29 CFR 1910.1200(g), *Labor, Occupational Safety and Health Standards, Hazard Communication* (e),
- 29 CFR 1910.1450, *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories* (e), and

The *LANL Hazard Communication and Chemical Hygiene Plan* found in Attachment A, as well as any associated Integrated Work Documents (IWDs) and organization-specific procedures that address hazardous chemicals, must be communicated to the workers in the organization. The plan is applicable to all activities whether chemicals are used in industrial applications (Hazard Communication [HAZCOM]) or small-scale laboratory R&D (Chemical Hygiene Plan [CHP]). Where it is mutually beneficial, the plan is applicable to all activities. Where procedures are specific to HAZCOM or CHP, the delineation is made in the text of the plan.

Note: Engineered nanomaterials are addressed in P101-29, *Working with Nanotechnology Materials and Processes*. Biological materials are addressed in P101-15, *Biological Safety.* Explosives are addressed in P101-8, *Explosives Safety*. Radiological materials are addressed in P121, *Radiation Protection*. Chemical disposition is addressed in P409, *LANL Waste Management.* Controlled substances are addressed in OSH-ISH-FSD-005, *Procurement, Management, and Disposal of Controlled Substances.*

3.1 Chemical Management and Chemical Safety Program Elements

The LANL chemical management program addresses elements from both 29 CFR 1910.1200(g), *Labor, Occupational Safety and Health Standards, Hazard Communication,* and 29 CFR 1910.1450, *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories.* Overall chemical management program elements are described in Table 1 *Chemical Management Program Elements*. Specific chemical safety program elements are described in Table 2 *Chemical Safety Program Elements*.

Table 1. Chemical Management Program Elements		
Chemical Management Program Element	**P101-14 Section**	**P101-14, Attachment A Section**
A list of the hazardous chemicals known to be present, i.e., an inventory	3.3	1.3
Hazard identification and analysis	Attachment A	All
Acquisition	3.2	NA
Chemical inventory management and tracking, including management of extremely hazardous chemicals, and Material Safety Data Sheets/Safety Data Sheets (MSDS/SDSs)	3.3	1.4 (MSDS/SDS only)
Chemical transportation	3.8	NA
Chemical storage	3.7	NA
Hazard control	3.6	1.6
Pollution prevention and waste minimization	3.4	NA
Chemical emergency management	3.9	NA
Chemical disposition	3.7	NA
Training	6.0	1.15

Table 2. Chemical Safety Program Elements		
Chemical Safety Program Element	**P101-14 Section**	**P101-14, Attachment A Section**
A list of the hazardous chemicals known to be present, i.e., an inventory	3.3	1.3
Access to MSDS/SDSs for procured or acquired hazardous chemicals	3.3	1.4
Container labeling and other forms of warning	NA	1.5
Employee information and training	6.0	1.15
Methods used to inform employees of hazards of non-routine tasks or chemicals in unlabeled piping, precautionary measures for protection of employees during normal operating conditions and foreseeable emergencies, and the circumstances under which a particular laboratory operation, procedure or activity will require prior approval from the employer or the employer's designee before implementation	NA	1.6
Standard operating procedures relevant to safety and health considerations to be followed when laboratory work involves the use of hazardous chemicals	NA	1.6
Criteria that the employer will use to determine and implement control measures to reduce employee exposure to hazardous chemicals including engineering controls, the use of Personal Protective Equipment (PPE) and hygiene practices; particular	3.6	1.6

Table 2. Chemical Safety Program Elements		
Chemical Safety Program Element	**P101-14 Section**	**P101-14, Attachment A Section**
attention will be given to the selection of control measures for chemicals that are known to be extremely hazardous		
A requirement that fume hoods and other protective equipment are functioning properly and specific measures will be taken to ensure proper and adequate performance of such equipment	NA	1.8
Designation of personnel responsible for implementation of the Chemical Hygiene Plan (CHP) including the assignment of a Chemical Hygiene Officer (CHO), and, if appropriate, establishment of a Chemical Hygiene Committee	4.2	1.9
Provisions for additional employee protection for work with particularly hazardous substances, i.e., carcinogens, reproductive toxins, and substances that have a high degree of acute toxicity, including as appropriate: establishment of a designated area, use of containment devices such as fume hoods or glove boxes, procedures for safe removal of contaminated waste; and decontamination procedures	4.2	1.11
Compliance with 29 Code of Federal Regulations (CFR) 1910.119, *Labor, Occupational Safety and Health Standards, Process Safety Management of Highly Hazardous Chemicals (Occupational Safety and Health Administration [OSHA] PSM Rule),* Appendix A	4.7	NA
Hazardous chemical spill response	3.9	NA

3.2 Chemical Acquisition

Acquisition includes procurement, onsite synthesis, blending of chemicals, individuals or organizations bringing chemicals onsite, and other mechanisms. Chemicals are purchased by trained and authorized chemical workers.

Before a chemical owner makes a decision to purchase a chemical through LANL procurement, the chemical owner will determine whether:

- The proposed quantity of the chemical is within the evaluated safety basis limits, fire protection limits, and fire hazard analysts limits for the facility.

  Note: The Facilty Operations Director (FOD) is responsible for providing this information.

- Approval is required for purchase of the chemical as stated in Document 3400.00.0410 (Rev. 4.1, 12/21/18) *Goods or Services Requiring Special Review/Approval*.
- There is a less hazardous or non-hazardous chemical available.
- There is a suitable surplus chemical available from another chemical owner.
- There is a current need for the chemical.
- There are unique hazards of the chemical that would require special assessment and controls.
- The quantity is limited to a specific project or maintenance need.

- There are stability or shelf life issues that need to be tracked.
- Storage facilities are suitable.
- There is an appropriate safe and environmentally acceptable means for the final disposition of environmentally sensitive chemicals, products, and byproducts.
- The correct SDS is included in the LANL SDS Electronic Binder and that the name on that SDS is used as the ChemDB entry Chemical Name.

  Note: Contact OCC Safety and Health Division-Industrial Safety and Hygiene Group at safetydatasheets@lanl.gov to add SDS/MSDSs to the LANL MSDS/SDS Electronic Binder.

All gas will be acquired from the Gas Facility for those maintained as stock items, or as a LANL iProcurement Non Catalog request choosing Compressed Gas as the category. Gases may not be purchased on a purchase card (Pcard). All chemical/gases transported as a Hazard Class 2 material must be delivered to the Gas Facility at TA-3, Building 170. The SM-30 warehouse is not allowed to accept the delivery of gas.

Note: Non-gas chemical requests for purchase by Pcard must be submitted for approval using the ChemDB Footprints Request. Include the TA, building, and room where the chemical will be stored, the Z# and name of the chemical requestor, the chemical or product name, total amounts requested, the manufacturer and catalog number, and an SDS/MSDS for the chemical or product.

Note: For Safety Basis Threshold Quantity information, see the Chemical Categorization web page, and Chemical Threshold Quantities for Safety Basis Categorization.

Note: For Quality Assurance Procurement requirements, see P840-1 Quality Assurance for Procurements, Section 3.6.13 Chemicals.

3.3 Chemical Inventory Management and Tracking

- LANL is required to maintain a list of the hazardous chemicals known to be present using an identity that is referenced on the appropriate MSDS/SDS. The listing of hazardous chemicals is maintained in the LANL institutional chemical inventory database application, ChemDB. This inventory is overseen by ALDESHQSS, EPC Division. For help with ChemDB, please submit a ChemDB Footprints Request.
- Primary hazardous chemical containers are barcoded, entered, and tracked in ChemDB in accordance with guidance documents found under the “Support and Resources” tab in ChemDB. Primary containers of engineered nanomaterials and biological toxins are entered and tracked in ChemDB.
- ChemDB will be updated when a primary hazardous chemical container is acquired; is transferred to a new owner and/or a new location; or is disposed.
- Chemical owners who are retiring, departing the Laboratory for another position, transferring to another position within the Laboratory, or are transferring chemicals for any other reason, must transfer chemical ownership for primary containers in ChemDB to the new owner; and must provide information on the status of the chemicals including information such as safe storage and handling protocols, and testing and evaluation requirements for any time-sensitive primary and secondary chemical containers.
- Physical inventories of primary hazardous chemical containers will be performed annually to verify the accuracy of ChemDB. Upon completion of the inventory, a reconciliation of the physical inventory results and update of ChemDB is required. Annual inventories will be performed in accordance with FSD-101-14-001, *Annual Chemical Inventory and Reconciliation*.

- Workers must have access to the MSDS/SDS for all procured hazardous chemicals. See 29 CFR 1910.1200(g), *Labor, Occupational Safety and Health Standards, Hazard Communication* (g) (6) (iii) and (8) and 29 CFR 1910.1450, *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories* (f) (3) (v). MSDS/SDSs must be maintained as stated in Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan,* Section 1.4.

  Note: Managers of chemical owners may assign a proxy to assist their chemical owners in carrying out chemical management responsibilities such as accessing ChemDB and performing annual inventories. Chemical owner proxies are subject to the same training requirements under this procedure as chemical owners.

3.4 Chemical Elimination, Substitution, Pollution Prevention, and Waste Minimization

Elimination of a hazardous chemical or substitution of a hazardous chemical with a less hazardous chemical is the preferred method to control hazards in accordance with the IWM process. Process change to a system for pollution prevention or waste minimization is another recognized control for chemical usage. Whenever possible, chemical workers will consider eliminating hazardous chemical usage or substituting less hazardous chemicals for highly hazardous chemicals, according to 29 CFR 1910.1450, *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories*, and 10 CFR 1021, *Energy, National Environmental Policy Act Implementing Procedures*. In addition, upstream chemical minimization processes and waste reduction techniques to minimize the quantity of chemical used in an activity will be considered.

Avoid introducing excess chemicals into radiologically controlled areas, to minimize the potential to create a mixed waste. The need for legacy chemicals should be evaluated on at least an annual basis.

Note: The Environmental Protection Division-Environmental Stewardship Group may be contacted for assistance in chemical substitution, pollution prevention, and waste minimization. See the Laboratory Chemical Safety Webpage for assistance with surplus chemicals. Chemical Subject Matter Experts may also be contacted for assistance in chemical substitution. Transportation of surplus chemicals must comply with requirements in Section 3.8.

3.5 Management of Extremely Hazardous Substances

An extremely hazardous substance present at the Laboratory in an amount greater than or equal to its threshold planning quantity triggers emergency planning requirements as required by 40 CFR 355, *Protection of Environment, Emergency Planning and Notification*. Contact Emergency Operations Division-Emergency Response Group at 667-6211 for assistance in emergency planning and release reporting requirements.

3.6 Hazard Control

Identification, evaluation, and control of hazards associated with chemical use are managed through IWM (see P300, *Integrated Work Management* and P300-1 *Integrated Work Management for R&D*), and worker exposure assessments (see P101-32, *Worker Exposure Assessments*). Communication of exposure assessment activities is addressed in DESHS-CPCS-TP-004 *Communication of Industrial Hygiene Exposure Assessment and Sampling for Site Wide Craft Activities*.

3.7 Hazardous Chemical Storage

Storage includes all physical phases and all types of containers including, but not limited to, tanks, piping, cylinders, and containers of solid, liquid, or gaseous chemicals. Storage includes all

chemicals or chemical products, including used and unused chemicals, sealed, opened, or partially filled containers, working solutions, day-use containers, and chemical "residues" left within tanks, piping, or other containers. Storage in this document excludes storage of solid waste or hazardous waste.

Chemical storage will be limited to the quantity necessary to perform the work, and within safety basis and fire protection limits. Liquid hazardous chemicals must be stored so that a spill will not exceed 20 L (5 gallons), as required by the National Fire Protection Association (NFPA 45, *Standard on Fire Protection for Laboratories Using Chemicals* and NFPA 400, *Hazardous Materials Code)*. Flammable and combustible liquids will be limited to less than the maximum quantities allowed in Tables 10.1.1(a), 10.1.1(b) and 10.1.2 of NFPA 45. Both documents are available to Laboratory workers through the Research Library.

Storage of gas must follow the requirements of NFPA 55, *Compressed Gases and Cryogenic Fluids Code*, and the Compressed Gas Association and be grouped together by type (e.g., flammable, oxidizer, corrosive, toxic and highly toxic gases); segregated from potential hazards; and separated by 20 feet, or a half hour fire barrier in accordance with P101-34, *Pressure Safety*.

Containers of materials that might become hazardous (i.e., time-sensitive chemicals) during prolonged storage will be dated when first opened, and managed in accordance with Chemical Management Tool: *Time-Sensitive Chemicals Tool*.

To protect the environment and the safety and health of all people, hazardous waste will be disposed of properly. See P409, *LANL Waste Management,* for requirements.

Note: The NFPA standards 30, 45, and 55, and the International Building Code define Maximum Allowable Quantities (MAQs) of different categories of chemicals that may be within open and closed systems in facilities. These criteria apply to LANL facilities (via the Prime Contract). The Fire Protection Division can assist in defining MAQs for specific facilities where those limits are not clearly defined.

3.8 Hazardous Chemical Transportation

Movement of hazardous chemicals subject to DOT regulations for public roads and site transportation on nonpublic roads will be done in accordance with P151-1, *LANL Packaging and Transportation Program Procedure*. Gas must be delivered in a manner compliant with DOT Regulations, 49 CFR 100-199 *Transportation—Pipeline and Hazardous Materials Safety Administration, Department of Transportation*.

3.8.1 Off-Site Shipping

Any chemical that meets the definition of a hazardous material, or is suspected to be hazardous material according to 49 CFR 171.8, *Transportation, General Information, Regulations, and Definitions, Definitions and Abbreviations*, and is classified as a hazardous material in accordance with 49 CFR 173, *Transportation, Shippers—General Requirements for Shipments and Packagings, Parts 115–141 and Parts 403–436.* These chemicals will be packaged, marked, labeled, and shipped with prepared shipping papers in accordance with 49 CFR 100-199, *Transportation, Pipeline and Hazardous Materials Safety Administration, Department of Transportation*, and applicable Department of Energy (DOE) Orders by DOT trained personnel. Contact Logistics, Packaging and Transportation (LOG-PT) for assistance.

Any chemical being shipped by air that meets the definition of dangerous goods according to the International Civil Aviation Organization will be packaged, marked, labeled, and shipped, with an

accompanying properly prepared dangerous goods declaration, in accordance with the International Civil Aviation Organization technical instructions. Contact Logistics, Packaging and Transportation (LOG-PT) for assistance.

Wastes containing chemicals that are also New Mexico special wastes or hazardous wastes have additional shipping, placarding, manifesting, and training requirements. Contact your Waste Management Coordinator (WMC).

3.8.2 On-Site Transfers of Chemicals

The on-site transfer of hazardous chemicals will follow P151-1, *LANL Packaging and Transportation Program Procedure*. Logistics, Packaging and Transportation (LOG-PT) has jurisdiction over the requirements for packaging, marking, and documenting on-site transfers.

On-site shipping of analytical-scale samples of hazardous chemicals (DOT small quantities) is permissible, as long as it meets Laboratory and DOT requirements for such samples. An example procedure that meets the Laboratory and DOT requirements for such on-site shipping, including training requirements, is SOP-C-DO-003, *On-Site Shipping of Analytical-Scale Samples of Hazardous or Radioactive Materials (DOT Small Quantities).*

All hazardous chemical transport will be done in a government vehicle. Hand carrying of hazardous chemical containers will be done using secondary containment and laboratory carts for heavy or multiple containers. Exception: Gas must be transferred by Gas Facility personnel in accordance with 49 CFR 100-199, *Transportation, Pipeline and Hazardous Materials Safety Administration, Department of Transportation*.

3.8.3 Hazardous Chemical Spills

Workers must be authorized, provided the necessary training, understand required spill response procedures before working with a hazardous chemical, and verify that containment and cleanup of a spill is permitted by the IWD or equivalent Work Control document associated with the activity in progress.

- When safe to do so, authorized chemical workers will determine the extent of the area affected, and demarcate it with barricade tape or use another reliable means to restrict entry into the area. If it is not safe to do so, workers should evacuate the area.
- In the event of a large hazardous chemical spill (i.e., a spill that cannot be safely contained by an authorized chemical worker), make notifications and take necessary protective actions in accordance with P1201-4, *Incident Reporting and Protective Actions*.
- Properly briefed, authorized chemical workers may cleanup incidental spills, using an appropriate spill kit or other means, following spill control, mitigation, cleanup, and reporting procedures listed in the IWD or equivalent Work Control document, associated with the activity in progress at the time of the spill. Refer to the LANL Guidance for Reporting and Managing Incidental Spills.
- Workers and their supervisors are required to go to Occupational Medicine for a work-related injury or illness, including exposure to hazardous chemical spills, unless transported directly to Los Alamos Medical Center (LAMC). Prior to return to work, workers must go to Occupational Medicine for follow up.
- Workers and their supervisors will manage all debris and waste resulting from the cleanup of a spill as though it contains the hazardous chemical, according to WMC instruction.

3.9 Chemical Safety Tools

Chemical safety tools, found on the Chemical Safety webpage, contain safety and health considerations to be followed when using hazardous chemicals. These tools will be supplemented and updated as needed.

4.0 RESPONSIBILITIES

4.1 Associate Laboratory Director for Environment, Safety, Health, Quality, Safeguards, and Security (ALDESHQSS)

- Overall accountability for the proper management of the Chemical Management Program.
- Chemical Management Program Manager provides overall coordination of LANL's Chemical Management Program.
- Oversees the ChemDB application.
- Maintains a site-wide MSDS/SDS program (OCC Safety and Health Division-Industrial Safety and Hygiene Group).
- Maintains a site-wide hazard assessment and exposure monitoring database, the Comprehensive Tracking System (CTS) (OCC Safety and Health Division-Industrial Safety and Hygiene Group).
- Performs exposure assessments for chemical hazards (Deployed Environment, Safety, Health Division). See P101-32 *Worker Exposure Assessments*.
- Consults with the Laboratory community on the development and implementation of chemical hygiene and safety policies and practices (OCC Safety and Health Division-Industrial Safety and Hygiene Group).
- Annually reviews and updates as necessary the Hazard Communication and Chemical Hygiene Plan (OCC Safety and Health Division-Industrial Safety and Hygiene Group).
- Provides medical consultation and examinations for individuals who are exposed or potentially exposed to hazardous materials, including OSHA-regulated carcinogens (Occupational Medicine). See Laboratory Industrial Hygiene and Safety Manual Chapter 33 Carcinogens.
- Provides consultation with respect to reproductive toxicants (Occupational Medicine, Deployed Environment, Safety, and Health Division-Facilities/Services Groups).
- Provides assistance in researching less hazardous chemical substitutes (Environmental Protection Division-Environmental Stewardship Group).
- Provides the LANL CHO (OCC Safety and Health Division-Industrial Safety and Hygiene Group)/Chemical Safety SME.

4.2 Emergency Operations Division

- Receives notification at Emergency Operations Division Emergency Operations Supports Center of hazardous materials incidents, deploys Emergency Operations Division assets to respond, and coordinates dispatch of offsite agency responders as needed.
- Responds (Emergency Operations Division) to hazardous materials incidents and serve as Incident Commander or integrate into a Unified Command System with other agencies to direct tactical actions at the incident scene and ensure the safety of affected personnel, mitigation of the incident, and protection of the environment and property.

- Responds (Emergency Operations Division Emergency Response Group Hazardous Materials Team) to hazardous materials incidents onsite and provides specialized response expertise and equipment to mitigate potential or actual releases of hazardous materials and render safe hazardous materials.
- Provides (Emergency Operations Division Emergency Response Group) services to LANL and surrounding communities in the areas of hazardous materials training and non-emergency hazardous materials consultations. Provides specialized expertise and equipment in response to hazardous materials emergencies at LANL and within the surrounding communities.

4.3 Division Leaders

- Ensure that Division activities involving chemicals are conducted within the safety envelope and the scope of work identified in Division and Facility documents.
- Ensure that adequate resources are provided to Responsible Line Managers (RLMs) to identify, evaluate, and control chemical hazards associated with existing and proposed work performed within their Divisions so that chemical management may be integrated into day-to-day operations.
- Ensure that a chemical safety plan is written for their Division, or reference Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan,* as their Hazard Communication and Chemical Hygiene Plan.
- Ensure that violations of codes and safety standards identified by reviews or inspections are corrected or that compensatory measures or action plans are developed.

In CHP areas only, assign a Division Chemical Hygiene Officer (CHO) Group CHOs may be assigned as necessary. Ensure that CHOs have the experience and training as noted in Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan,* Section 1.9.

4.4 Program Directors, Program Managers, and Project Leaders

Negotiate with RLMs to provide adequate resources for the requirements in this document.

4.5 Responsible Line Managers (RLMs) in Coordination with the Person in Charge (PIC)

- Ensure that primary hazardous chemical containers in their organization are barcoded, and entered and tracked in ChemDB.
- Ensure that workers keep ChemDB current and accurate for their chemicals.
- Ensure that a physical chemical inventory of primary hazardous chemical containers is performed in their organization annually and reconciled in ChemDB.
- Ensure that for any new activity (i.e., an activity that requires a new IWD) a hazard review is completed for hazards that may be encountered or generated during the course of the work. The evaluation must include the hazards associated with the properties and the reactivity of the materials used, any intermediate and end products that may be formed, hazards associated with the operation of the equipment at the operating conditions, and hazards associated with the proposed reactions.
- Ensure that all required training is completed by workers before the work is authorized.
- Integrate chemical life cycle management (purchase through disposition) into resource planning, funding, prioritizing, planning, scheduling, and implementation of work conducted under their supervision.

- Provide job-specific briefings and/or information on the chemical hazards and safety precautions related to each authorized chemical worker's assigned work, before beginning work.

  Note: Never assume that a worker has knowledge of the chemical, its hazards, and the controls. Job-specific information must include:

  - chemical inventory, relevant to the employee's assigned work, specific chemicals used, and the location of activities where hazardous chemicals are present;
  - specific methods and observations, if applicable, that are used to detect the presence or release of a hazardous chemical;
  - the location of the associated MSDS/SDS(s), and how to obtain an MSDS/SDS. For hazardous chemicals used, the following information from each MSDS/SDS must be discussed within a job-specific briefing, or as part of a pre-job briefing:
    - hazards identification;
    - fire protection/incompatibilities;
    - accidental release measures, handling and storage;
    - exposure controls/personal protection;
    - physical and chemical properties; and
    - chemical stability and reactivity information, particularly instability conditions and incompatible chemicals.
  - the applicable details of the written Hazard Communication and Chemical Hygiene Plan (see Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*) and any facility-specific HAZCOM Plan or written CHP;
  - secondary container labeling requirements (see Attachment A, Section 1.5.);
  - specific building signs and postings for hazardous chemicals;
  - Building Emergency Plans;
  - locations of eyewashes and safety showers;
  - spill response requirements, including mitigation, cleanup, and reporting requirements, and
  - specific chemical storage requirements.
- Monitor through Management Observation and Verification (MOV) or other means that equipment and chemical containers are labeled with the name of the contents and that work areas are posted with signs or placards that depict the chemical hazards in the area.
- Monitor through MOV or other means that MSDS/SDSs are accessible to all workers who may have potential exposure to chemicals.
- When authorizing IWDs, ensure that elimination of hazardous chemicals, or substitution of a less hazardous material when practical, has been addressed by the preparer.
- When authorizing IWDs, ensure identification of operations where the following are used: known and suspect human carcinogens, reproductive toxicants, and substances with a high degree of acute toxicity.
- Ensure that deployed personnel are notified to conduct worker exposure assessments, and that proper controls are established.
- Ensure that workers adhere to the requirements in this document.

- Authorize workers to perform chemical work and Designated Procurement Representatives to purchase chemicals.
- Work with Facility Operations personnel to review chemical incidents and near misses involving chemicals, and ensure that corrective actions identified from chemical accident investigations and inspections are implemented.
- Ensure that all chemical hazards are removed when vacating space. When an area is being vacated, all chemicals will be moved, transferred to new ownership, or disposed of properly. The work area will be cleaned and restored to its original condition or a condition acceptable to the next occupant before transfer of ownership is completed.
- Ensure that resource planning, funding, prioritizing, scheduling, and implementation of chemical work conducted under their supervision addresses the necessary environmental, safety, and health evaluation and controls.
- Ensure that visitors are informed about the Laboratory's chemical safety policies and procedures, and ensure that they are aware of the existence and availability of chemical hazard information and resources.
- Notify Deployed Environment, Safety, and Health Division-Facilities/Services Groups deployed staff of new or modified work activities that require exposure assessments.
- Negotiate with Program Directors, Program Managers, and Project Leaders to provide adequate resources to meet the requirements in this document.
- Ensure that hazards from chemicals and/or chemical reactions are evaluated before laboratory activities or chemical reactions are begun. See Attachment A, Section 1.11.3.

4.6 Facility Operations Directors (FODs)

- Ensure that new work involving hazardous chemicals is reviewed by appropriate Subject Matter Experts (SMEs).
- Communicate Safety Basis levels to RLMs and maximum chemical quantities allowed to tenants.
- Maintain a proactive preventive maintenance program to ensure that laboratory engineering controls and emergency equipment (e.g., ventilation systems, detectors, shutoff devices, and emergency eyewash and safety showers) are in proper operating condition.
- Inform on-site construction/equipment subcontractors of the presence and identity of hazardous chemicals in their immediate work areas.
- Notify building occupants of testing, demolition, construction, and renovation activities and their related chemical hazards before beginning work.
- Work with the Subcontract Technical Representative (STR) to ensure that subcontractors comply with Exhibit F and other subcontractor requirements.
- Working with Acquisition Services Management-Project Management and the STR, ensure that subcontractors provide an inventory and the MSDS/SDS for hazardous chemicals brought on-site to the Environment, Safety, and Health (ESH) manager or designee, or Emergency Operations Division personnel.
- Ensure that chemical incidents are reported and investigated and that corrective action is taken to prevent recurrence.
- Provide facility-specific information so tenants are aware of bounding chemical thresholds.
- Ensure that facilities maintain quantities (by weight) of highly hazardous chemicals below threshold quantities (see 29 CFR 1910.119, Appendix A).

4.7 Deployed Environment, Safety, and Health Division-Facilities/Services Groups Deployed Personnel

- Assist line managers in performing and documenting hazard assessments and risks for existing and planned operations, including laboratory moves and decommissioning.
- Provide guidance for establishing administrative, work practice, PPE, and engineering controls. Assist in determining labeling requirements for equipment, piping, containers, and facilities.
- Perform and document worker exposure assessments and exposure monitoring to determine employee exposures to hazardous materials and to evaluate the adequacy of controls in accordance with P101-32, *Worker Exposure Assessments.*

4.8 Authorized Chemical Owners

- Barcode all primary hazardous chemical containers and enter the requirement information into ChemDB. Conduct the annual inventory in accordance with FSD-101-14-001 *Annual Chemical Inventory and Reconciliation*. Note: this may be done by a chemical owner proxy.
- Update ChemDB when a primary hazardous chemical containers is transferred to a new owner and/or a new location; or is disposed.
- Complete the training requirements for an authorized chemical worker. Individuals with appointments of less than one year, visitors, undergraduate and high school students will not be chemical owners. The immediate supervisor for visitors, undergraduates and high school students will be the chemical owner.
- Post work areas with signs or placards that depict the current chemical hazards in the area. Labels, signs, and placards will be consistent with the group's written plan (HAZCOM or CHP).
- Label chemical containers with required information. See Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan,* Section 1.5.
- Working with the WMC, establish whether the chemical or its end product will require disposal as a hazardous waste, New Mexico Special Waste, or has other disposal requirements.
- To the greatest extent possible, purchase chemicals on an as-needed basis and limit the purchase quantity to an amount that will be used in six months or less, to minimize inventory and chemicals in storage. If possible, purchase reagents in polyethylene bottles or plastic-coated glass bottles to minimize breakage, corrosion, and rust. Verify that the amount purchased does not exceed safety basis or flammable or combustible liquid storage limits.
- Be aware of chemical incompatibilities and store chemicals accordingly.

4.9 Authorized Chemical Workers

- Work safely by observing safety standards, guidelines, and procedures.
- Implement all controls required by work authorization documentation.
- Stop work that may pose an imminent danger to workers.
- Work with Deployed Environment, Safety, and Health Division-Facilities/Services Groups deployed personnel in workplace monitoring and sample collection.
- Report unsafe conditions, chemical incidents, or injuries to line managers immediately.

- Call 911 immediately if a chemical-related illness or injury occurs. See P102-2 *Occupational Injury and Illness Reporting and Investigation*. Make notifications and take any necessary protective actions in accordance with P1201-4, *Incident Reporting and Protective Actions*.
- Be familiar with and follow chemical and emergency procedures as directed in work authorization documentation.
- Label chemical containers with required information. See Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan,* Section 1.5.
- Complete required training and job-specific briefings on the chemical hazards and safety precautions related to assigned work, before beginning work. (See Section 6.0.)

5.0 IMPLEMENTATION

The requirements in this document are effective on the effective date.

6.0 TRAINING

Both 29 CFR 1910.1200 (h)(2) and (3), and 29 CFR 1910.1450, (f)(3) and (4) require that authorized chemical workers receive information and training. Course #25418, *Chemical Hazard Communication Introduction Live* and its substitute, Course #25997, *Chemical Hazard Communication Introduction Self-Study*, provide the following required information and training elements including:

- methods and observations that may be used to detect the presence or release of a hazardous chemical in the work area;
- the physical, health, simple asphyxiation, combustible dust, and pyrophoric gas hazards as well as hazards not otherwise classified;
- the measures employees may take to protect themselves from these hazards including specific procedures and emergency procedures that the employer has implemented to protect employees from exposure to hazardous chemicals;
- The training regarding pictograms, labels, and safety data sheets as required to be consistent with 29 CFR 1910.1200 *Hazard Communication*;
- the details of the LANL Hazard Communication (HAZCOM) Program; and
- the location and availability of LANL's Chemical Hygiene Plan.

The remaining required elements are provided in job-specific briefings (see Attachment A, Section 1.6, *Methods Used to Inform Workers*).

Note: If an authorized chemical worker will be generating waste, see P409, *LANL Waste Management*.

7.0 EXCEPTION OR VARIANCE

To obtain an exception or variance to this document, see the following instructions:

- Managers may request an exception or variance from the IA through the RM;
- At the IA's request, the RM will provide a recommendation or supporting information; and
- The IA or designee will provide the requester with a written response and copy the RM.

The requesting organization must maintain the official copy of record of the approved correspondence granting the exception or variance.

8.0 DOCUMENTS AND RECORDS

8.1 Office of Record

The Policy Management Office is the Laboratory Office of Record for this Institutional Document and maintains the administrative record.

8.2 Required Records

Records generated from the requirements in this document must be managed in accordance with P1020-1, *Laboratory Records Management*. These records include ChemDB (ALDESHQSS-EPC) and MSDS/SDSs (OCC Safety and Health Division-Industrial Safety and Hygiene Group), and training records (see P781-1, *Conduct of Training* for responsible organizations).

9.0 DEFINITIONS AND ACRONYMS

9.1 Definitions

See LANL *Definition of Terms*.

Accident—Any event, including, but not limited to, equipment failure, rupture of containers, or failure of engineering controls, that potentially creates a hazard through uncontrolled release of a hazardous chemical.

Authorized Chemical Worker—A worker (Triad National Security, LLC, contractor, subcontractor, student) whose RLM and PIC have determined that he/she has the training, skill, knowledge, and abilities to safely perform the chemical work to which he/she is assigned.

Carcinogen—Those chemicals that have been identified as substances that may lead to cancer by the agencies listed below and that have a concentration equal to or greater than 0.1% (1,000 parts per million).

- American Conference of Governmental Industrial Hygienists (ACGIH), either Category A1 (confirmed human carcinogen), Category A2 (suspected human carcinogen), or Category A3 (confirmed animal carcinogen with unknown relevance to humans).
- Compounds that the International Agency for Research on Cancer (IARC) has confirmed or identified as possible human carcinogens and those chemicals that the National Toxicology Program (NTP) has identified as known to be carcinogenic or chemicals that may reasonably be expected to be carcinogenic.

Ceiling Limit—The concentration that must not be exceeded during any part of the working exposure.

Chemical—Any element, compound, or mixture of elements and compounds. A substance that (1) possesses potentially hazardous properties (including, but not limited to, flammability, toxicity, corrosivity, reactivity, and instability); or (2) is included on any Federal, state, or local agency regulatory list; or (3) is associated with a MSDS/SDS. For the purposes of this document, this definition also applies to chemical products.

Chemical Hygiene Officer (CHO)—(CHP areas only). An employee, appointed by the Division Leader, who is qualified by training or experience to provide technical guidance in the development and implementation of the provisions of the LANL Hazard Communication and Chemical Hygiene Plan (see Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*).

Chemical Hygiene Plan (CHP)—A written program that consists of the Laboratory's CHP (see Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*) and activity-specific documentation, such as IWDs, which set forth guidance to protect workers from the dangers presented by hazardous chemicals used in a particular laboratory work area.

Chemical Inventory—A written or electronic record of chemicals.

Chemical Owner—An authorized chemical worker to whom a container that contains a chemical on the chemical inventory is assigned.

Chemical Release—Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of a chemical into the environment.

Chemical Worker—A worker who works with hazardous chemicals.

Container—A container means any bag, barrel, bottle, box, can, cylinder, drum, reaction vessel, storage tank, or the like that contains a hazardous chemical. Note: Pipes and piping systems, engines, fuel tanks, or other operating systems in a vehicle, are not considered to be containers.

Corrosive—A chemical that causes visible destruction of, or irreversible alterations in, living tissue by chemical action at the site of contact. A substance or a mixture that by chemical action will materially damage, or even destroy, metals is termed "corrosive to metal." See 29 CFR 1910.1200(g), *Labor, Occupational Safety and Health Standards, Hazard Communication,* Appendix A.

Designated Area—An area that will be used for work with select carcinogens, reproductive toxins or substances which have a high degree of acute toxicity.

Emergency Response—A response made by workers from outside the immediate release area or by other designated emergency responders (i.e., Emergency Operations Division-Emergency Response Group, the Los Alamos County Fire Department and the Hazardous Materials Response Group) to an occurrence that results, or is likely to result, in an uncontrolled release of a hazardous substance.

Extremely Hazardous Substance—Any of 366 (+ or -) chemicals or hazardous substances identified by EPA based on hazard or toxicity and listed under EPCRA. The list is periodically revised. See 40 CFR Part 355 Appendix A.

Explosive—A chemical that causes a sudden, almost instantaneous release of pressure, gas, and heat when subjected to sudden shock, pressure, or high temperature.

Flammable Liquid Storage Cabinet—A cabinet for the storage of flammable and combustible liquids constructed in accordance with Section 9.5 of NFPA 30, *Flammable and Combustible Liquids Code*.

Hazard Communication (HAZCOM) Plan—A written program developed and implemented by the Laboratory or subcontractor, which consists of requirements listed in Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*, and activity-specific documentation such as IWDs, or operating procedures that set forth requirements to protect workers from the dangers presented by hazardous chemicals used in a specific construction or production work area.

Hazardous Chemical—Any chemical, including engineered nanomaterials and biological toxins, that presents a physical hazard or a health hazard (health hazard defined below). If a hazardous

chemical comprises 1% (0.1% for carcinogens) or greater of a compound or mixture, the compound or mixture will be treated as a hazardous chemical. See 29 CFR 1910.1200(g), *Labor, Occupational Safety and Health Standards, Hazard Communication* (g) (2) (i) (c) (*1*).

Hazardous Waste—A solid waste that is not excluded from regulation as a hazardous waste and is a listed hazardous waste or exhibits any of the hazardous characteristics: ignitibility, corrosivity, reactivity, or toxicity.

Health Hazard—A chemical that is classified as posing one of the following hazardous effects: acute toxicity (any route of exposure); skin corrosion or irritation; serious eye damage or eye irritation; respiratory or skin sensitization; germ cell mutagenicity; carcinogenicity; reproductive toxicity; specific target organ toxicity (single or repeated exposure); or aspiration hazard. The criteria for determining whether a chemical is classified as a health hazard are detailed in 29 CFR 1910.1200(g), Appendix A, *Health Hazard Criteria* having an NFPA rating of 2, 3, or 4 under fire conditions.

High Acute Toxicity—Substances that may be fatal or cause clinical damage to target organs as a result of a single exposure or exposures of short duration. High-acute-toxicity chemicals meet the following criteria: a Permissible Exposure Limit (PEL) or Threshold Limit Value (TLV) of less than 0.1 ppm Time-Weighted Average (TWA) or ceiling limit of less than 1.0 ppm.

High Chronic Toxicity—Refers to substances that produce adverse effects in humans who suffer repeated exposures to those substances over a relatively prolonged period.

Immediate Use—The hazardous chemical will be under the control of and used only by the person who transfers it from a labeled container and only within the work shift in which it is transferred.

Irritant—A chemical, which is not corrosive, but which causes a reversible inflammatory effect on living tissue by chemical action at the site of contact.

Laboratory Scale—Work with substances in which the containers used for reactions, transfers, and other handling of substances are designed to be easily and safety manipulated by one person.

Laboratory Produced Material—A chemical or chemical mixture that is manufactured or synthesized by an operating group at the Laboratory.

Legacy Chemical—A stable, non-time-sensitive stock chemical or chemical mixture being held for evaluation for future use. Note: Per EPA [40 CFR 261.2(a) (2) and 261.33], unused commercial chemical products do not become solid wastes (i.e., they remain commercial chemical products) until a determination is made that the material will be discarded. Commercial chemical products, even those whose shelf life has been exceeded, that ultimately will be used for their intended purpose or that will be reclaimed are not subject to the Resource Conservation and Recovery Act (RCRA). In 2006 [71 FR 29719; May 23, 2006], EPA noted the following for laboratory chemicals "when accumulated for long periods of time, for example, such unused reagents may be considered solid or hazardous wastes if it can be determined that they are no longer usable for their intended purpose."

Material Safety Data Sheet/Safety Data Sheet (MSDS/SDS)—Written, printed, or electronically transmitted information on the hazards and properties of a particular material, including instructions for its safe use.

Mutagen—A chemical that induces DNA damage and genetic alterations that range from changes in one or a few DNA base pairs to gross changes in chromosome structure.

Occupational Exposure Limit (OEL)—The upper limit on the acceptable concentration of a hazardous substance in workplace air for a particular material or class of materials. LANL OELs include OSHA PELs (8-hour time weighted average), and Ceiling Values, ACGIH Threshold Limits Values (Threshold Limit Value-Time-Weighted Average [TLV-TWA], Threshold Limit Value-Short-Term Exposure Limit [TLV-STEL], and Threshold Limit Value-Ceiling [TLV-C]), or other appropriate OELs.

Occupational Safety and Health Administration Permissible Exposure Limit—regulatory limits on the amount or concentration of a substance in the air. They may also contain a skin designation. OSHA PELs are based on an 8-hour TWA exposure.

Physical Hazard—A chemical that is classified as posing one of the following hazardous effects: explosive; flammable (gases, aerosols, liquids, or solids); oxidizer (liquid, solid or gas); self-reactive; pyrophoric (liquid or solid); self-heating; organic peroxide; corrosive to metal; gas under pressure; or in contact with water emits flammable gas. *See* 29 CFR 1910.1200(g), Appendix B, *Physical Hazard Criteria*.

Portable Container—A container used by one person for one shift and always under the control of the user.

Primary Hazardous Chemical Container—The original container in which the chemical was received from the manufacturer or distributor.

Production—An operation in which large quantities of a limited list of hazardous chemicals are used on a routine basis for synthesis, product manufacture, product preparation, dip tank or painting, solvent cleaning, photographic development, mechanical shops, construction, or maintenance activities.

Regulated Area—An area where entry and exit is restricted and controlled.

Reproductive Toxicants (known human)—Substances that are known to have lethal effects on the fertilized egg, developing embryo, or fetus, or to cause teratogenesis (malformation) in the fetus.

Secondary Container—Any chemical container other than an original container that will be used to store decanted chemicals or mixed chemicals beyond a single workday.

Note: This definition should not be confused with secondary containment for chemical release prevention and control.

Select Carcinogen—A substance regulated by OSHA as a carcinogen, is listed under the category "known to be carcinogens," in the Annual Report on Carcinogens published by the National Toxicology Program (NTP) (latest edition), is listed under Group 1 ("carcinogenic to humans") by the International Agency for Research on Cancer Monographs (IARC) (latest editions), or is listed in either Group 2A or 2B by IARC or under the category, "reasonably anticipated to be carcinogens" by NTP, and causes statistically significant tumor incidence in experimental animals.

Sensitizer—A chemical that causes a substantial proportion of exposed people or animals to develop an allergic reaction in normal tissue after repeated exposure to the chemical.

Short-Term Exposure Limit (STEL)—A 15-minute time weighted average that should not be exceeded at any time during a workday.

Solid Waste—As defined by regulations promulgated under RCRA and the New Mexico Hazardous Waste Act, unless otherwise excluded, is any discarded material, either abandoned, recycled, or inherently waste-like, including liquids, solids, semisolids, and contained gases.

Spill—An unintentional release of a hazardous chemical, liquid, or solid that creates a hazard because of quantity, physical properties, or toxicity.

Stationary Process Container—A non-portable hazardous material container.

Subcontractor—A party entering into a contract with Triad National Security, LLC.

Threshold Limit Value (TLV)—An ACGIH limit that is usually expressed as an 8-hour TWA, meaning a time-weighted airborne contaminant concentration for a normal 8-hour workday and a 40-hour work week, to which nearly all workers may be repeatedly exposed, day after day, over a working lifetime, without adverse effect.

Time Sensitive Chemicals—Those chemicals that, when stored for prolonged periods or under improper storage conditions, can develop hazards that were not present in the original formulation. There are four general categories of time-sensitive chemicals loosely based on those unsafe properties that can develop. They are (1) peroxide formers, (2) peroxide formers that can undergo hazardous polymerization, (3) materials that become shock or friction sensitive upon the evaporation of a stabilizer, and (4) materials that generate significant additional hazards by undergoing slow chemical reactions. It should be noted that time-sensitive chemicals can be pure reagents or they can be commercial mixtures formulated as cleaners, adhesives, and other products.

Note: This definition does not include chemicals that have expiration dates for nonsafety reasons, e.g., inorganic standard solutions that expire one year from purchase.

Toxicant—A material that has the ability to injure biological tissue.

Toxicity—A relative property of a chemical agent that refers to a harmful effect on some biologic mechanism and the condition under which this effect occurs.

9.2 Acronyms

See LANL *Acronym Master List*.

ACGIH	American Conference of Governmental Industrial Hygienists
ALDESHQSS	Associate Laboratory Director for Environment, Safety, Healt, Quality, Safeguards, and Security
ALDFO	Associate Laboratory Director for Facilities and Operations
ANSI	American National Standards Institute
CFR	Code of Federal Regulations
CGA	Compressed Gas Association
CHO	Chemical Hygiene Officer
CHP	Chemical Hygiene Plan
CTS	Comprehensive Tracking System

D&D	Decontaminate and Decommission
DEAR	Department of Energy Acquisition Regulation
DOE	Department of Energy
DOT	Department of Transportation
DPR	Designated Procurement Representative
ESH	Environment, Safety, Health
EPCRA	Emergency Planning and Community Right-to-Know Act
FOD	Facility Operations Director
FSD	Functional Series Document
GHS	Globally Harmonized System
HAZCOM	Hazard Communication
HDBK	Handbook
HEPA	High-Efficiency Particulate Air
HF	Hydrofluoric Acid
IA	Issuing Authority
IARC	International Agency for Research on Cancer
ISEA	International Safety Equipment Association
IWD	Integrated Work Document
IWM	Integrated Work Management
LANL or the Laboratory	Los Alamos National Laboratory
LAMC	Los Alamos Medical Center
MMAQ	MolarMaximum Allowable Quantity
MOV	Management Observation and Verification
MSDS/SDS	Material Safety Data Sheet/Safety Data Sheet
NFPA	National Fire Protection Association
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PIC	Person in Charge
POC	Point of Contact
PPE	Personal Protective Equipment
R&D	Research and Development
RCRA	Resource Conservation and Recovery Act
RLM	Responsible Line Manager
RM	Responsible Manager
RO	Responsible Office
SME	Subject Matter Expert
STEL	Short-Term Exposure Limit
STR	Subcontract Technical Representative
TA	Technical Area
TLV	Threshold Limit Value

TLV-C	Threshold Limit Value-Ceiling
TLV-STEL	Threshold Limit Value-Short-Term Exposure Limit
TLV-TWA	Threshold Limit Value-Time-Weighted Average
TWA	Time-Weighted Average
USI	Unreviewed Safety Issue
USQ	Unreviewed Safety Question
WMC	Waste Management Coordinator

10.0 HISTORY

Revision History		
04/22/08	P101-14, Rev. 0	Renumbered document, ISD 101-14, *Chemical Management*.
04/15/09	P101-14, Rev. 1	Reformatted to meet the requirements as set forth in P311-1, *LANL Policy Review Process*. Updated to address needs identified by the Chemical Management Improvement Project, driven by a Black Belt Project Execution Plan, and captured in Laboratory Issues Management Tracking System (LIMTS). The need to provide a more user-friendly chemical inventory process, and tools to Designated Procurement Representatives (DPRs) and chemical workers is addressed. As part of the provision of a more user-friendly chemical inventory process, drivers based on compliance requirements for chemical management were identified. Divisions responsible for these compliance requirements provided additional requirements for chemical inventory management and tracking, which are now reflected in a Chemlog functional requirements document. The set of requirements is provided in Section 3.3 of the document. There are no new requirements in this document, but the document has been simplified and updated, including combining the Hazard Communication (HAZCOM) plan and the Chemical Hygiene Plan (CHP) into one attachment.
08/11/10	P101-14, Rev. 2	Issued as a PROVISIONAL document until October 11, 2010. Added a requirement to ensure compliance with 29 Code of Federal Regulations (CFR) 1910.119, *Labor, Occupational Safety and Health Standards, Process Safety Management of Highly Hazardous Chemicals (OSHA PSM Rule),* Appendix A. by requiring Facility Operations Directors (FODs) to ensure that quantities are kept below threshold quantities. Updated responsibilities for chemical inventory to reflect ownership by Emergency Operations-Emergency Planning and Preparedness (EO-EPP). Clarified training requirements for “authorized chemical workers” and explained the training requirements for a worker who performs chemical spill/control/mitigation/cleanup.

Revision History		
		Added a requirement that work involving hazardous chemicals is reviewed using a new activity review process or equivalent process. Clarified the requirement for Chemical Hygiene Officers (CHOs), added the requirement that CHOs are assigned by the Division Leader, and added training and responsibilities for CHOs. Added specific requirements for job-specific briefings and/or information. Added the requirement for evaluation of chemicals and chemical reactions before start of laboratory activities.
10/11/10	P101-14, Rev. 2	Document became effective and was no longer PROVISIONAL.
11/30/10	P101-14, Rev. 3	Updated links to ensure correct names; removed irrelevant, incorrect, or duplicative links. Section 3.2: Elimination of a requirement for DPRs and clarification of chemical owner responsibility for procurement. Reducing requirement for justification of keeping chemical containers from six months to five years.
11/30/11	P101-14, Rev. 4	Updated items in Section 3.2 to consider before a chemical is purchased and provided link to list of chemicals with no disposal path. Changed Form 2134, *Medical Surveillance and Medical Certification Program Enrollment Form*, to Form 1793, *Job-Demands Evaluation*. Changed Chemical Management Webpage to Chemical Management Webpage. Updated Section 5.0 to reflect that this Quick Change does not require an Unreviewed Safety Question/Unreviewed Safety Issue (USQ/USI) review. Updated links, titles, and acronyms.
09/27/12	P101-14, Rev. 5	Section 5.0: Updated to reflect effective date of December 17, 2012 for applicable nuclear, high- and moderate-hazard facilities and accelerators. Removed the requirement for the approval by the Person in Charge (PIC) for the applicable Integrated Work Document (IWD). Updated links, titles, and acronyms.
01/08/15	P101-14, Rev. 6	This document cancels PD100, *Occupational Safety and Health*. Performed three-year review in accordance with PD311, *Requirements System and Hierarchy*. Changed the Issuing Authority (IA) from Associate Director for Environment, Safety, and Health (ADESH) to Associate Director for Nuclear and High Hazard Operations (ADNHHO); changed the Responsible Manager (RM) from Industrial Hygiene and Safety Division Leader to Operations Support (OS) Division Leader; and changed the Responsible Office

Revision History		
		(RO) from Industrial Hygiene and Safety Division to Operations Support-Division Office (OS-DO). Addressed revised Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, now aligned with the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Clarified requirements for Chemical Hygiene Officers. Reinserted requirements for chemical inventory. Added new requirements in 29 CFR 1910.1200, *Labor, Occupational Safety and Health Standards, Hazard Communication*. Added requirements for handling of sharps. Clarified and streamlined other chemical management requirements. Revised language in Section 5.0 to reflect Unreviewed Safety Question/Unreviewed Safety Issue (USQ/USI) process and implementation dates for affected facilities. Updated acronyms, links, and organization names. Made other edits and clarifications to resolve vague or inappropriate wording.
08/06/15	P101-14, Rev. 7	Performed three-year review in accordance with PD311, *Requirements System and Hierarchy*. Throughout document: Changed "Chemlog@lanl.gov" to "ChemDB@lanl.gov." Section 1.0: Changed the name from "Hazardous Materials Lifecycle Management Program" to "Chemical Lifecycle Management Program." Section 3.3: Changed how to barcode, enter, and track to the "Support and Resources" tab in the LANL institutional chemical inventory database application. Section 5.0: Updated this section to read, "The requirements in this document are effective on the issue date." Section 6.0: Updated broken link to UTrain course # 25418. Attachment A, Section 1.3: Removed sentence referencing Tools #9. Updated hyperlinks and references.
07/31/17	P101-14, Rev. 7 Admin. Chg. 1	Changed pointer in Table 2, row 7, from Main Document Section 3.7 to 3.6.
08/23/17	P101-14, Rev. 7 Admin. Chg. 2	Section 3.7: Changed "i.e." to "e.g." in paragraph 4. Changed title from P102, *Occupational Medicine*, to P102, *Occupational Health*.
10/16/17	P101-14, Rev. 7 Admin. Chg. 3	Section 6.0, first bullet following third paragraph: Replaced reference to "Course #21464 or equivalent" with "Course #25418, *Chemical Hazard Introduction,* or Course #25997, *Chemical Hazard Communication Introduction."*

Revision History		
3/29/18	P101-14, Rev 8	Sections 2.2 and 3.8: Clarified applicability of requirements with respect to chemicals being moved or transported in a vehicle.
11/01/18	P101-14, Rev 9	This update includes mandated Issues Management actions stemming from Fiscal Year (FY) 2017 Report Emergency Management Program Elements, and Technical Planning Basis, recommended updates to this document (Reference: OSH-DO:17-517) as a result of an event, and addresses crucial safety processes for time-sensitive chemicals. Section 1.0: Updated to focus requirements on chemical management and chemical safety controls. Section 3.2: The link for the ChemDB Footprints Request was updated to provide efficient access to help for ChemDB users. Section 3.2: The link for Safety Basis Threshold Quantity information was added to provide efficient access for chemical owners. Section 3.3: The link for the ChemDB Footprints Request was updated to provide efficient access to help for ChemDB users. This section was also revised to include clear instructions for chemical owners for transferring chemicals to a new owner, a reference to the new Annual Chemical Inventory and Reconciliation FSD, and the requirement to track engineered nanomaterials and biological toxins. Section 3.7: Clarified crucial safety requirements for all time-sensitive chemicals, including peroxidizables. Section 3.8: Reordered to show steps in order, and now includes a link to the LANL Guidance for Reporting and Managing Incident Spills. Section 4.4: Updated to simplify the requirement for a Hazard Communication and Chemical Hygiene Plan. Section 4.6: Updated to remove requirements already addressed in P300, *Integrated Work Management*, and P300-1, *Integrated Work Management for R&D*. It was also updated to simplify wording for carcinogen regulatory requirements. Section 6.0: Clarified institutional training requirements as required in 29 CFR 1910.1200(g), *Labor, Occupational Safety and Health Standards, Hazard Communication* and 29 CFR 1910.1450, *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories*. Refers to Attachment A, Section 1.6, *Methods Used to Inform Workers*. (RLMs are responsible for providing chemical workers with job-specific hazardous chemical information, including labeling requirements for primary containers, secondary containers, stationary process containers, and chemical-containing facility equipment, process equipment or vessels, and piping.). Section 9.1: This section now includes a necessary definition for container, includes engineered nanomaterials and

Revision History		
		biological toxins in the definition for hazardous chemical, has an added definition for a stationary process container, and clarifies the definitions of a designated area for carcinogens and select carcinogens. Attachment A, Section 1.3, *Chemical Inventory Requirements*: Clarifies the annual inventory and reconciliation requirements. Attachment A, Section 1.5, *Labels*: Now includes updated label requirements to address stationary process containers, containers too small to be labeled, chemical containers that are staged and awaiting characterization for a potential disposal path, and other chemical-containing facility equipment, process equipment, or vessels, and piping. Attachment A, Section 1.6, *Methods to Inform Workers*: Now specifies that job-specific hazardous chemical information will include labeling requirements for primary containers, secondary containers, stationary process containers, and chemical-containing facility equipment, process equipment or vessels, and piping. Attachment A, Section 1.11.2, *Additional Requirements for Carcinogens*: Clarified regulated area requirements. Other edits and clarifications were made to resolve vague or inappropriate wording. Updated organizational names throughout document. Updated Sections 11.0, *References*, and 14.0, *Contact*.
02/06/19	P101-14, Rev 9 Admin. Chg. 1	Section 3.0: Added reference to OSH-ISH-FSD-005. Updated link for Prime Contract.
05/03/19	P101-14, Rev 9 Admin. Chg. 2	Section 3.2: Replaced outdated text and link for *Goods and Services Requiring Special Review/Approval*.
06/07/21	P101-14, Rev 10	Revision Changing IA from ALDFO to ALDESHQSS, and RM and RO from ALDFO Ops Support to EPC Division, Section 3.3, Changed responsibility for Chemical Inventory Management and Tracking from ALDFO to ALDESHQSS. Page 7, removed note referencing Chemical Management Tool, Chemical Storage Schemes, as it no longer exists. Deleted Section 4.1, Operations Support, and incorporated responsibilities for ALDESHQSS. Renumbered responsibility sections as appropriate. Updated Contact information for Chemical Management in Section 14.0 to ALDESHQSS, EPC. Added and corrected numerous hyperlinks and updated references. Updated organization names.

11.0 REFERENCES

Prime Contract

Functional Documents

The following Functional Series Documents are created by this Institutional Document.

- OSH-ISH-FSD-005, *Procurement, Management, and Disposal of Controlled Substances*
- FSD-101-14-001, *Annual Chemical Inventory and Reconciliation*

11.1 Other References

- 29 CFR 1910.1200(g), *Labor, Occupational Safety and Health Standards, Hazard Communication*
- DOE O 151.1D, *Comprehensive Emergency Management System*
- P151-1, *LANL Packaging and Transportation Program Procedure*
- 29 CFR 1910.1450, *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories*
- P101-29, *Working with Nanotechnology Materials and Processes*
- P101-15, *Biological Safety*
- P101-8, *Explosives Safety*
- P121, *Radiation Protection*
- P409, *LANL Waste Management*
- 29 CFR 1910.119, *Labor, Occupational Safety and Health Standards, Process Safety Management of Highly Hazardous Chemicals (OSHA PSM Rule),* Appendix A
- MSDS/SDS electronic binder
- ChemDB Footprints Request
- Chemical Categorization web page
- Chemical Threshold Quantities for Safety Basis Categorization with Attachment 1 Dispersion Limited Material-At-Risk for Safety Basis Categorization Protective Action Criteria (PAC)-3
- LANL institutional chemical inventory
- ChemDB
- 10 CFR 1021, *Energy, National Environmental Policy Act Implementing Procedures*
- Chemical Safety Webpage
- 40 CFR 355, *Protection of Environment, Emergency Planning and Notification*
- P300, *Integrated Work Management*
- P300-1, *Integrated Work Management for R&D*
- P101-32, *Worker Exposure Assessments*
- Research Library
- NFPA 45, *Standard on Fire Protection for Laboratories Using Chemicals*

- NFPA 55, *Compressed Gases and Cryogenic Fluids Code*
- NFPA 430, *Code for the Storage of Liquid and Solid Oxidizers*
- NFPA 432, *Code for the Storage of Organic Peroxide Formulations*
- NFPA 484, *Standard for Combustible Metals*
- NFPA 704, *Standard System for the Identification of the Hazards of Materials for Emergency Response*
- P101-34, *Pressure Safety*
- Chemical Management Tool: *Time-Sensitive Chemicals Tool*
- Chemical Safety Tools webpage
- 49 CFR 100–199, *Transportation, Pipeline and Hazardous Materials Safety Administration, Department of Transportation*
- 49 CFR 171.8, *Transportation, General Information, Regulations, and Definitions, Definitions and Abbreviations*
- 49 CFR 173, *Transportation, Shippers—General Requirements for Shipments and Packagings, Parts 115–141 and Parts 403–436*
- SOP-C-DO-003, *On-Site Shipping of Analytical-Scale Samples of Hazardous or Radioactive Materials (DOT Small Quantities)*
- LANL Guidance for Reporting and Managing Incidental Spills
- NFPA 30, *Flammable and Combustible Liquids Code*
- 40 CFR 261, *Protection of Environment, Identification and Listing of Hazardous Waste*
- LANL MSDS/SDS database
- LANL Engineering Standards Manual, ESM, STD-342-100
- Laboratory Industrial Hygiene and Safety Manual
- P781-1, *Conduct of Training*
- OSH-ISH-Form-005 Job Specific Hazardous Chemical Information Checklist
- P101-21, *Chronic Beryllium Disease Prevention Program*
- P101-16, *Industrial Ventilation (non-HVACR)*
- American National Standards Institute/International Safety Equipment Association (ANSI/ISEA) z358.1-2009, *American National Standard for Emergency Eyewash and Shower Equipment*
- LANL Operations and Maintenance Manual, Criterion 407: Emergency Eyewash and Shower Equipment
- 29 CFR 1910 Subpart Z, *Labor, Occupational Safety and Health Standards, Toxic and Hazardous Substances*
- 29 CFR 1910.1003, *Labor, Occupational Safety and Health Standards, 13 Carcinogens*
- P101-19, *Safety Signs, Labels, and Tags*
- *Signs, Labels, & Tags Integral to Safe Operations*
- P101-6, *Personal Protective Equipment*
- PD1200, *Emergency Management*

- P102, *Occupational Health*
- OPEX at LANL
- Working with Sharps
- Management of Waste Sharps
- 49 CFR, *Transportation*
- 29 CFR 1926.21, *Labor, Safety and Health Regulations for Construction, Safety Training and Education*
- 40 CFR 262, *Protection of Environment, Standards Applicable to Generators of Hazardous Waste*
- LANL Category 1 Chemicals list
- 10 CFR 851, *Energy, Worker Safety and Health Program*
- *Montreal Protocol on Substances that Deplete the Ozone Layer*
- Public Law 101-549, *Clean Air Act Amendments of 1990*
- 29 CFR 1910.1020, *Labor, Occupational Safety and Health Standards, Access to Employee Exposure and Medical Records*
- 40 CFR 61, *Protection of Environment, National Emission Standards for Hazardous Air Pollutants*
- 40 CFR 63, *Protection of Environment, National Emission Standards for Hazardous Air Pollutants for Source Categories*
- 40 CFR 68, *Protection of Environment, Chemical Accident Prevention Provisions*
- 40 CFR 82, *Protection of Environment, Protection of Stratospheric Ozone*
- 40 CFR 263, *Protection of Environment, Standards Applicable to Transporters of Hazardous Waste*
- 40 CFR 268, *Protection of Environment, Land Disposal Restrictions*
- 40 CFR 302, *Protection of Environment, Designation, Reportable Quantities, and Notification*
- 40 CFR 370, *Protection of Environment, Hazardous Chemical Reporting: Community Right-to-Know*
- 40 CFR 372, *Protection of Environment, Toxic Chemical Release Reporting: Community Right-to-Know*
- 40 CFR 700–799, *Protection of Environment, Toxic Substances Control Act*
- Compressed Gas Association (CGA) *Publications*
- 49 CFR 171-185, *Transportation, Hazardous Materials Regulations*
- DOE-HDBK (Handbook)-1139/2-2006, *Chemical Management (Volume 2 of 3)*, *Chemical Safety and Lifecycle Management*
- DOE-HDBK-1139/3-2003, *Chemical Management (Volume 3 of 3)*, *Consolidated Chemical User Safety and Health Requirements*
- P301, *Research Sample Management for Quality R&D*
- Designated Procurement Representative (DPR)

12.0 FORMS

There are no forms associated with this document.

13.0 ATTACHMENTS

Attachment A. *LANL Hazard Communication and Chemical Hygiene Plan*

14.0 CONTACTS

Chemical Management: ALDESHQSS, EPC Division
Website: https://int.lanl.gov/services/chemical-management/
Chemical Safety: OCC Safety and Health Division
Website: https://int.lanl.gov/safety/industrial_hygiene_and_safety/chemical-safety/index.shtml

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Attachment A. LANL Hazard Communication and Chemical Hygiene Plan (Page 1 of 13)

1.0 INTRODUCTION

A Chemical Hygiene Plan (CHP) is required by 29 Code of Federal Regulations (CFR) 1910.1450, *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories*, which applies to facilities where multiple chemicals are used in laboratory scale quantities or Research and Development (R&D). A written Hazard Communication (HAZCOM) Plan is required by 29 CFR 1910.1200(g), *Labor, Occupational Safety and Health Standards, Hazard Communication,* and 29 CFR 1926.59, *Labor, Safety and Health Regulations for Construction, Hazard Communication*, which apply to workers who use chemicals in shops, maintenance activities, construction or facility work, product manufacture, laboratory analysis, environmental restoration, or decommissioning activities. This attachment covers both standards. Areas where only one standard applies will be noted in the text.

Personnel exposure to chemical agents is to be minimized, and maintained within acceptable exposure limits. Exposures will be minimized by the use of hazard elimination, hazard substitution, engineering controls, administrative controls, and Personal Protective Equipment (PPE). Every employee, guest, visiting scientist, student, or subcontractor working on or off-site will be familiar with and comply with appropriate Los Alamos National Laboratory (LANL or the Laboratory) safety standards.

This plan includes:

- procedures to be followed when work involves the use of hazardous chemicals,
- criteria used to determine and implement control measures to reduce employee exposure to hazardous chemicals through the Integrated Work Management (IWM) and Worker Exposure Assessment processes,
- methods used to inform workers of non-routine tasks and hazards associated with chemicals in unlabeled pipes through the IWM process,
- requirements for:
  - fume hoods and other protective equipment,
  - employee information and training,
  - authorization and approval of activities through the IWM process,
  - additional employee protection for work with particularly hazardous substances in accordance with 29 CFR 1910.1450, *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories.*
  - a hazardous chemical listing, and
  - subcontractor personnel in terms of HAZCOM.

1.1 Purpose

The purpose of this Hazard Communication and Chemical Hygiene Plan is to provide workers with the specific requirements for chemicals used during work, the hazards involved, the forms of warning, Material Safety Data Sheets/Safety Data Sheets (MSDS/SDSs), and the procedures and work practices to minimize their exposure to those chemicals.

1.2 Scope

HAZCOM applies to the use of chemicals in shops, maintenance activities, construction or facility work, product manufacture, the use of chemicals in a process in excess of 40 pounds or 5 gallons (see 40 CFR 355, *Protection of Environment, Emergency Planning and Notification*), environmental restoration, or decommissioning activities.

The CHP applies to work with small quantities of chemicals where the work can be safely manipulated by one person and multiple chemical procedures or multiple chemicals are used.

1.3 Chemical Inventory Requirements

A list of the hazardous chemicals known to be present at the Laboratory is maintained in ChemDB. Primary hazardous chemical containers must be barcoded, and entered and tracked in the database.

Note: Most primary hazardous chemical containers ordered through standard purchasing agreements will be delivered to the user with a barcode and will already be listed in ChemDB.

The chemical owner is responsible for ensuring the entry was accurately made in ChemDB (e.g., owner, name of chemical, location). Some hazardous chemical containers (e.g., P-card purchases) may be delivered without a barcode. Chemical owners are responsible for barcoding these containers and entering them into ChemDB. When a primary hazardous chemical container is transferred to a new owner and/or a new location; or is disposed, the chemical owner is responsible for updating ChemDB.

Responsible Line Managers (RLMs) are accountable for accurate chemical inventories and are responsible for ensuring that physical inventories of their primary hazardous chemical containers are performed annually to verify the accuracy of the LANL institutional chemical inventory database (ChemDB). An annual reconciliation of the physical inventory results and update of ChemDB is required.

Note: Accuracy of the Laboratory's chemical inventory is very important. For example, in accordance with 40 CFR 370, *Protection of Environment, Hazardous Chemical Reporting: Community Right-to-Know*, "The owner or operator or the officially designated representative of the owner or operator must certify that all information included in the Tier II submission is true, accurate, and complete…under penalty of law... " The accuracy of the Laboratory's Tier II submittal (annual hazardous chemical report) is dependent on the accuracy of the Laboratory's chemical inventory.

For assistance with the ChemDB, please submit a ChemDB Footprints Request.

1.4 Material Safety Data Sheets/Safety Data Sheets (MSDS/SDSs)

Access to MSDS/SDSs is provided through a link on the Chemical Safety Webpage.

For chemicals acquired prior to December 1, 2015: MSDSs are available for all hazardous chemicals and hazardous chemical mixtures in ChemDB through the LANL MSDS/SDS database. If specific manufacturer MSDS/SDSs are not available, refer to the Laboratory Chemical Safety Webpage for commercial MSDS/SDS databases.

For chemicals acquired after December 1, 2015, or for chemicals for which an SDS has been created: SDSs are available for all hazardous chemicals and hazardous chemical mixtures in ChemDB through the LANL MSDS/SDS database. If specific manufacturer SDSs are not available, refer to the Laboratory Chemical Safety Webpage for commercial MSDS/SDS databases.

Manufacturer's MSDS/SDSs are provided to OCC Safety and Health Division-Industrial Safety and Hygiene Group as part of the I-procurement process. If a chemical owner has acquired the chemical through another process, e.g., Pcard, the manufacturer's MSDS/SDS must be provided to OCC Safety and Health Division-Industrial Safety and Hygiene Group.

Note: This does not apply to samples being submitted for analysis.

New chemicals developed at the Laboratory for internal use will be evaluated by the chemical owner to determine if they are hazardous (CHP only). If it is determined the chemicals are hazardous, the information will be included in the Integrated Work Document (IWD), thus allowing for the chemical workers to receive information on how to control the hazard. If the chemical produced is a byproduct whose composition is not known, the chemical will be assumed to be hazardous and handled accordingly. If an employee produces a new chemical, and plans to ship it off-site for use or distribution, an MSDS/SDS is required to be created and shipped with the chemical. For chemicals created at the Laboratory, ISH will be contacted for assistance in creating an MSDS/SDS.

1.5 Labels

Labels on containers, including primary containers, secondary containers, and stationary process containers must be maintained. This means that labels must be maintained in a manner that allows the information on the label to be legible. Chemical containers too small to be labeled may be placed in a secondary storage container with the required labeling; the chemical owner must return the containers to the secondary storage container when not in active use.

Note: All hazardous chemicals shipped after June 1, 2015, must be labeled with specified elements including pictograms, signal words and hazard and precautionary statements. However, manufacturers, importers, and distributors may start using the new labeling system in the revised HCS before the June 1, 2015 effective date if they so choose. LANL is not responsible for updating labels on shipped containers, even if the shipped containers are labeled under the 1994 Hazard Communication Standard, unless the labels have been removed or defaced. However, if there are newly identified hazards that are not disclosed on the label, RLMs and PICs must ensure that the workers are aware of the hazards as discussed below under workplace labels.

Primary chemical containers associated with the 1994 Hazard Communication Standard will have a label with the chemical name, and hazard warning. The hazard warning is a statement of the hazardous effect of the chemical (e.g., "flammable" or "causes lung damage") or a numerical rating such as that found on the NFPA label.

When one transfers a material from the original manufacturer's container to other vessels, these vessels are referred to as "secondary containers." Secondary containers in HAZCOM areas will include the chemical name, creation date, hazard warning, and manufacturer. Secondary containers in CHP areas will include the name of the chemical, date created, and the owner of the container.

Stationary process containers (non-portable hazardous material containers) may be primary or secondary containers, and must be labeled in accordance with labeling requirements for primary or secondary containers. Stationary process containers must be labeled in such a way that facility personnel may identify the chemical hazards associated with the contents of the container. Stationary containers may be labeled with one of the following alternative methods: sign, placard, process sheet, batch ticket, operating procedure, or other written material. These alternatives to affixing labels directly to individual stationary process containers are acceptable, as long as the alternative method identifies the applicable containers, conveys the information required for a primary or secondary container, and is readily available to facility personnel, emergency management personnel, and chemical users.

Chemical containers with unknown chemical contents that are staged and awaiting characterization for a potential disposal path must be labeled, either on the container or within a secondary containment for the container, with:

- Point of Contact (POC) name and contact information,
- Organization, and
- Any known information, e.g., hazard class, project, date of receipt or creation.

Other chemical-containing facility equipment, process equipment or vessels, and piping must be labeled in accordance with the STD-342-100 *LANL Engineering Standards Manual*.

Portable containers into which hazardous chemicals are transferred and which are intended only for the immediate use (i.e., use by one worker for one day, and always under the control of that one worker) of the chemical worker who performed the transfer are not required to be labeled. However, it is good practice to label the container with the name of the chemical and the owner.

Contact the CHO and OCC Safety and Health Division-Industrial Safety and Hygiene Group for assistance in developing labels

1.6 Methods Used to Inform Workers

Workers use the IWM process (see P300, *Integrated Work Management*) and P300-1, *Integrated Work Management for R&D* to develop a work document for the proposed work activity. The work document describes the scope, location, duration, hazards and environmental aspects, and controls (including PPE) to mitigate the hazards and negative environmental impact of the work. The IWD is used to authorize the work in accordance with P300 *Integrated Work Management* and P300-1, *Integrated Work Management for R&D*. IWDs or other work documents will be used to address tasks involving hazardous chemicals.

Responsible Line Managers (RLMs) will ensure that all work involving hazardous chemicals is reviewed for impacts on security, environment, safety and health, facility or equipment, and facility safety basis concerns in accordance with P300 *Integrated Work Management* and P300-1 *Integrated Work Management for R&D* At a minimum, the following steps will be performed:

1. Initially categorize hazardous chemical work in accordance with P300 *Integrated Work Management* and P300-1 *Integrated Work Management for R&D* If categorized as high hazard/complex work, assemble a hazard analysis review team (see P300 *Integrated Work Management* and P300-1 *Integrated Work Management for R&D*). In addition to the required members for the team, include deployed industrial hygienist(s), and other hazardous chemical Subject Matter Experts (SMEs).
2. Create a detailed description of the work for the IWD involving hazardous chemicals that identifies the hazards associated with performing the work.
3. Specify hazard controls within the IWD using the following hierarchy of controls.
   a. Elimination or Substitution
   b. Engineering Controls
   c. Administrative Controls
      - qualifications
      - formal procedures
      - training
      - work practices
   d. PPE

Note: Guidance for Preparing IWDs: Consider and understand the potential for generating new hazardous chemical-bearing waste streams. Consider substituting a less hazardous chemical and speak with your Waste Management Coordinator (WMC) before creating new waste streams.

4. Contact your deployed industrial hygienist to perform a qualitative exposure assessment in accordance with the Laboratory Industrial Hygiene and Safety Manual to evaluate the potential for worker exposure to hazardous chemicals.

Your deployed industrial hygienist will work with subcontractor personnel to ensure that the potential for subcontractor worker exposure to hazardous chemicals is evaluated before removing, remodeling, servicing, maintaining, or repairing laboratory equipment and exhaust systems.

5. As part of the P300, *Integrated Work Management* and P300-1, *Integrated Work Management for R&D* requirement processes for competent workers, RLMs are responsible for providing chemical workers, including subcontractors, with job-specific hazardous chemical information, including:

- any operations in their work area where hazardous chemicals are present;

- the location and availability of the MSDS/SDS (and other references) associated with each hazardous chemical, including the Occupational Exposure Limit (OEL), signs and symptoms associated with exposures, safe handling, storage and disposal; and
- labeling requirements for primary containers, secondary containers, stationary process containers, and chemical-containing facility equipment, process equipment or vessels, and piping (see Section 1.5, *Labels*).

Job-specific information may be provided as training, per P781-1, *Conduct of Training*. If job-specific information is determined by the RLM to not require formal training per P781-1, *Conduct of Training,* this information may be provided in the form of a documented briefing (e.g., pre-job briefings, informational meetings). A tool to document this briefing is found on the LANL Chemical Safety webpage (OSH-ISH-Form-005 Job-Specific Hazardous Chemical Information Checklist).

1.7 Worker Exposure Assessments

Worker exposure assessments, including exposure monitoring, will be conducted in accordance with applicable sections of:

- P101-21, *Chronic Beryllium Disease Prevention Program*
- P101-32, *Worker Exposure Assessments*
- the Laboratory Industrial Hygiene and Safety Manual

1.8 Use and Maintenance of Laboratory Fume Hoods

Requirements that will be followed for the proper design, operation, and use of laboratory fume hoods are located in P101-16, *Industrial Ventilation (non-HVACR)*.

1.9 Chemical Hygiene Officer (CHO) (Chemical Hygiene Plan [CHP] Only)

The LANL CHO resides in OCC Safety and Health Division-Industrial Safety and Hygiene Group. Each Division Leader will appoint a CHO to provide technical guidance to line management and chemical workers (CHP only). The CHO will be an authorized chemical worker with the education and experience to determine the hazards and consequences of exposure to the chemicals found in the chemical inventory.

*1.9.1 **Roles and Responsibilities*** (Based on 29 CFR 1910.1450, *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories, Appendix A [nonmandatory] and Prudent Practices for Handling Hazardous Chemicals in Laboratories)*

LANL CHO:

- Establish, maintain, and revise the CHP.
- Create and revise CHP documentation.
- Communicate chemical safety lessons learned to Division CHOs for dissemination.

Division CHO:

- Liaise with the LANL CHO.
- Monitor procurement, use, and disposal of chemicals used in the Division.
- Seek ways to improve the LANL Hazard Communication and Chemical Hygiene program.

- Perform MOVs with Division management of laboratories, preparation rooms, and chemical storage rooms.
- Assist laboratory owners in developing and maintaining adequate facilities.
- Provide assistance to Division members for proposed research activities that involve hazardous chemicals.

1.10 Safety Showers and Eye Washes

Safety Showers and Eye Washes will be maintained, inspected, and tested periodically as required by American National Standards Institute (ANSI)/International Safety Equipment Association (ISEA) z358.1-2009 *American National Standard for Emergency Eyewash and Shower Equipment*, with the exception of weekly activation of safety showers. Activation of safety showers will be done on a quarterly basis due to issues associated with containment of test water. See LANL Operations and Maintenance Manual, Criterion 407: Emergency Eyewash and Shower Equipment.

1.11 Provisions for Additional Employee Protection

1.11.1 Work with Known Human Carcinogens, Reproductive Toxins

Special handling procedures are necessary to minimize exposures to known human carcinogens' and reproductive toxins. Note: if pregnant or planning a pregnancy, contact Occupational Safety and Health – Occupational Health OSH-OH). See LANL Reproductive Health Assistance Program.

Handling procedures for these agents will be defined in laboratory or work authorization documents and approved by Deployed Environment, Safety, and Health Division personnel before initiation of work.

Specific consideration will be given to the following controls, to be used as appropriate for the agent and process: establishment of designated areas (i.e., areas that will be used for work with select carcinogens, reproductive toxins or substances which have a high degree of acute toxicity); use of containment devices such as laboratory fume hoods or glove boxes; procedures for safe removal of contaminated waste; and decontamination procedures (see 29 CFR 1910.1450, *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories* [e] [3] [viii]).

Decontamination is necessary before the affected work area may be released from "designated area" status. The type and level of decontamination must be defined. After decontamination, the area will no longer be considered a "designated area," and all warning and control signs will be removed. A wet mop or a vacuum cleaner equipped with a High-Efficiency Particulate Air (HEPA) filter will be used instead of dry sweeping.

1.11.2 Additional Requirements for Carcinogens

A regulated area (an area where entry and exit is restricted and controlled) will be established in accordance with 29 CFR 1910 Subpart Z, *Labor, Occupational Safety and Health Standards, Toxic and Hazardous Substances*. See OSHA, ACGIH A1, ACGIH A2, and ACGIH A3 Carcinogen List for regulated area requirements for specific carcinogens.

Less-hazardous, non-carcinogenic chemicals that may be substituted for currently used carcinogens will be substituted when compatible with the work to be accomplished.

All areas in which carcinogens are used or stored will meet the following conditions:

- Clearly marked by posting signs warning of a carcinogen hazard. Additional signs and labels are required when OSHA-regulated carcinogens are in use. See P101-19, Safety Signs, Labels, and Tags and Signs, labels and tags integral to safe operations.
- Signs posted prohibiting eating, drinking, gum chewing, smoking, or applying cosmetics or lip balm.
- Ventilation and hood performance that meet minimum requirements before beginning any new operations involving carcinogens. (See P101-16, Industrial Ventilation [non-HVACR].)
- Evaluation of carcinogen storage and use using the Laboratory Industrial Hygiene and Safety Manual, Chapter 33, Carcinogens.

Decontamination procedures for equipment and facilities will be documented in an IWD before new carcinogens are used.

For carcinogens included in 29 CFR 1910.1003, *Labor, Occupational Safety and Health Standards, 13 Carcinogens,* these additional requirements apply:

- Avoid transferring carcinogens into secondary containers.
- Work with carcinogens will be conducted in a fume hood, sealed system, or other suitable engineering control.
- Wear full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers, appropriate gloves and respiratory protection as described in 29 CFR 1910.1003(c)(4)(iv).
  - Wash hands upon completion of work with carcinogens.

For laboratory areas that fall under 29 CFR 1910.1450, *Occupational Exposure to Hazardous Chemicals in Laboratories* these requirements apply:

- Employee exposure is below the OEL,
- Eye and skin contact is prevented using the hierarchy of controls, and
- Use of the carcinogen meets the following conditions:
  - Chemical manipulations are carried out on a "laboratory scale;"
  - Multiple chemical procedures or chemicals are used;
  - The procedures involved are not part of a production process, nor in any way simulate a production process; and
  - "Protective laboratory practices and equipment" are available and in common use to minimize the potential for employee exposure to hazardous chemicals.

1.11.3 Evaluation of Laboratory Operations

Before laboratory tests or chemical reactions begin, evaluations must be made for hazards that may be encountered or generated during the course of the work.

Evaluations must include the hazards associated with the properties and the reactivity of the materials used and any intermediate and end products that can be formed, hazards associated with the operation of the equipment at the operating conditions, and hazards associated with the proposed reactions, for example, oxidation and polymerization.

Where reactions are being performed to synthesize materials, the hazard characteristics of which have not yet been determined by test, precautions must be employed to control the highest possible hazard based on a known hazard of similar material.

Where use of a new material might present an explosion potential, initial experiments or tests must be conducted in an enclosure that is designed to protect people and property from potential explosion damage.

Unattended or automatic laboratory operations involving hazardous chemicals must be equipped with regular surveillance for abnormal conditions.

1.12 Personal Protective Equipment (PPE)

The Laboratory requires that suitable clothing and equipment be used to protect workers and others in Laboratory spaces from hazards in the workplace. PPE is intended to protect the body (including eyes, face, feet, hands, head, hearing, and respiratory system) from hazards capable of causing injury, illness, or impairment of bodily function. No protective material will provide full protection against all hazards. PPE is considered for use as a hazard control strategy only after it has been determined that elimination, substitution and engineered and administrative controls are not feasible, or in the interim while engineered and administrative controls are being designed and implemented. Proper PPE will be identified in the work authorization documentation.

The level of protection and type of PPE selected will match the applicable hazards. See P101-6, *Personal Protective Equipment*.

1.13 Flammable Liquids Storage Cabinets

A flammable liquids storage cabinet is a cabinet that is Underwriters Laboratories listed or Factory Mutual approved for storage of flammable liquids. The Fire Protection Division should be contacted for questions on what qualifies as a flammable storage cabinet and the chemical limits.

Not more than 60 gallons of Class I and/or Class II liquids, or not more than 120 gallons of Class III liquids may be stored in an individual cabinet. Storage cabinets shall be designed and constructed to limit the internal temperature to not more than 325ºF when subjected to a standardized 10-minute fire test. Storage cabinets shall be conspicuously labeled, "Flammable - Keep Fire Away."

The bottom, top, door, and sides of metal cabinets shall be at least No. 18 gage sheet metal and double walled with 1½-inch air space. The door shall be provided with a three-point lock, and the doorsill shall be raised at least 2 inches above the bottom of the cabinet.

Note: Do not store compressed gases in these cabinets. Compressed gases must be stored in accordance with requirements found in P101-34 Pressure Safety.

1.14 Hydrofluoric Acid (HF)

Hydrofluoric Acid (HF) is a particularly dangerous acid because of its unique ability among acids to penetrate tissue. This ability to penetrate tissue allows HF to cause severe systematic toxicity from even relatively small dermal exposures. For this reason, the following requirements and recommended safe practices apply to work with HF:

Requirements:

- Substitute less hazardous fluoride compounds, where possible, e.g., use aluminum fluoride instead of HF to remove silicates from aqueous solutions.
- An Integrated Work Document (IWD) (see P300*, Integrated Work Management* and P300-1 *Integrated Work Management for R&D*) is required for work with HF. The IWD must include the first-aid procedure in case of an exposure and what to do in case of a spill.
- As required in P300 *Integrated Work Management*, the IWD must be readily accessible where the activity is being conducted.
- A Material Safety Data Sheet/Safety Data Sheet (MSDS/SDS) must be available.
- Before working with HF, workers must read the MSDS/SDS, read the IWD, complete training on the first-aid procedure in case of an exposure, and know what to do in case of a spill.
- Workers must be authorized in accordance with the requirements in P300*, Integrated Work Management* and P300-1 *Integrated Work Management for R&D*.
- Workers who work with HF must be trained on first aid procedures associated with HF exposure (see LANL Course #44498, First Aid Response to Hydrofluoric Acid).
- Personal protection by engineered controls, personal protective equipment, or a combination is required for HF use. Controls must be commensurate with the HF hazard represented by a specific use or process involving HF. Your deployed industrial hygienist will assist in the development of and approve personal protective equipment and engineered controls for HF uses and processes through IWD development.
- A calcium gluconate skin exposure mitigation kit must be located in close proximity to the work involving HF, and must be in place before work begins. The kit must be replaced with new stock annually. A list of HF first-aid trained personnel must be posted near the kit.
- An HF spill kit must be available with calcium compounds such as calcium carbonate, calcium sulfate, or calcium hydroxide. It is advised that facilities that use or handle HF maintain on hand adequate compatible spill control materials to absorb or contain the volume of the largest volume container of HF commonly within the facility. In facilities with a “no spill cleanup” policy, these materials will supplement that which is immediately available to Hazardous Material (HAZMAT) first responders. Sodium bicarbonate should never be used with an HF spill since it does not bind the fluoride ion and can generate toxic aerosols.

Safe Practices

- Never work alone with concentrated (approximately six molar (M) or greater) HF or large volumes of dilute HF; use a buddy system. It is highly recommended that HF work not be conducted during hours when facilities may have minimum personnel such as nights and weekends, so there are adequate personnel to render aid in the event of an accident or spill.
- Use an HF-compatible tray or other suitable container while working with HF for containment in case of a spill.

- Store HF in compatible materials (e.g., Teflon, fluorinated ethylene propylene, polyethylene, etc.) containers and keep containers closed.
- Label all nonoriginal containers that contain HF and solutions other than that for immediate use (See Section 1.5).
- Store the stock HF in HF-compatible plastic secondary containment and label the cabinet as containing HF. Store HF in lower cabinets near the floor. Store HF with other inorganic acids and away from bases, flammables, or oxidizers.
- Wash or wipe gloves with water before removing them, if permissible, by specific laboratory protocols.
- Protect exposed skin and nonresistant or absorbent clothing through:
  - enclosed processes and uses,
  - chemical fume hoods with sash down,
  - gloveboxes with HF-compatible gloves and windows,
  - specially engineered process enclosures, e.g., ventilated cabinets,

    Note: Concentrated HF and hydrogen fluoride gas from reactions can etch the glass hood sash on a fume hood and make it hard to see through. If the hood sash becomes fogged and hard to see through because of etching, contact your Facility Operations Director (FOD) representative about installing a polycarbonate sash. In some cases, hood sashes as well as glove box windows may be protected before exposure with a transparent film of Polyvinylidene Fluoride (PVDF, Kynar, Hylar, and Sygef) or other HF-resistant plastic.

  - HF-resistant rubber or plastic apron,
  - HF-resistant plastic arm coverings,
  - HF-resistant gloves and glove combinations,
    - incidental use of dilute acid solutions–double gloves with heavy nitrile exam gloves; re-glove if there is any exposure to the gloves,
    - extended use of concentrated acid–heavy neoprene or butyl gloves worn over nitrile gloves,
    - fluorinated polymer gloves for high-concentration and/or high-concentration HF gas exposure,
  - closed toe shoes or chemical resistant boots,
  - long pants and a long-sleeve shirt with a reasonably high-neck (not low-cut).
- Protect the face and eyes through
  - safety glasses in conjunction with chemical fume hoods with sash down (dilute solutions),
  - splash goggles in conjunction with a fume hood sash (high-concentration, high-reactivity process), and
  - face shield in conjunction with splash goggles (open processes, open hood sash).

No: P101-14 Chemical Management
Attachment A. LANL Hazard Communication and Chemical Hygiene Plan (Cont.) (Page 12 of 13)

1.15 Emergency Procedures

Emergency procedures will be in accordance with requirements contained in P1201-4, *LANL Incident Reporting and Protective Actions*.

1.16 Medical Surveillance

Medical surveillance requirements will be in accordance with requirements contained in P102, *Occupational Health*.

1.17 Worker Information, Training and Authorization

Chemical workers who work with hazardous chemicals will receive training about those chemicals before they begin work. Chemical workers receive this training through a combination of formal training, reading assignments and job-specific information as specified in the work authorization documentation. Chemical workers who work in areas where hazardous chemicals are used, but who do not work directly with such chemicals, will be made aware of the hazards before they begin work in those areas. Formal training will be conducted and documented in accordance with Laboratory training policy. Chemical workers will be trained on chemicals in use in their workplace at the time of initial assignment and whenever new hazards are introduced. See Section 6.0 of this document. Chemical workers may also access OPEX at LANL for lessons learned on hazardous chemicals.

1.18 Use of Non-medical Sharps

- Use the correct tool for the job, i.e., a box cutter to open or break down boxes.
- Do not shear, clip, or bend needles. Do not recap used disposable hypodermic needles. Do not remove used disposable hypodermic needles from the syringe. If you are using a glass syringe and a non-disposable needle, use extreme caution when recapping the needle, or removing the needle. To recap a non-disposable needle, use either a one-handed “scoop” technique or a mechanical device designed for holding the needle sheath.
- Do not walk with an unprotected sharp.
- Dispose of sharps at the point of use.
- Use needleless systems, or a blunt needle whenever possible.
- Organize your workspace so that all materials for the experiment are ready and available before accessing the sharp device. This helps reduce the chance of having to set an exposed needle down on the lab bench in order to retrieve other necessary supplies.
- Be prepared to use the device the moment the sharp is exposed (e.g., when the needle is uncapped, the razor blade removed from its wrapper).
- Make sure you have adequate lighting to perform the task involving the sharp.
- Keep exposed sharps pointed away from yourself and others.
- Never directly hand an exposed sharp to another person. Instead, designate a “sharps passing zone” where exposed sharps are set down prior to being picked up by another person.
- Be accountable for the sharps you use.
- Look around after you complete your work and make sure that all sharps have been disposed of properly.

- Store sharps in a safe manner. Protect the sharp with a cap, cover, or store it in a rigid container.
- Use a dedicated, labeled sharps storage area.

Disposal of Non-medical Sharps:

- Hypodermic needles and contaminated sharps must always be discarded in an approved, rigid, leak-proof sharps container. Do not overfill the container. Do not open sharps containers. Note: sharps containers for personal medical use are available at Occupational Medicine.
- Do not discard loose sharps or sharps containers in the regular trash.
- **Broken glass:** (no regulated chemical or biohazard contamination): Carefully sweep up any broken pieces into a dustpan and place them in a hard sided closed container (e.g., cardboard box) labeled “broken glass” with the technical area (TA), building number, room number and generator’s name written on the container. The container may be placed in the regular trash provided the broken glass is not contaminated; coordinate disposal with your WMC.
- **Chemical contaminated sharps**: Store in leak-proof, rigid, puncture-resistant containers that are manufactured for the purpose of sharps containment and are taped closed or tightly lidded to preclude loss of contents. Label and manage in accordance with regulatory requirements for the material with which they are contaminated. Contact your WMC for assistance.
- **Uncontaminated (no rad, chemical, or biological) Sharps**: Store in leak-proof, rigid, puncture-resistant containers that are manufactured for the purpose of sharps containment and are taped closed or tightly lidded to preclude loss of contents. Label the container “non-infectious and non-hazardous waste” with the TA, building number, room number and generator’s name written on the container. The container can be placed in the regular trash; however, coordinate with your WMC.
- **New Mexico special waste sharps (infectious waste sharps):** Refer to ADESH-AP-Tool-500 *Management of New Mexico Special Waste*.
- The Chemical Safety Webpage also contains guidance on Working with Sharps and Management of Waste Sharps.

IMPORTANT

If you wish to receive credit for the preceding document you **must** enter the course through *UTrain* **not** the Policy Office website.

ATTACHMENT 28: SPCC PLAN FOR THE TA-60 ASPHALT BATCH PLANT

SPCC-PLN-60-01	Revision: 1	Los Alamos NATIONAL LABORATORY EST. 1943
Effective Date: 06/26/2024	Next Review Date: 06/26/2029	

Los Alamos National Laboratory

Spill Prevention Control and Countermeasures Plan

TA-60 Asphalt Plant

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:

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Derivative Classifier: ☒ **Unclassified or** ☐ _____

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General Requirements Cross Reference

Final SPCC Rule	Description of Section	SPCC Section
Subpart A. Applicability, Definitions, and General Requirements for All Facilities and All Types of Oils: 40 CFR 112.1 – 7		
§ 112.7	General requirements for SPCC Plans for all facilities and all oil types.	General Requirements Cross Reference, certification and management approval pages
§112.7(a.1, 2)	Discussion of facility's conformance with rule requirements; deviations from Plan requirements.	Section 1.1. Conformance
§112.7(a.3.i, iii)	Facility characteristics that must be described in the Plan; facility diagram.	Section 2. Facility Information, Appendix B
§112.7(a.3.ii, iv, v, vi; a.4; a.5)	Spill prevention, response and reporting information in the Plan; emergency procedures.	Section 5. Spill Prevention and Control, Section 2.3.2 Oil Transfer Equipment/Operations
Subpart B. Requirements for Petroleum Oils and Non-Petroleum Oils, Except Animal Fats and Oils and Greases, and Fish and Marine Mammal Oils; and Vegetable Oils (including Oils from Seeds, Nuts, Fruits, and Kernels): 40 CFR 112.8 – 11		
§ 112.7(b)	Fault analysis.	Section 4. Potential Spill Volumes and Rates, Appendix G
§ 112.7(c)	Secondary containment/diversionary structures.	Section 2. Facility Information, Appendix C
§ 112.7(d)	Contingency planning.	N/A
§ 112.7(e)	Inspections, tests, and records.	Section 1.2. Scope, Section 6. Inspections, Section 7. Recordkeeping, Appendix D
§ 112.7(f)	Employee training and discharge prevention procedures.	Section 9. Training, Appendix G
§ 112.7(g)	Security (excluding oil production facilities).	Section 5.3. Security
§ 112.7(h)	Loading/unloading (excluding offshore facilities).	Section 2.3.2. Oil Transfer Equipment/Operations
§ 112.7(i)	Brittle fracture evaluation requirements.	Section 1.1. Conformance, Section 2.3.1. Tanks
§ 112.7(j)	Conformance with State requirements.	Section 1.1. Conformance
§ 112.8	Requirements for onshore facilities (excluding production facilities).	Throughout Plan
§ 112.8(a)	General and specific requirements.	Throughout Plan
§ 112.8(b)	Facility drainage.	Section 2.2. Site Assessment/Location, Section 2.3. Description
§ 112.8(c.1)	Bulk storage containers - compatibility.	Section 2.3.1. Tanks
§ 112.8(c.2, 3)	Bulk storage containers – containment, drainage.	Section 1.1. Conformance, Section 2.3. Description
§ 112.8(c.6)	Bulk storage containers – testing.	Section 1.1. Conformance, Section 2.3.1. Tanks, Section
§ 112.8(c.4, 5, 7, 9)	Bulk storage containers – buried tanks, leakage, effluent treatment.	N/A
§ 112.8(c.8)	Bulk storage containers – installation.	Section 2.3. Description
§ 112.8(c.10, 11)	Bulk storage containers – discharges, discharge prevention.	Section 1.1. Conformance, Section 2.3. Description, Section 5. Spill Prevention and Control, Section 6. Inspections
§ 112.8(d.1)	Facility transfer operations, pumping, and facility process – buried piping.	N/A

§ 112.8(d.2)	Facility transfer operations, pumping, and facility process - connections.	Section 1.1. Conformance, Section 2.3.2. Oil Transfer Equipment/Operations
§ 112.8(d.3)	Facility transfer operations, pumping, and facility process - supports.	Section 2.3. Description
§ 112.8(d.4)	Facility transfer operations, pumping, and facility process - inspections.	Section 6. Inspections
§ 112.8(d.5)	Facility transfer operations, pumping, and facility process - warnings	Section 2.3. Description, Section 5.3. Security
§ 112.9, § 112.10, § 112.11	Requirements for: (1) onshore production facilities, oil drilling and workover facilities; and (2) offshore oil drilling, production, or workover facilities.	N/A
Subpart C. Requirements for Animal Fats and Oils and Greases, and Fish and Marine Mammal Oils; and for Vegetable Oils, including Oils from Seeds, Nuts, Fruits, and Kernels: 40 CFR 112.12 – 15		
§ 112.12, § 112.13, § 112.14, § 112.15	All portions	N/A

CERTIFICATION

This Plan was developed pursuant to provisions of the federal regulation for oil pollution prevention, 40 CFR Part 112. Its purpose is to provide spill prevention and response measures to prevent the pollution of navigable waters from oil related spills.

In accordance with 40 CFR Part 112.3 (d), this Plan has been reviewed and certified by a Registered Professional Engineer (PE). By means of this certification, the engineer, having examined the facility or having an agent examine the facility, and being familiar with the provisions of this regulation, attests that the Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards, and with the requirements of Part 112. Procedures for required inspections and testing have been established and this Plan is adequate for the facility.

Certified by: _____ **Date:** 6/26/2024

Terrill Lemke
Registered Professional Engineer
New Mexico License No. 15563

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MANAGEMENT APPROVAL

This Plan has the full approval of management at a level with authority to commit the necessary resources. The owner/operator will fully implement this Plan in accordance with the requirements of 40 CFR Part 112.

Open Space Approval:

Approved by: M Witt Digitally signed by Monica R Witt Date: 2024.09.19 09:16:17 -06'00' **Date:** 9/19/24

Monica Witt
Utilities & Infrastructure (UI-DO)
Facility Operations Director
Los Alamos National Laboratory

Facility Owner Approval:

Approved by: GEORGE RANDELL (Affiliate) Digitally signed by GEORGE RANDELL (Affiliate) Date: 2024.09.19 08:48:27 -06'00' **Date:** 9/19/24

George Randell
Logistics Division Office
Division Leader
Los Alamos National Laboratory

Facility Operator Approval:

Approved by: LARRY VELASQUEZ (Affiliate) Digitally signed by LARRY VELASQUEZ (Affiliate) Date: 2024.09.19 12:06:15 -06'00' **Date:** 9/19/24

Larry Velasquez
Logistics Heavy Equipment Roads & Grounds (LOG-HERG)
Group Leader
Los Alamos National Laboratory

REVISION HISTORY

Document Number and Revision *[Include revision number, beginning with Revision 0]*	**Effective Date** *[Document Control Coordinator inserts effective date]*	**Professional Engineer Certification Required**	**Description of Changes** *[List specific changes made since the previous revision]*
SPCC – TA-60 Asphalt Batch Plant, Rev. 0	October 2006	Yes (see file)	Initial Issue
SPCC – TA-60 Asphalt Batch Plant, Rev. 1	February 2009	Yes (see file)	Plan Renewal
SPCC – TA-60 Asphalt Batch Plant, Rev. 2	January 2015	Yes (see file)	Plan Renewal
SPCC-PLAN-60-01, Rev 0	August 2020	Yes (see Appendix B)	Document reformat/numbering, 5-year Review/Update, 40 CFR 112.5 Plan Amendment
SPCC-PLAN-60-01, Rev 1	February 2024	Yes (see Appendix B)	Replacement new Asphalt Plant, to include Asphalt Cement/Bitumen holding tank (increase in oil capacity)

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1.0 INTRODUCTION

This Spill Prevention Control and Countermeasure (SPCC) Plan is a requirement of the Environmental Protection Agency (EPA) Oil Pollution Prevention Regulation in accordance with Title 40 of the Code of Federal Regulation Part 112 (40 CFR 112). This Plan has been revised to comply with requirements of the regulations published in August 2002 and all Amendments. 40 CFR 112.1(d)(2)(ii) requires that facilities that have an aggregate aboveground storage capacity of 1,320 gallons or greater of oil, including all containers 55 gallons or greater, maintain and implement a SPCC Plan. The intent of the SPCC Plan is to prevent oil related spills from polluting natural resources belonging to the United States (U.S.) through the implementation of adequate prevention and response measures. Regarding Los Alamos National Laboratory (LANL or Laboratory), natural resources include drainages to and/or navigable waters of the State of New Mexico (NM) and/or U.S. which include all canyons, arroyos, streams, and rivers within and surrounding LANL Technical Areas (TAs).

Due to LANL's diverse activities and changing conditions, a single Plan incorporating all LANL facilities subject to SPCC requirements is impractical. SPCC locations are addressed according to specific Facility boundaries within LANL as determined by management and funding organization. The LANL Environmental Protection and Compliance Division's Compliance Programs Group (EPC-CP) develop SPCC Plans for facilities needing to meet 40 CFR 112 requirements. The Facility Operations Director (FOD) or he facility tenant with approval from EPC-CP implements and maintains SPCC Plans for the specific SPCC location(s) within their stewardship.

This SPCC Plan addresses the storage of oil and oil emulsion in tanks located at TA-60 Asphalt Plant (referred to as the Facility), located within the LANL boundary at the east end of Sigma Mesa. The facility's oil storage capacity has changed to a replace the previous 15,000-gallon asphalt cement tank with a new 35,000 gallon asphalt cement tank.

1.1 Conformance

This SPCC Plan and facility conform to the requirements of 40 CFR Part 112 to the fullest extent possible. The facility has appropriate spill prevention, reporting, and response measures, secondary containment is appropriate for the materials stored, and there is adequate security. Procedures for inspections, testing, loading and unloading, record keeping, spill response, and training have been developed. Work at this facility is performed using LANL's five step Integrated Safety Management approach, which evaluates a task and identifies potential hazards such as a spill event to achieve effective spill response training for employees. Deviations from regulatory requirements include:

- Integrity testing of the 35,000-gallon tank holding asphalt cement is not being completed in lieu of applications of inspection criteria outlined in STI SP-001-06 (Section 6, Inspections).
- The capacity of the secondary containment below the 35,000-gallon asphalt cement tank will not hold the entire contents of the tank. Asphalt cement is highly viscous and solidifies when its temperature decreases therefore spills would be noticed during daily inspection

and could be addressed immediately. Diversionary measures, detention pond and on-site drainage improvements are in place and are maintained by on site equipment to manage any release which is not contained by the secondary containment (see Section 2.3.1). In addition, this facility is covered by an Oil Spill Contingency Plan (see Section 5.3).

Activities completed and being maintained at the facility to ensure compliance with regulatory requirements include:

- Site grading improvements to ensure all site drainage would be directed to the SWPPP berm and on-site detention pond prior to leaving this facility's operational area on the mesa top. As-built records depicting these site conditions are included in this plan.

In addition to Federal regulations, this Plan complies with the New Mexico Environment Department (NMED) regulations under New Mexico Administrative Code (NMAC) Part 20.6.2 for Ground and Surface Water Protection. State water quality standards are considered when determining procedures for secondary containment drainage. This facility has no tanks that fall under the NMED Petroleum Storage Tank Bureau (PSTB) Regulations (NMAC 20.5.101.7 R (b), definition of regulated substance).

The Certification of the Applicability of Substantial Harm Criteria is included in Appendix A. A self-selection process outlined in Section 112.3 of 40 CFR 112 was applied and it was determined that the facility does not fall under the "substantial harm" category. Therefore, the facility is not required to prepare and submit a Facility Response Plan.

1.2 Scope

The Logistics (LOG) Division, under operational oversight of the Utilities & Infrastructure (UI) FOD, is accountable for SPCC requirements applicable to this and has responsibility for implementing, enforcing, and maintaining the SPCC Plan requirements. The complete SPCC Plan with original signatures of the Division Leader is located in TA-60 Asphalt Plant. Due to the location of this facility within UI FOD open space footprint, the UI FOD provides support to the LOG Division through funding a Deployed Environmental Professional to comply with SPCC administrative recordkeeping and reporting requirements.

Table 1. SPCC Responsibilities

Topic Area	*Specific Item*	*Responsible Entity*		
		EPC-CP-Tank Program	*Deployed Environmental Professional*	*LOG-DO*
General	*Prepare SPCC Plan to meet regulatory requirements*	*X*		
	Approve SPCC Plan	*X*		*X*
	Implement SPCC Plan			*X*

Table 1. SPCC Responsibilities

Topic Area	*Specific Item*	*Responsible Entity*		
		EPC-CP-Tank Program	*Deployed Environmental Professional*	*LOG-DO*
	Approve physical changes needed to implement SPCC Plan	*X*		*X*
	Provide oversight	*X*	*X*	
	Spill cleanup and disposal, provide spill information to EPC-CP Spill Team, update spill log in Plan		*X*	*X*
	Spill reporting to state and federal regulators	*X*		
Inspections	*Provide qualified personnel to perform and write scheduled SPCC walk around inspections*		*X*	*X*
	Ensure annual physical inspections of tanks are performed.	*X*	*X*	
	Provide qualified personnel to perform and write annual SPCC inspections	*X*		
	Implement corrective actions noted in inspections		*X*	*X*
Recordkeeping	*Maintain inspections in onsite SPCC*		*X*	*X*
	Maintain onsite training records for periodic briefings or Lessons Learned		*X*	*X*
	Update spill tracking form		*X*	*X*
	Track discharges/spills (planned and unplanned)	*X*		*X*
	Review SPCC every five years	*X*		*X*
Training	*Provide annual training that meets SPCC regulatory requirements*	*X*	*X*	
	Provide site-specific SPCC Training (Facility Owner/Operator)	*X*	*X*	
	Ensure all oil handling personnel and designated persons accountable for discharge prevention attend annual training	*X*	*X*	*X*
Plan Amendment	*Provide information on changes to design, construction, operation or maintenance*		*X*	*X*
	Amend Plan when spill or other change in facility occurs	*X*	*X*	*X*
	Approve physical changes needed and plan amendments to SPCC, if engineer certification is required	*X*		*X*

Table 1. SPCC Responsibilities

Topic Area	*Specific Item*	*Responsible Entity*		
		EPC-CP-Tank Program	*Deployed Environmental Professional*	*LOG-DO*
	Implement changes to plan within 6 months of change to facility			*X*

1.3 Plan Amendment

This SPCC Plan will be amended whenever there is a change in facility design, construction, operation, or maintenance that materially affects the facility's potential for discharge of oil into or upon the navigable waters of the United States or adjoining shorelines. The Plan will also be amended as necessary if a spill causes a change in design, construction, operation, or maintenance. Such amendments shall be fully implemented as soon as possible, but not later than six months after such change occurs. Amendments to the Plan will be recorded in the Amendment Log, Appendix B.

In addition, in accordance with 40 CFR 112.5(b), a complete review and evaluation of this SPCC Plan will be conducted at least once every five years by the operating group(s) and/or Facility Operations Director, and by EPC-CP. As a result of this review and evaluation, the SPCC Plan will be amended within six months of the review to include more effective spill prevention and control technology, if such technology will significantly reduce the likelihood of a spill event from the facility, and if such technology has been field proven at the time of review.

Changes to the contact lists and the addition of records to the Plan do not require certification by a Professional Engineer. The two items identified as underway in Section 1.1 Conformance do not require certification by a Professional Engineer. All amendments that address technical changes that may change the facility's ability to discharge oil will be certified by a Professional Engineer.

2.0 FACILITY INFORMATION

2.1 Name, Address, Owner, Contacts

The TA-60 Asphalt Plant storage tanks and associated equipment is owned and operated by the LANL Logistics Division within UI FOD operational area. Contacts for the facility are:

Facility Operator
LOG-DO Division
Heavy Equipment/Roads & Grounds (LOG-HERG) Group
Triad National Security LLC (Triad)
Los Alamos National Laboratory

Los Alamos, NM 87545

Contacts

Name	Phone	Title
George Randell	606-2246	LOG-DO Division Leader
Monica Witt	667-4222	UI-DO Facility Operation Director
Larry Velasquez	665-2644	LOG-HERG Group Leader
Vacant		LOG-HERG Asphalt Plant Superintendent
Andrew Brenner	231-5208	UI Operations Manager
Dave Forster	469-8608	EPC-CP Deployed Team Lead
Leonard F. Sandoval	667-3557	EPC-CP Deployed Environmental Professional (DEP)
Aaron Dailey	695-8101	EPC-CP SPCC/AST Program Lead
Eduardo Lopez	695-8963	EPC-CP

2.2 Site Assessment/Location

The Facility sits on the east end of Sigma Mesa fully within the Laboratory boundary and within the Mortandad watershed. Drainage from the facility flows south/east for approximately 500 feet prior to leaving the mesa top and entering Mortandad Canyon via a National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) discharge location via surface flow. The primary Mortandad Canyon drainage is located approximately 500 feet from the NPDES MSGP discharge location. The primary Mortandad Canyon drainage eventually drains into the Rio Grande.

2.3 Description

The TA-60 Asphalt Batch Plant was constructed in 2005 to replace the outdated plant previously located at TA-3. This plant and its components were decommissioned in 2022 and all equipment was salvaged off site. In 2023, a new counter flow drum mix asphalt plant was installed to replace the existing asphalt batch plant. The 2023 counter flow drum hot mix asphalt plant is equipped with modern engineering and administrative controls to include a computerized Distributive Control System operated by certified plant operators. Appendix C provides site maps of the facility and photographs of the storage tanks.

2.3.1 Tanks

SPCC applicable tanks include the 35,000-gallon asphalt cement tank and the heating oil tank system, which is considered oil-filled equipment due to a combination of two tanks and associated heating coils and hoses, which contains a total of 500 gallons. These tanks and associated piping/valves are constructed of materials compatible with what they hold and sit on the same skid within secondary containment, capable of containing 2,800 gallons of oil.

Approximately 20-feet of piping downstream of the operational valve and upstream of the facility which contains asphalt cement is located outside of the secondary containment and is operated by positive pressure valve that closes when air is not being applied. The tanks, transfer piping and the associated valves are aboveground and therefore can be inspected whenever needed.

Spills would be captured by the concrete secondary containment or, worst case, along the base of the base course berm along the South side of the site. Any spills from the +/- 20-foot of piping would be identified immediately during periods when a valve is open and plant operations are on-going. There are no buried or partially buried tanks. The entire secondary containment consists of: 1) the concrete bermed area with a capacity of 2,800 gallons, curbed such that it prevents storm water run-on, and 2) the modified SWPPP compacted earthen berm and detention pond that contains greater than 69,700 gallons, which is 199% of the volume of the largest oil-filled tank.

The 35,000-gallon tank was shop built in 2022 by Asphalt Drum Mixers (ADM), inc., of Huntertown, Indiana. The manufacturer did a visual inspection of the seam welds before the tank was shipped to LANL. Per STI-SP-001-06, integrity testing is not required because the exterior of this bulk storage tank is inspected daily as part of a Daily Walk Around Inspection (see inspection checklist in Appendix D) and contains a highly viscous emulsion (asphalt cement) which provides immediate visible evidence of leaking and becomes a semi-solid when exposed to a decrease in temperature.

Asphalt oil in the 35,000-gallon asphalt cement tank is measured using a float gauge. The float gauge is checked for operability during asphalt cement transfers. The tank is mounted to a skid located within concrete secondary containment. All overflows would be contained within the secondary containment.

If a significant spill occurs and overflows the containment berm, there should be little to no soil penetration (the surface of the site is covered with base course/gravel). In addition, a diversionary structure exists, a detention pond, is located downstream of the tank and immediately upstream of the NPDES MSGP discharge location. Drainage improvements have been completed recently to ensure all surface drainage in the facility is directed to this detention pond. The combination of secondary containment, diversionary structures, downstream distance to the Mortandad Canyon primary drainage, and characteristics of asphalt cement is sufficient to ensure that any discharge from the facility will be contained prior to it reaching the Mortandad Canyon primary drainage. A Facility Diagram showing the location of the tanks, topography, drainage, and the detention pond is provided in Appendix C.

Structures at the facility that contain hot mix are exempt from the SPCC regulations (Federal Register/vol. 73, No. 235, 12/5/2008, page 74240). The 35,000-gallon tank contains asphalt cement and is therefore not included in this exemption.

Photo 1 looking East: Silver tank is the 35k gallon asphalt cement tank regulated under 40 CFR 112 SPCC. Tan tank in the background is the asphalt mix loading silo, not regulated under SPCC.

Photo 2 looking South: Red plastic circle is the tank level indicator on the measuring stick, operated by internal tank float.

Photo 3 looking North: 35k gallon asphalt cement tank with concrete lipped containment below, will contain 2,800 gallons.

Photo 4 looking south: 500-gallon heating oil system - main and auxiliary tank.

Photo 5 looking East: Compacted, engineered slope graded into containment berm and detention basin shown on photo right. Note the bermed area extends around to where this photo was taken.

Photo 6: Petro Pipe installed at asphalt cement tank containment to provide a means for drainage of precipitation but will capture any oil, sheen, or contaminant from leaving this containment area; a best management practice for the facility.

2.3.2 Oil Transfer Equipment/Operations

Oil is delivered to the two tanks by an off-site vendor, and the oil is pumped directly into the tanks. The re-fill ports are located on the tanks within the secondary containment. AST filling procedures are done per plant operating manual instructions and will be used during each filling operation. The lead operator for the batch plant (the Principal Operator) will ensure that these procedures are used and that any small spills that occur within the secondary containment will be cleaned up immediately. Emergency Operations Support Center (EOSC) (667-2400) shall be notified in the event of a spill. A record of oil refill volumes is maintained in the Principal Operator's trailer located at the facility.

2.3.3 Secondary Containment Drainage Options

A description of the secondary containment unit for the two tanks is provided in Section 2.3.1. Storm water run-on into the containment is minimized at the perimeter of the pad and is diverted away from this feature through site grading and surface elevation. Storm water accumulation that does occur within the secondary containment unit is usually small and is allowed to evaporate. However, if it is necessary to drain the secondary containment to ensure sufficient storage capacity a valve exists in the northeast corner of the secondary containment. This valve must be maintained in a closed position unless the containment is being drained of standing water. If storm water will be drained, follow the process delineated in the following paragraph.

Prior to any discharge, storm water accumulations must meet Federal and State water quality standards. To ensure compliance with these standards, the following steps will be used for secondary containment unit discharge operations:

- Visually inspect accumulation to ensure that the water does not possess oil sheen, odor, or other visible constituents that could result in a harmful discharge.
- Take a pH reading.
  - Note: The pH reading must be between 6 and 9.
- Notify facility DEP prior to a discharge.
- For any discharge, notify EPC-CP to obtain authorization for release and to determine the need for testing of contaminates other than pH.
- After authorization is received, open the valve, and allow the containment to drain via gravity.
- This is a manned process and at no time should the drain valve be left unmanned while the drain valve is in the open position.
- Close drain valve when storm water has drained, or if the drain valve will be left unmanned while in the unopened position.
- Complete the Liquid Discharge Form (Appendix F) with the help of the DEP. The DEP will submit a copy to EPC-CP Liquid Discharge Form contact and retain a copy with the SPCC Plan.

3.0 SPILL HISTORY

Since the facility began operating in 2005 there have been three spills, as listed in Table 2. In March 2007, 165 gallons of asphalt cement leaked from part of a weld on the 15,000-gallon asphalt cement tank. The asphalt cement dripped into and was fully contained in the secondary containment located below the 15,000-gallon tank. The cement asphalt slag was cleaned up and properly disposed. The weld was repaired. The second spill, 5 gallons of asphalt cement, occurred immediately after the first one. This material was collected and properly disposed. The most recent spill occurred on April 28, 2020, with 5,700 gallons of asphalt cement being released from the hopper. The asphalt cement was set to mix and heat up overnight. A recently installed three-way valve was misaligned. As a result of the misalignment, during heating of the asphalt cement it

flowed into the hopper under pressure from the recirculation pumps. The hot asphalt cement then leaked from the hoppers onto the ground and flowed east into Mortandad Canyon.

Note that all releases mentioned above were from the old asphalt batch plant. This SPCC plan covers a new asphalt plant with all new equipment. No pre-existing equipment, valves or piping associated with previous spills exists at this facility.

In addition, a RCRA Solid Waste Management Unit (SWMU) is located within the facility boundary. SWMU 60-002 has been identified and investigated as part of the LANL-wide monitoring program for SWMUs. It is considered to have a low potential to impact the quality of storm water flows or discharges from the facility boundary because a base-course berm and a storm water conveyance ditch located between the TA-60 ABP's east boundary and the boundary of this SWMU minimizes the potential for any run-on/runoff on or off the SWMU.

Table 2. Spill History

Location Description (Date)	Type and Amount	Cause/Description of Damage	Watercourse Affected	Action Taken to Prevent Recurrence
15,000-gallon tank (3/26/07)	165-gallon asphalt cement	Tank Seam Malfunction/None	None	Cleaned up; Repaired tank 4/2007
Staging Area North of Asphalt Plant (3/27/07)	5-gallon asphalt cement from 3/26/07	Improper disposal of Asphalt cement slag from 3/26/07 Spill/None	None	Put into 55-gallon barrel and disposed of as NM Special Waste
Release from hopper (4/28/20)	5,700-gallon asphalt cement	Valve misalignment/Release of material outside secondary containment which solidified	Mortandad Canyon	Material clean-up/recover completed in 2021; Valve replacement; Site grading improvements

4.0 POTENTIAL SPILL VOLUMES AND RATES

The following sections provide information on the potential for spill events at the facility while Section 5 provides information on the established procedures to be implemented in the event of a spill. The Operating Group Line Management is the person accountable for discharge prevention and reporting to facility management.

4.1 Potential Event, Volume Release, Rate of Release

Table 3. Potential for Spills at TA-60 Asphalt plant			
Location	**Volume Release (gallons)**	**Type of failure (discharge scenario)**	**Secondary containment/method/capacity and response measures**
Heating Coil Tank	500 gallons	Catastrophic	Secondary containment provided more than 100% capacity of tank.
Spill outside of containment area	Up to 500 gallons	Spill	Plant operators have personnel present which would minimize quantity of release. Spill control kits are on-site and adequately stocked. Diversionary structures exist downstream prior to watercourse.
Asphalt Cement Tank	35,000 gallons	Catastrophic	Secondary containment combined with berm tied into detention pond, and asphalt concrete property resulting in solidification as it cools.

4.2 Potential Spill Discharge Flow and Nearest Watercourse

Table 4. Potential Spill Discharge Flow and Nearest Watercourse		
Potential Event	**How/Where Spill Could Flow**	**Nearest Watercourse**
All	Secondary containment followed by sheet flow southeast into the detention pond prior to discharge through the NPDES MSGP discharge location located approximately 500-feet downstream of the tanks.	Mortandad Canyon main drainage via surface drainage pathway of approximately 500 feet from the NPDES MSGP discharge location.

5.0 SPILL PREVENTION AND CONTROL

5.1 Spill Prevention Features and Practices

Work at this facility is performed using LANL's five step Integrated Safety Management approach, which evaluates a task and identifies potential hazards such as a spill event to achieve effective spill response training for employees. Personnel involved with facility operations are instructed on safety precautions, initial spill response procedures, and how to use available spill cleanup material. The Deployed Environmental Professional (DEP) for the facility will provide support for spill prevention, reporting and maintenance of the spill control equipment at the Facility. EPC-CP is responsible for providing available training programs. In addition to annual training, periodic spill prevention briefings may be conducted by EPC-CP as necessary to inform operating personnel about spill events

or failures, malfunctioning components, recently developed precautionary measures, or other SPCC-related issues.

Spill Control Equipment: A spill kit that contains adequate universal sorbent or spill control pillows, goggles, gloves, bags, ties, scoop and labels and shovels to handle minor spills and remove any oil or sheen from storm water collected in the secondary containment or sedimentation pond is located within the Principal Facility Operator's trailer at the facility (see Site Map, Appendix C). Spill control material storage areas shall be inventoried to assure that the proper materials are available in sufficient quantity and of sufficient quality to minimize the spread of oil products in the case of a spill prior to the arrival of response teams.

Spill Reporting: Spill reporting is accomplished through EPC-CP procedures. EPC-CP will complete required state, and federal reporting, including federal reporting of spills more than 1,000 gallons or two combined spills greater than 42 gallons in 12 months in accordance with Laboratory and DOE policies and federal and state regulatory reporting requirements per P322-3, *Performance Improvement from Abnormal Events*.

https://int.lanl.gov/policy/documents/P322-3.pdf.

Table 5. Definition of authorities, responsibilities, and duties of all entities involved in oil removal operations

Authorities	Spill Reporting Responsibilities	Response Duties
Onsite workers	Contact EMD-ER at 667-2400 (non-emergencies) or 911 (emergencies), if necessary. Small incidental releases (spills less than 1 gallon) and spills into secondary containment will be addressed as good housekeeping. All other spills will be reported to the Principal Facility Operator who will notify the Facility Manager, who then notifies the Utilities Operations Manager. The Operations Manager is responsible for notifying LANL EMD-ER, LOG-DO, and the UI FOD. If neither manager is available, the principal operator will notify EMD-ER directly. The principal operator will address, if no health hazards exist, the cause of the spill and contain as much of	Qualified workers may, but are not required to, clean up simple/small spills but are required to contact the facility DEP.

Table 5. Definition of authorities, responsibilities, and duties of all entities involved in oil removal operations

Authorities	Spill Reporting Responsibilities	Response Duties
	The spill as possible until the EMD-ER team arrives. Notify DEP. If spill occurs after hours or on a weekend, please call the Spill Pager (664-7722) and EPC-CP on-call staff will respond.	
Plant Operators	Notify DEP	Qualified workers may clean up simple/small spills and manage waste per LANL procedures above.
EMD-ER	If EMD-ER is notified of a spill event, they will contact all additional applicable parties including EPC-CP	Respond per contingency plan
DEP	Complete appropriate forms, notify EPC-CP, and document spill in SPCC Plan in accordance with Section 7.0	For small spills, contact the appropriate Waste Generator and Waste Management Coordinator for disposal.
EPC-CP Water Quality	Completion of spill reports that are reportable to federal and state agencies. Provide oversight for spill mitigation activities.	Provide information to federal and state agencies.

5.2 Oil Spill Contingency Plan

All spills require response. Any spills that have the potential to enter a drain or water course, require immediate response and must be reported immediately to LANL EMD-ER office and EPC-CP.

Small incidental releases (e.g., vehicle oil, grease, fuel drip spots) and spills into the secondary containment will be addressed as part of good housekeeping and be cleaned up and properly disposed as soon as practicable and not to exceed CA timing in MSGP (usually on the day the spill was discovered). The cleanup will be conducted by properly trained personnel. It is the responsibility of the UI FOD to provide access to an appropriate Waste Generator and Waste Management Coordinator who is properly trained to dispose of spill materials.

All other spills (i.e. greater than one gallon) will be managed in accordance with Table 5.

The EMD-ER will determine to what level LANL's EMD-ER plan will be activated. In addition, appropriate cleanup procedures will be followed and the appropriate individuals or organizations responsible for the completion of appropriate spill reports will be notified.

Table 6. Spill Contact Information
If fire or explosion is present, or if the potential for such exists, the situation must be reported by dialing 911 or activating a fire pull box if available at the facility.

LANL 24- hr. Emergency Operations Support Center (EOSC) Number: 667-2400.

Name	Title	Work	Pager	Cell
George Randell	Division Leader, LOG-DO	606-2246		500-7039
Monica Witt	FOD, UI-DO	667-4222		795-2884
Dave Forster	EPC-CP DEP Team Lead	469-8608		
Larry Velasquez	LOG-HERG Facility Manager	665-2644		695-6949
Vacant	LOG-HERG Principal Facility Operator			
EMD-ER	24-hour emergency contact	667-2400		
Leonard Sandoval	DEP	667-3557		231-1235
Spill Pager			664-7722	
Steve Pearson	EPC-CP Water Quality Spills Program Lead	667-3005		669-3684
Chris Mew	EPC-CP Water Quality spill response			699-7390

5.3 Security

TA-60 at Sigma Mesa is presently an access-controlled area. The east end of Sigma Mesa is fenced and has a gate, which is locked when the facility is unattended after 5 PM weekdays and on weekends.

6.0 INSPECTIONS

Inspections include daily walk-around, monthly inspections, annual SPCC walk around inspections, and certified inspections. Procedures for each are detailed below. Records of each are kept in accordance with Section 7.0, Record Keeping. In the event of a problem, the deficiency is documented on the applicable inspection form and corrective action will be taken. Any identified spills or problems associated with the system will be promptly corrected, and any oil accumulations will be removed.

Table 7. Inspection Summary

Type	Frequency	Inspector
Periodic Inspections	Daily/Monthly	Operator (Daily)

		DEP (Monthly)
Annual SPCC	Annual	EPC-CP
Certified	Not Applicable	N/A
Brittle Failure	Not applicable	N/A

Various inspections are conducted at the units. These inspections include a daily inspection (checklist 41-20-001.1 R0) performed by the principal operator, monthly walk-around inspection by the DEP and an annual EPC-CP SPCC inspection. Records of each inspection are kept as described in Section 7.0 (Record Keeping) or in another appropriate folder or box. Completed Inspection Reports are filed as part of this SPCC Plan in Appendix D. Daily inspection checklists are kept in a separate binder. A sample of the daily inspection checklist, 41-20-001.1 R0, is included in Appendix D. All this information is kept in the Principal Operator's trailer located at the facility.

If a problem or concern is identified during an inspection or checklist walk-around, the inspector documents the deficiency or concern on the applicable form. All corrective actions should be planned, implemented, and documented. The LOG-DO Division Leader or his representative would be directly involved with implementing these corrective actions. A record of the Corrective Actions will be kept in Appendix D. All identified spills or problems associated with the units will be promptly corrected, and any oil accumulations will be removed. Records of these types of problems will be kept on file as part of the SPCC plan according to Section 3.0 (Spill History and recorded in the spill log in Appendix E). Section 1.1

7.0 RECORDKEEPING

Table 8. Record Location within SPCC Plan	
Record Type	**Location in SPCC Plan**
Certification of the Applicability of the Substantial Harm Criteria	Appendix A
Amendment Log	Appendix B
Inspections (Daily, Monthly, Annual, and State)	Appendix D
Corrective Actions Records	Appendix D
Spill Reports/Spill Tracking Form	Appendix E
Storm Water Discharge	Appendix F
Training Records	Appendix G

These inspection reports identify the date the inspection was performed, facility structural conditions, identified deficiencies; and contain the signature of the inspector.

In the event of a spill, the spill tracking form in Appendix E will be used to describe the spill, corrective action taken, and plans for preventing recurrence. Filled out forms are also maintained in Appendix E. Any discharge of storm water from any of the secondary containment units will be identified through completion of the form in Appendix F. A copy of the completed form will be sent to EPC-CP and maintained in Appendix F.

As required by 40 CFR 112.3(e), the SPCC Plan is to be maintained at the facility since the facility is manned at least 4 hours a day. Additionally, inspection procedures, signed inspections, drainage records, and spill reports will be retained as part of this SPCC Plan at the facility for a minimum period of three years. Following completion of the three-year period, the records will be forwarded to the EPC-CP Records Management Team to be retained in accordance with Department of Energy requirements.

8.0 OPERATIONS INSPECTIONS

Daily Inspection (Good Housekeeping) Walk-Around Checklist: Asphalt Plant staff conducts a general operator observation daily when the plant is in operation. During normal operations, casual checks of the unit and facility grounds are performed. During these checks, potential problems and maintenance needs for the entire facility are identified, including spills, obvious problems with tanks, lines or the containment, and general safety conditions at the facility. The tanks should be visually inspected for spills and general condition as a best management practice for the safe operation of the facility. These daily walk arounds are done in accordance with the asphalt plant operations and maintenance manual provided by the plant manufacturer, which is a complete system operated by a computer system that monitors and controls all equipment continuously as part of this complete system.

The completed daily walk around checklists are retained in a separate binder at the asphalt plant control room.

Monthly Visual Inspection: A monthly walk-around inspection of the facility will be performed by a DEP and a facility representative. The inspection form and inspection reports are filed in Appendix D. The inspection form identifies the inspector, inspection date, and identifies facility areas inspected. As part of these inspections, the tanks are visually inspected for spills and for physical condition, including but not limited to rust, corrosion, or bulging. The secondary containment area(s) are inspected to determine if any spills have occurred, to ensure that the containment is free of storm water, to ensure that there are no physical defects in the containment that could cause it to fail, and to ensure that the containment drain valve is in good condition and locked. Spills or potential problems will be brought to the attention of the Principal Operator and steps to address these problems through corrective action will be discussed. The inspector will sign the inspection form and place it in Appendix D in a timely manner. The monthly inspection form will be modified if changes in the SPCC regulations are not reflected in the current version.

Annual Inspections: EPC-CP staff performs annual SPCC inspections to access compliance with all aspects of the SPCC Plan including but not limited to recordkeeping, changes to the facility, the condition of the tank, piping and associated equipment, and the secondary containment unit. This inspection also covers all requirements of the SPCC regulations. An inspection report is sent to the appropriate facility FOD, LOG-DO and representatives in a timely manner. Completed annual inspection reports are maintained in Appendix D.

Integrity, Brittle Failure and Catastrophic Inspections: Integrity testing of the 35,000-gallon tank holding asphalt cement is not being done based on the inspection criteria outlined in STI SP-001-06 which allows visual inspection for bulk shop-made storage tanks. If this tank undergoes major repair, alteration, reconstruction, or a change in service that might affect the risk of a discharge or failure due to brittle fracture or other catastrophe, the container will be evaluated for risk of discharge or failure due to brittle fracture or other catastrophe, and appropriate action will be taken.

9.0 TRAINING

40 CFR Part 112.7 (f) (1) states, “Train your oil-handling personnel in the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules, and regulations; general facility operations; and the contents of the facility SPCC Plan.”

Oil handling personnel and personnel that will have SPCC training at this facility include the:

- DEPs,
- Principal, additional Operators
- Personnel who conduct re-filling operations.

Required trainings include:

- An online training program (Course: #30441) has been developed that covers spill procedure protocols; applicable pollution control laws, rules, and regulations; and lessons learned - information on known spill events or failures, SPCC Plan elements, and spill response procedures. This self-study course is required at least once yearly for oil-handling personnel at this facility.
- Oil-handling personnel at this facility shall review this SPCC Plan annually, and documentation of the training maintained in Appendix G of this SPCC Plan. Additional spill prevention briefings and information on known spill events or failures, malfunctioning equipment, and recently developed precautionary measures is provided to oil handling personnel through a request to EPC-CP or through periodic facility briefings on small spills.
- Site specific training is completed by required reading of this SPCC Plan and is documented in Appendix G

In addition to the above training, spill response personnel at LANL receive HAZWOPER training that covers spill prevention, control, and cleanup procedures.

The LOG-DO Division Leader or their representative(s) is responsible for ensuring that oil-handling personnel are properly instructed in the operation and maintenance of equipment at this facility to prevent the discharge of oil. Employee training programs must provide in oil-handling personnel, at all levels of responsibility, a complete understanding of the following:

- Contents of facility SPCC Plan
- General facility operations and maintenance of equipment
- The SPCC program
- Procedures for operator observation inspections
- Site safety hazards
- Practices for preventing spills
- Procedures for responding properly and rapidly to spills
- Protocol used to report spills
- Spill events or failures, malfunctioning components, and recently developed precautionary measures
- Additional applicable pollution control laws, rules, and regulations

Prior to the initiation of work, oil-handling personnel also receive LANL HAZCOM training which covers spill prevention, control, and cleanup methods. Additional spill prevention briefings and information on known spill events or failures, malfunctioning equipment, and recently developed precautionary measures is provided to oil handling personnel through the Operating Experience OPEX/Lessons Learned Program, including PD323, LANL Operating Experience Program and P323-1, Operating Experience and Lessons Learned Process (http://int.lanl.gov/org/ddops/aldeshqss/quality-performance-assurance/performance-assurance/opex.shtml), or through periodic facility briefings on small spills. Lessons learned for oil spills will follow the normal lessons learned process for UI.

10.0 DEFINITIONS AND ACRONYMS

10.1 Definitions

See LANL *Definition of Terms*.

"Active" Secondary Containment: Secondary containment features that require deployment or other specific action by the owner/operator (e.g., portable barrier, spill kit, spill response team, a valve that must be closed).

Oil: *Oil* of any kind or in any form, including, but not limited to: fats, oils, or greases of animal, fish, or marine mammal origin; vegetable oils, including oils from seeds, nuts, fruits, or kernels; and, other oils and greases, including petroleum, fuel oil, sludge, synthetic oils, mineral oils, oil refuse, or oil mixed with wastes other than dredged spoil.

Oil-Filled Operational Equipment: Equipment that includes an oil storage container (or multiple containers) in which the oil is present solely to support the function of the apparatus or the device. Oil-filled operational equipment is not considered a bulk storage container and does not include oil-filled manufacturing equipment (flow-through process). Examples of oil-filled operational equipment include, but are not limited to, hydraulic systems, lubricating systems (*e.g.*, those for pumps, compressors, and other rotating equipment, including pump jack lubrication systems), gear boxes, machining coolant systems, heat transfer systems, transformers, circuit breakers, electrical switches, and other systems containing oil solely to enable the operation of the device.

"Passive" Secondary Containment: Permanent installations that do not require deployment or action or the owner/operator (e.g., vault, containment structure, dike, petro-plug)

Spill Prevention, Control, and Countermeasure Plan: The document required by 40 CFR 112.3 that details the equipment, workforce, procedures, and steps to prevent, control, and provide adequate countermeasures to a discharge.

Sufficiently Impervious: 40 CFR 112.7(c) states that the entire secondary containment system, "including walls and floor, must be capable of containing oil and must be constructed so that any discharge from a primary containment system will not escape containment before cleanup occurs."

10.2 Acronyms

See LANL Acronym Master List.

AST	Aboveground Storage Tank
CFR	Code of Federal Regulations
DEP	Deployed Environmental Professional
DOE	Department of Energy
EMD-ER	Emergency Management Division-Emergency Response
EM&R	Emergency Management & Response
EO-EM	Emergency Operations-Emergency Management
EOSC	Emergency Operations Support Center
EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance-Compliance Programs Group
FOD	Facility Operations Director
HAZCOM	Hazard Communications
HAZWOPER	Hazardous Waste Operations
LANL or the Laboratory	Los Alamos National Laboratory
LOG-DO	Logistics Operations
LOG-HERG	Logistics Operations-Heavy Equipment/Roads & Grounds Group
MSGP	Multi-Sector General Permit

NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NPDES	National Pollutant Discharge Elimination System
OPEX	Operating Experience
RCRA	Resource Conservation and Recovery Act
SPCC	Spill Prevention Control and Countermeasures
STI	Steel Tank Institute
SWMU	Solid Waste Management Unit
TA	Technical Area
UI	Utilities & Infrastructure

11.0 REFERENCES

- 40 CFR 112
- 20.5 NMAC

12.0 APPENDICES

Appendix A: Certification of the Applicability of the Substantial Harm Criteria
Appendix B: Amendment Log
Appendix C: Site Map, Asphalt Cement Tank Engineered Drawings
Appendix D: Inspection Forms, Inspection Records, and Corrective Action Records
Appendix E: Spill Tracking Log, Notifications, and Spill Reports
Appendix F: Storm Water Discharge Forms
Appendix G: Training Records
Appendix H: Petro Pipe Use Maintenance and Installation

Appendix A: Certification of the Applicability of the Substantial Harm Criteria

CERTIFICATION OF THE APPLICABILITY OF THE SUBSTANTIAL HARM CRITERIA

Facility Name: TA-60 Asphalt Plant

Facility Address: TA-60, LANL, Los Alamos, NM

Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

Yes _____ No **X**

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?

Yes _____ No **X**

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in accordance with EPA 40 CFR 112, App. C) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?

For further description of fish and wildlife and sensitive environments, see Appendices I, II, and III to DOC/NOAA's ''Guidance for Facility and Vessel Response Plans: Fish and Wildlife and Sensitive Environments'' and the applicable Area Contingency Plan.

Yes _____ No **X**

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in accordance with EPA 40 CFR 112, App. C) such that a discharge from the facility would shut down a public drinking water intake 2?

Yes _____ No **X**

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a re-portable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?

Yes _____ No **X**

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Larry Velasquez	LOG-HERG Group Leader
Name (please type or print)	Title
	9/19/24
Signature	Date

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Appendix B: Amendment Log

SPILL PREVENTION CONTROL AND COUNTERMEASURE

PLAN REVIEW PAGE

I have completed review and evaluation of the SPCC Plan and will or will not amend the plan as indicated below.

Review Dates	Signature	Name	Title	Amendment & Stamped (yes/no)
January 2009	(See File)	Mark Haagenstad	SPCC Coordinator, ENV-CP	Yes & Yes
March 2014	(See File)	Albert Dye	SPCC Coordinator, ENV-CP	Yes & No
January 2015	(See File)	Albert Dye	SPCC Coordinator, ENV-CP	Yes & Yes
June 2020	(See File)	William Joseph Foley	SPCC Coordinator, EPC-CP	Yes & Yes
March 2024	See File	Aaron Dailey	SPCC Coordinator, EPC-CP	Yes & Yes

In accordance with 40 CFR 112.5(b), a review and evaluation of this SPCC Plan is conducted at least once every five years. As a result of this review and evaluation, the SPCC Plan will be amended within six months of the review to include more effective prevention and control technology if: (1) such technology will significantly reduce the likelihood of a spill event from the facility, and (2) if such technology has been field proven at the time of review. Any amendment to the SPCC Plan shall be certified by a Professional Engineer within six months after a change in the facility design, construction, operation, or maintenance occurs which materially affects the facility's potential for the discharge of oil into or upon the navigable waters of the United States or adjoining shorelines. Non-technical amendments do not need to be certified by a Professional Engineer.

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Appendix C: Site Map, Asphalt Cement Tank Engineered Drawing

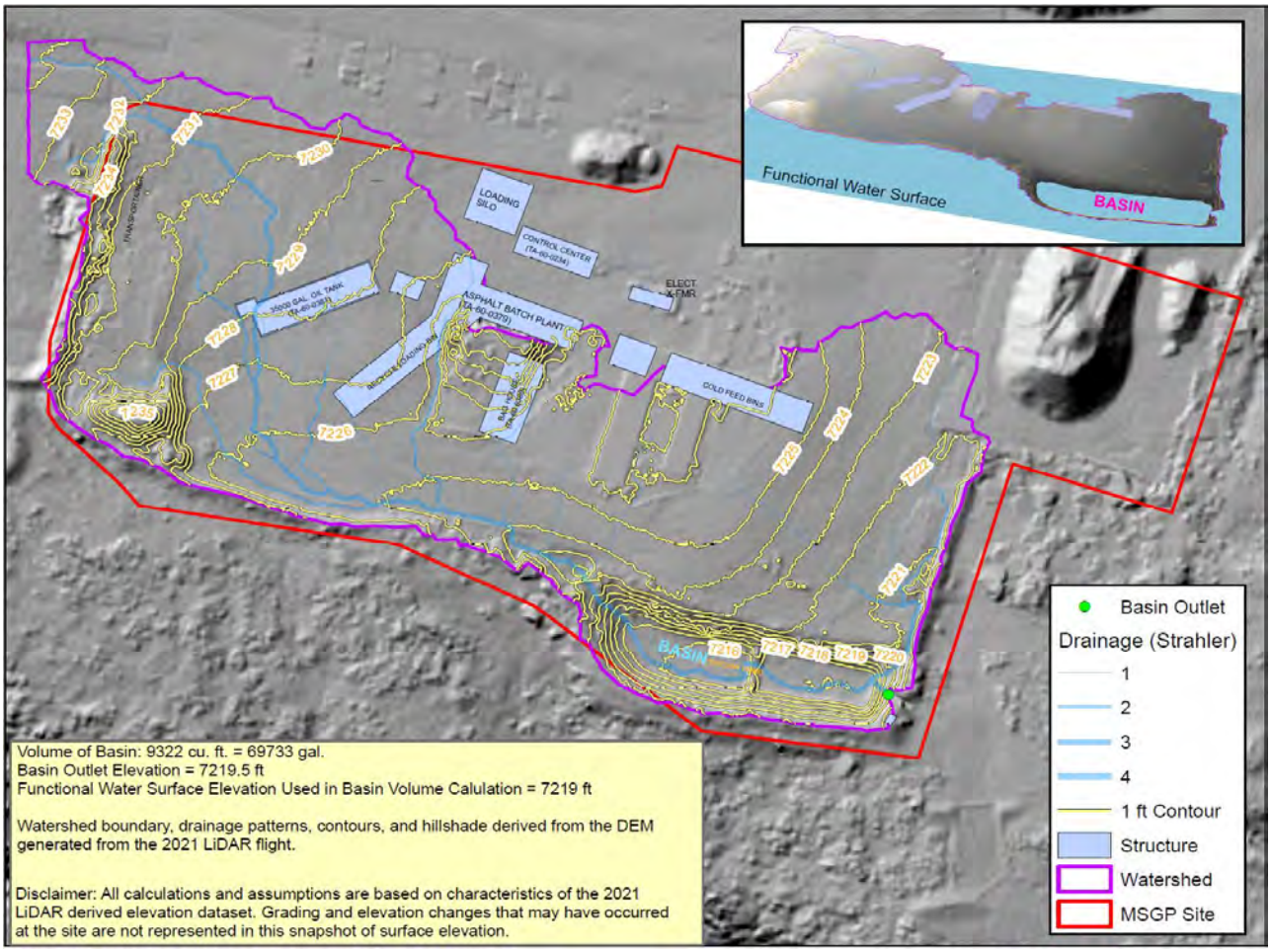

Figure 1: As built, drainage and containment description

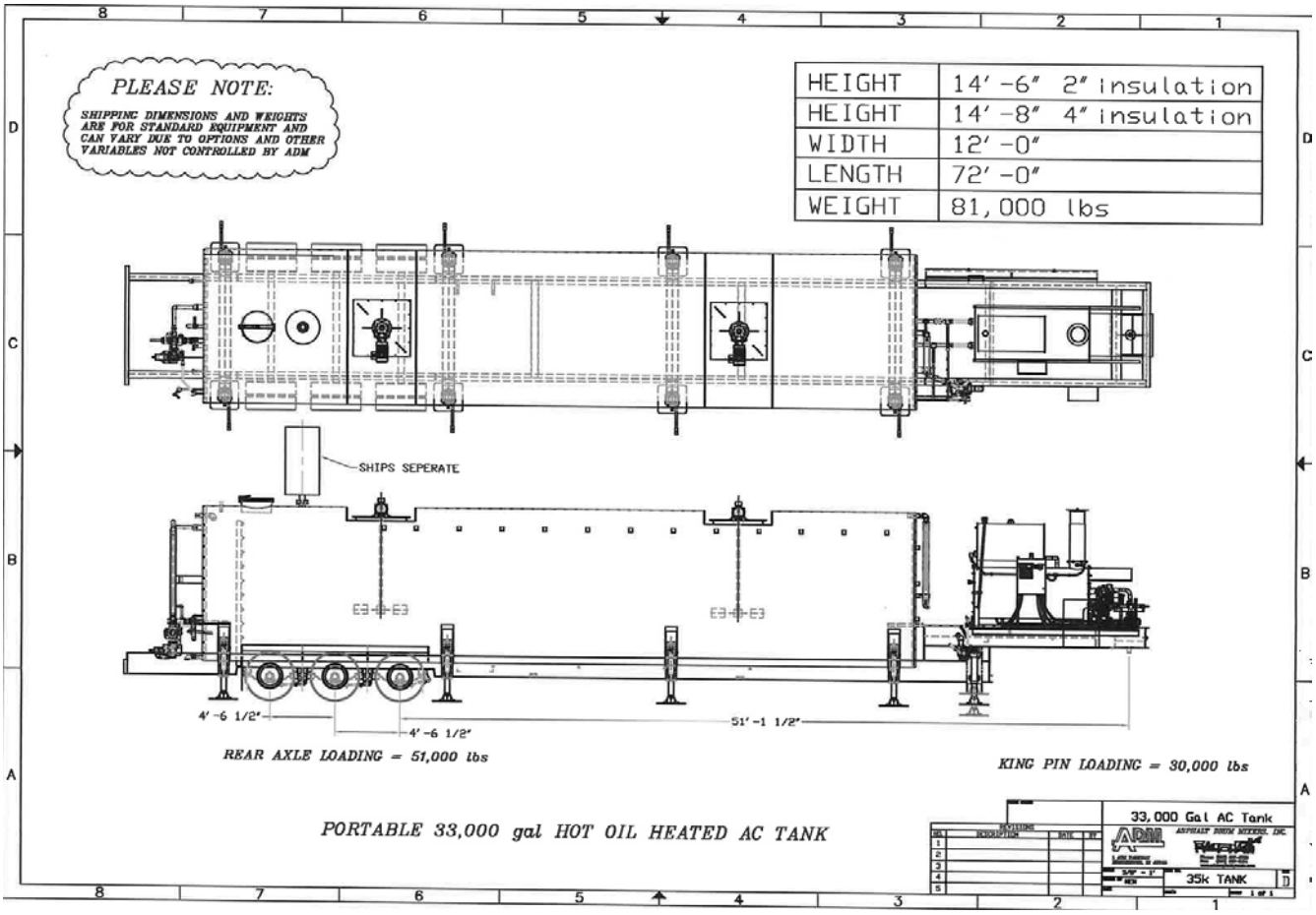

Figure 2: Asphalt Cement Tank Engineered Drawing

Appendix D: Inspection Forms, Inspection Records, and Corrective Action Records

Daily Walk-Around Checklist (41-020-001.1 R0)
Monthly SPCC Walk-Around Inspection
and Annual SPCC Walk-Around Inspection Forms
Copies of Monthly and Annual Inspection Reports
(COMPLETED DAILY CHECKLISTS ARE IN A SEPARATE BINDER)

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Los Alamos NATIONAL LABORATORY EST. 1943	**Logistics Division** **Asphalt Plant Operations** **ASPHALT PLANT (AP) DAILY OPERATIONS CHECKLIST PART 1**	
	START DATE:	**END DATE:**

Part 1 – Place a checkmark √ if the condition is OK or X if corrective action required (CAR) and document it in Part 2.

SECTION 1

HEAT TRANSFER OIL, HEATER AND OIL TANK, PRE-OPERATIONAL INSPECTION

ACTION	MON	TUE	WED	THU	FRI	SAT	SUN
Energize master control panel for all AP operational functions when operating (not daily).							
Use hand held propane torch to heat up asphalt pumps and valves to aid in circulation as needed, weather and conditions dependent.							
Complete checklist for each day the AP is operational. For periods when plant is not in operation, complete Section 1 of checklist on a weekly basis.							
Inspect heat transfer oil heater and oil level weekly with dipstick. If necessary, refill to at least ½ of capacity, done in accordance with manufacturers specifications.							
Inspect heat transfer oil pump for leaks.							
Inspect all operating systems which include: Electric drive motors, heat transfer oil pump, blower fan and housing. Ensure wiring is protected in conduit.							
Inspect asphalt temperature setting control valve and set operating temperature between 250° F and 350°F. **Do not exceed 360°F**.							
Check oil tank and pad for spills, leaks, and problems with lines or spill containment. Inspect petro-pipe and maintain as needed per visual inspection and manufacturer's maintenance schedule (appendix H).							
Report and generate corrective action on oil leaks and deficiencies before starting Operations.							
Verify asphalt temperature on side of tank before starting and then monitor every hour after to ensure that the temperature does not drop below 250° F or exceeds 360°F.							

Start air compressor and ensure it **does not** exceed 130 psi.							
SECTION 2 **START-UP, BURNER, AND MIXING OPERATION**							
ACTION	**MON**	**TUE**	**WED**	**THU**	**FRI**	**SAT**	**SUN**
Start-up procedures for AP operational functions are to be followed in accordance with the Asphalt Drum Mixers, Inc. operating manual. Hard copy binder is in the AP control room.							
SECTION 3 **SHUTDOWN**							
ACTION	**MON**	**TUE**	**WED**	**THU**	**FRI**	**SAT**	**SUN**
Shut-down procedures for AP operational functions are to be followed in accordance with the Asphalt Drum Mixers, Inc. operating manual. Hard copy binder is in the AP control room.							

Logistics Division
Asphalt Plant Operations

ASPHALT PLANT DAILY OPERATIONS CHECKLIST PART 2

APPROVALS	MON	TUE	WED	THU	FRI	SAT	SUN
Craft signature _____ **Print name** _____ ***Z#*** _____ **Date** _____							

Document corrective action required (CAR) in response to safety, mechanical, or operational deficiency noted in Part 1. Describe deficiency and action taken with the date and time. If more than one CAR is required, number them. Superintendent must sign below to acknowledge receipt of information and once week for acknowledgement of compliance.

Superintendent signature _____ *Z-number* _____

Print name _____ *Date* _____

Los Alamos

Los Alamos National Laboratory

Los Alamos, New Mexico 87545

MONTHLY SPCC PLAN WALK-AROUND INSPECTION FORM

for

TA-60, Asphalt Plant

General Site Information

Inspection Date:		Inspector:	
Technical Area:		Structure #:	
Tank Contents:		Capacity Tank:	
Adequate lighting:	Yes ❑ No ❑	Is Facility fenced?	Yes ❑ No ❑

Storage Unit Condition

Describe general condition of tank and support structure, valves, and/or piping (signs of rust, leakage, tank residing in water, cracks in foundation, no labels, etc.):	
Any change in tank content's volume?	Yes ❑ No ❑
Grounding Wires:	Adequate ❑ Inadequate ❑ N/A ❑
Level Gauge:	Adequate ❑ Inadequate ❑ N/A ❑
Liquid Level Alarm System:	Adequate ❑ Inadequate ❑ N/A ❑
Foundation Condition:	Good ❑ Poor ❑ N/A ❑
Flanges, Valves, Nozzles and Piping:	Good ❑ Poor ❑ N/A ❑
Ladders or Stairs:	Good ❑ Poor ❑ N/A ❑
Transfer Pump:	Good ❑ Poor ❑ N/A ❑

Secondary Containment Condition

Describe general condition of containment unit (storm water accumulation, presence of oil or other material, signs of damage, leaks, cracks, erosion, status/condition of discharge valve, etc.):	
Storm water discharge valve:	Locked ❑ Unlocked ❑ No valve ❑
Pad? (if yes, describe in comments below):	Yes ❑ No ❑
Containment liner (for earthen berms):	Good ❑ Poor ❑ No liner ❑
Storm Water Accumulation in Containment Unit:	Yes ❑ No ❑
Oil accumulation in containment:	Yes ❑ No ❑

Comments:
Items Requiring Corrective Actions:
Corrective actions taken (give dates):
Inspector's signature: Date:

TA-60 ASPHALT PLANT ANNUAL SPCC WALK-AROUND INSPECTION FORM
General Information

EPC-CP-TP-1103-FORM1, AST/SPCC Inspection Form			
Inspector:		**Date:**	
Facility ID:		**FOD:**	
Owner/Operator:		**DEP:**	
SPCC Plan:			
INSPECTIONS			
Checklist Type	**Describe** *(Attach Completed Inspection Checklists for Each Inspection)*		
☐ Tanks/Tank Systems			
☐ Non-Tank Oil Storage Area(s)			
☐ Oil Containing Equipment			
☐ Transformers			
☐ Mobile Refueling Equipment			
SUMMARY			
Issues Requiring Corrective Action:			
Corrective Actions Taken:			
Comments:			
SIGNATURES			
Inspector:		**Date:**	
Owner/Operator:		**Date:**	

SPCC Documentation Checklist

CHECKLIST 1: SPCC Plan Documentation

(Complete this checklist for every inspection.)

Facility ID:		**FOD:**	
Owner/Operator:		**DEP:**	
SPCC Plan:			

Inspection Criteria	Status	Notes/Observations
Is the SPCC Plan current (i.e., not expired)?	Yes ☐ No ☐	
Does the SPCC Plan include the last 3 years of inspection reports?	Yes ☐ No ☐	
Are inspection reports complete and signed?	Yes ☐ No ☐	
Does the SPCC Plan include the required training certifications?	Yes ☐ No ☐	
Are the training certifications current?	Yes ☐ No ☐	
Do the training certifications match the signatures on the inspection reports?	Yes ☐ No ☐	
Are inspection reports complete and signed?	Yes ☐ No ☐	
Has the SPCC Plan been maintained/updated to include spill reports, if any?	Yes ☐ No ☐	

Comments:

NOTE: *Non-compliance(s) with AST/SPCC requirements identified during the inspection may require tracking in accordance with P322-4, Issues Management, and/or 322-6, Nonconformance Reporting.*

Items Requiring Corrective Action:

Corrective Actions Taken:

Tank/Tank Systems Checklist

CHECKLIST 2: Tanks/Tank Systems

(Provide a separate checklist for each tank/tank system inspected, if applicable.)

Facility ID:		**FOD:**	
Owner/Operator:		**DEP:**	
SPCC Plan:			
Structure No.:			
Tank Contents:			
Capacity/Volume:			

Describe general condition of tank and support structure, valves, and/or piping (signs of rust, leakage, tank residing in water, cracks in foundation, no labels, etc.):

Criteria	Status	Notes/Observations *(take photographs)*
GENERAL		
Have non-compliances from the previous inspection been corrected?	☐ Yes ☐ No	
Are there any changes?	☐ Yes ☐ No	
What is condition of lighting?	☐ NA ☐ Adequate ☐ Inadequate	
What is condition of the fencing?	☐ NA ☐ Adequate ☐ Inadequate	
Any change in tank volume?	Yes ☐ No ☐	
CONDITION		
What is the condition of the tank exterior (i.e., shell, roof, connections, valves)?	☐ NA ☐ Adequate ☐ Inadequate	

CHECKLIST 2: Tanks/Tank Systems

(Provide a separate checklist for each tank/tank system inspected, if applicable.)

What is the condition of appurtenances (i.e., piping, flanges, valves, nozzles, seals, mounting hardware, and pumps)?	☐ NA ☐ Adequate ☐ Inadequate	
Does the tank have a vent and does that vent operate correctly?	Yes ☐ No ☐ NA ☐	
If the tank is double walled, is there water or fuel within the interstitial space?	Yes ☐ No ☐ NA ☐	
What is the condition of ladders, platforms, or stairs?	☐ NA ☐ Adequate ☐ Inadequate	
Does the level gauge work and is it legible?	Yes ☐ No ☐	
What is the condition of the overfill equipment associated with the tank?	☐ NA ☐ Adequate ☐ Inadequate	
Do the liquid level alarms and mechanical mechanisms work?	Yes ☐ No ☐ NA ☐	
What is the condition of the grounding wires/grounding:	☐ NA ☐ Adequate ☐ Inadequate	
Describe any other conditions that may be detrimental to the safe operation of the tank/tank system:		

Criteria	**Status**	**Notes/Observations** ***(take photographs)***
FUEL QUALITY AND WATER LEVELS		
Manual Measurement: Automatic Tank Gauge Reading:	☐ NA ☐ Difference <1in Adequate ☐ Difference >1in Inadequate	

CHECKLIST 2: Tanks/Tank Systems

(Provide a separate checklist for each tank/tank system inspected, if applicable.)

Did the water finding paste detected water?	☐ Yes ☐ No	
Is corrosion visible?	☐ Yes ☐ No	
HOUSEKEEPING		
Is there a spill kit available and located nearby or as specified in the SPCC Plan?	☐ Yes ☐ No	
Has the spill kit been maintained (i.e., open it and look at contents)?	☐ Yes ☐ No	
Are there combustibles in the storage area or secondary containment (i.e., used rages, cardboard, wood pallets)?	☐ Yes ☐ No	
Are egress pathways and gates/doors clear and operable?	☐ Yes ☐ No	
Are there weeds, grass, debris, abandoned equipment, or waste items that need to be removed or require disposal?	☐ Yes ☐ No	
SECONDARY CONTAINMENT		
Describe general condition of secondary containment (storm water accumulation, presence of oil or other material, signs of damage, leaks, cracks, erosion, status/condition of discharge valve, etc.):		
Criteria	**Status**	**Notes/Observations** ***(take photographs)***
What is the condition of the storm water discharge valve?	☐ NA ☐ Adequate ☐ Inadequate	
Is the storm water discharge valve locked?	Yes ☐ No ☐ NA ☐	
What is the condition of the containment sump (i.e., debris, cracked, weeds)?	☐ NA ☐ Adequate ☐ Inadequate	
If the containment is an earthen berm what is the condition of the berm and liner?	☐ NA ☐ Adequate ☐ Inadequate	

CHECKLIST 2: Tanks/Tank Systems

(Provide a separate checklist for each tank/tank system inspected, if applicable.)

Is there evidence of a leak or water accumulation in the containment?	☐ Yes ☐ No	
Is there equipment/materials stored in the containment that are not included in the SPCC Plan?	☐ Yes ☐ No	
Is there sediment and/or debris in the containment?	☐ Yes ☐ No	

Area Drainage

Describe the area drainage (i.e., path nearest watercourse, storm drain, retention pond):

Criteria	Status	Notes/Observations *(take photographs)*
Is the tank/tank system inside?	☐ Yes ☐ No	
If the tank/tank system is inside are there any floor drains in the containment?	☐ Yes ☐ No	
Where do floor drains discharge (i.e., SWWS, RLW, Other)?	☐ SWWS ☐ RLW ☐ Other (describe)	
Is there evidence of a spill in the drainage area?	☐ Yes ☐ No	

Comments:

NOTE: *Non-compliance(s) with AST/SPCC requirements identified during the inspection may require tracking in accordance with P322-4, Issues Management, and/or 322-6, Nonconformance Reporting.*

Items Requiring Corrective Action (take photographs for the report):

Corrective Actions Taken:

Appendix E: Spill Tracking Log, Notifications, and Spill Reports

TA-60 ASPHALT PLANT – SPILL TRACKING LOG

Date and time	Spill Location	Quantity discharged in arroyo, stream, river, or canyon	Type, source, Material and Quantity Spilled*	Description of affected media	Cause of discharge	Damages or injuries caused by discharge	Corrective Action Taken	Evacuation needed?	Names of those contacted
3/26/07	Leak from 15,000 gal. tank	None	Asphalt cement	Concrete Secondary Containment	Tank Seam Malfunction	None	Cleaned up; repaired tank 4/2007	No	Eberline, ENV-CP
3/27/07	Staging Area North of Asphalt Plant	None	5 gal. Asphalt cement from 3/26/07	Earthen bermed area in Staging Area, no liner	Improper disposal of Asphalt cement slag from 3/26/07 leak	None	Put into 55 gal. barrel and disposed of as NM Special Waste	No	Eberline, ENV-CP
4/28/20	Release from Hopper northeast of secondary containment	None	5,700 gal. Asphalt cement	Ground surface	Valve Misalignment	Asphalt cement solidified across ground surface and off mesa top	Clean up complete 2021; valve replaced; site drainage improvement completed	No	Pearson, EPC-CP

TA-60 ASPHALT PLANT – SPILL NOTIFICATIONS

National Response Center

The National Response Center or NRC is the federal government's national communications center, which is staffed 24 hours a day by U.S. Coast Guard officers and marine science technicians. The NRC receives all reports of releases involving hazardous substances and oil that trigger the federal notification requirements under several laws. Reports to the NRC activate the National Contingency Plan and the federal government's response capabilities. It is the responsibility of the NRC staff to notify the pre-designated on-scene coordinator (OSC) assigned to the area of the incident and to collect available information on the size and nature of the release, the Facility or vessel involved, and the party (ies) responsible for the release. The NRC maintains reports of all releases and spills in a national database.

How to Report Oil Spills

Reporting a hazardous substance release or oil spill takes only a few minutes. To report a release or spill, contact the federal government's centralized reporting center, the National Response Center (NRC), at 1-800-424-8802. The NRC is staffed 24 hours a day by U.S. Coast Guard personnel, who will ask you to provide as much information about the incident as possible. If possible, you should be ready to report the following:

Your name, location, organization, and telephone number
Name and address of the party responsible for the incident
Date and time of the incident
Location of the incident
Source and cause of the release or spill
Types of material(s) released or spilled
Quantity of materials released or spilled
Danger or threat posed by the release or spill
Number and types of injuries (if any)
Weather conditions at the incident location

Any other information that may help emergency personnel responds to the incident

If reporting directly to the NRC is not possible, reports also can be made to the EPA Regional office or the U.S. Coast Guard Marine Safety Office in the area where the incident occurred. In general, EPA should be contacted if the incident involves a release to inland areas or inland waters, and the U.S. Coast Guard should be contacted for releases to coastal waters, the Great Lakes, ports and harbors, or the Mississippi River. The EPA or U.S. Coast Guard will relay release and spill reports to the NRC promptly.

How Reports Are Handled

All reports of hazardous substance releases and oil spills made to the federal government are maintained by the NRC. The NRC records and maintains all reports in a computer database called the Emergency Response Notification System, which is available to the public. The NRC relays the release information to an EPA or U.S. Coast Guard On Scene Coordinator (OSC), depending on the location of the incident. In every area of the country, OSCs are on-call and ready to respond to an oil or hazardous substance release at any time of the day. After receiving a report of an oil or hazardous substance release, the federal OSC evaluates the situation and, if the OSC decides that a federal emergency response action is necessary, the National Response System will be activated. Otherwise, the OSC will monitor the cleanup activities of the responsible party and the local and state governments and will assist in the cleanup as warranted.

EPA Region 6
Emergency Response Center 1-866-EPASPILL 1-866-372-7745

State of New Mexico
New Mexico State Police 505-476-9620
New Mexico Environment Department 505-827-9126

Notification of Spills and Unauthorized Discharges

Who Must Provide Notification? The owner, operator, or person in charge of any Facility where a discharge has occurred must provide notification such release to the New Mexico Environment Department.

What Kinds of Discharges Must be Reported? Any amount of any material in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or may unreasonably interfere with the public welfare or the use of property. This includes chemical, bio-hazardous, petroleum-product, and sewage spills and incidents. In addition to recent spills, the discovery of evidence of previous unauthorized discharges, such as contaminated soil or ground water, also must be reported.

Are There Reportable Quantities? New Mexico has not established reportable quantities.

When Must Notification Be Provided? Verbal notification must be provided as soon as possible after learning of a discharge, but in no event more than twenty-four (24) hours thereafter.

How Should Notification be provided?

For emergencies, call 505-827-9329 twenty-four hours a day.

For non-emergencies, call 866-428-6535 (voice mail, twenty-four hours a day).

For non-emergencies, and to reach an on-duty NMED staff member during normal business hours, call 505-827-2855.

TA-60 ASPHALT PLANT – SPILL REPORTS

Appendix F: Storm Water Discharge Forms

STORM WATER DISCHARGE RECORD
FOR
SECONDARY CONTAINMENT*

***This form is to be used in the absence of petro-pipe to ensure no oils or contaminants are discharged to the ground outside the containment.**

DO NOT DISCHARGE, especially into a watercourse or storm drain before filling out this form AND calling EPC-CP at 667-0666 for approval to discharge.

LOCATION: TA– _____ Near or at Building _____

GROUP CONTACT: _____

PHONE: _____ CELL: _____

SOURCE OF DISCHARGE: ❒ Detention Pond _____

❑ Secondary Containment ❑ Other

DESCRIBE DISCHARGE: _____

DATE AND TIME OF DISCHARGE: _____

NEAREST CANYON AFFECTED: _____

VOLUME OF DISCHARGE: _____ gallons

VISUAL DESCRIPTION OF DISCHARGE:

- pH: _____
- Color: _____
- Clarity: _____
- Odor: _____
- Sheen: _____

OTHER ANALYSES REQUESTED:

_____

_____

LAB DOING ANALYSES: PHONE#:

COMMENTS:

_____

Signature: _____

Date: _____

Appendix G: Training Records

Appendix H: Petro-Pipe Use Maintenance and Installation

Petro-Pipe Use Maintenance and Installation

Petro-Pipe
6” X 16" or 20” Long Flanged
with 7” Flanged Housing Pipe

The PIFH-616 Petro-Pipe is used for rainwater discharge from oil containment areas. The 7” housing pipe is flanged and is mounted through the liner or containment wall. The housing pipe is best when installed on a 15 - 25 degree slope allowing water to build up on the face of the Petro-Pipe providing positive head pressure for optimum flow of 3 to 3.5 gpm.

The Petro-Pipe is installed into the housing and is attached with 5 stainless steel screws. There is an o-ring between the flanges that is compressed when the screws are tightened creating an water/oil tight seal.
In a liner application there is an additional flange that is attached to the liner prior to installing the housing pipe. This flange provides complete sealing of the liner to the Petro-Pipe.

Petro-Pipes have a retaining ring on the inside that is removable and a dirt filter is accessible. The dirt and debris filter keeps the Petro-Pipe free of dirt and requires checking usually once per year. Petro-Pipes allow for point discharge so they can be changed out and filters cleaned.

Petro-Pipe TM Maintenance & Replacement Information

1.0 PURPOSE

This standard practice provides the basic guidelines for safe maintenance and replacement of Petro-Pipe filters installed in a "Storm Water Conveyance
System."

2.0 APPLICABILITY

This standard applies to all qualified personnel maintaining and/or replacing Petro-Pipe filter cartridges.

3.0 DEFINITIONS

3.01 SPI: Solidification Products International
3.02 Storm Water Conveyance System: The bermed area surrounding oil filled equipment located in a sub-station or maintenance yard.
3.03 Swale: A low-lying or depressed paved stretch of land.
3.04 Visual Inspection: A visual inspection for an oil sheen, unusual color, mud or sediment on the water within the containment structure.
3.05 Petro-Pipe Complete Unit: Including sleeve and filter cartridges.
3.06 Petro-Pipe Sleeve: Plastic 16" long pipe with flange and cover.

4.0 PROCEDURE

4.01 An annual inspect of all oil containment Petro-Pipe filters is recommended prior to the rainy season.

4.2 If a "Storm Water Conveyance System" is backed up with rain water and a "Visual Inspection" has been conducted; remove the Petro-Pipe's cover
(See Figure A) to quickly discharge the run off.

STANDARD OPERATING PRACTICE

Disassemble Petro-Pipe Unit:

4.01.1 Pinch retaining ring's tabs with fingers and remove.
4.01.2 Remove Plastic Grate
4.01.3 Remove Flow Free Mesh and wash, (should not deteriorate).

4.01.4 Remove Filter Floss Material and replace if excessively dirty.
4.01.5 Remove and replace Micro-Mesh last cover in dirt filter
4.01.6 Remove five flathead screws and replace filter cartridge if contaminated with oil.
4.01.7 Reassemble Petro-Pipe Unit in reverse order

STANDARD OPERATING PRACTICE

Note: If it is the rainy season, and the Petro-Pipe cartridge appears to be clogged do the above steps. If not successful in unclogging, follow-up as a possible complete Petro-Pipe cartridge replacement may be necessary.

.3 Remove all trash and debris from the "Storm Water Conveyance System" and swales.

.4 Install the pipe sleeve in the "Storm Water Conveyance System" with the Petro-Pipe flange facing out on the curb side, (the pipe flange's bolt pattern is random).

Older Petro-Pipes will get new filters when replacement dirt filters are ordered

Current Petro-Pipe Internal Filters

Petro-Pipe and Pre-Filter Basket

5.0 Pre-Filter Basket Maintenance:

The filter basket is used on the inside on the containment area to prevent dirt and debris from entering into the Petro-Pipe and should be visually inspected on a monthly schedule.

5.1 If leaves or debris is accumulated around the filter basket they should be removed. The filter basket itself should also be checked by lifting the cover and looking at the dirt content in the filter floss batting. It the Filter floss Batting is dirty it should be replaced.

PFB-1012 Filter basket with Floss Batting can be easily removed and replaced

Dirt Filter batting that needs replacement.

6.0 Life span of Petro-Pipe

6.1 In wetter climates where rain fall is > 20+" per year Petro-Pipes should be replaced every three years.

.2 In more arid climates with rainfall of < 20" per year the Petro-Pipes should be replaced every 5 years.

.3 The date sticker on the Petro-Pipe is to reflect the month and year the Petro-Pipe was installed, so this used properly is an easy reference of when replacement of the Petro- Pipe is needed.

Date Stickers for SPI Products