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# **MSGP Stormwater Pollution Prevention Plan**

**for:**

## **TA-60-02 Salvage/Warehouse**

Triad National Security, LLC (Triad)

Los Alamos National Laboratory

**January 2021**

**Revision 1**

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## TA-60-02 Salvage/Warehouse 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, June 2015) issued by EPA. The SWPPP uses the industry specific permit requirements for *Sector P – Land Transportation & Warehousing* as a guide. The applicable stormwater discharge permit is EPA General Permit Tracing Number NMR050013 [Triad National Security, LLC (Triad)]. Click [here](#) to view contents of the [2015 Multi-Sector General Permit](#).

This SWPPP applies to discharges of stormwater from the operational areas of the TA-60-02 Salvage/Warehouse 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-60-02 Salvage/Warehouse. The current MSGP expires at midnight on June 4, 2020.

### 1.0 FACILITY DESCRIPTION

#### 1.1 Facility Information

Name of Facility: TA-60-02 Salvage/Warehouse		
Street: Eniwetok Drive, Southeast of Maniac Road		
City: Los Alamos	State: NM	ZIP Code: 87545
County: Los Alamos		
NPDES ID (i.e., permit tracking number): NMR050013		
Primary Industrial Activity SIC code, and Sector and Subsector (2015 MSGP, Appendix D and Part 8): SIC 4225, Sector P, Subsector P1		
Estimated area of industrial activity at site exposed to stormwater: 4.7 acres		
<b>Discharge Information</b>		
Name(s) of surface water(s)/segment that receives stormwater from your facility: Sandia Canyon (Sigma Canyon to NPDES outfall 001)		
Does this facility discharge industrial stormwater directly into any segment of an “impaired water” (see definition in 2015 MSGP, Appendix A)? <input checked="" type="checkbox"/> Yes      No		
Pollutants causing the impairment: Total Recoverable Aluminum, PCB (Aroclors), and Dissolved Copper		
Pollutants causing the impairment (see above) that may be present in industrial stormwater discharges from this Facility: Total Recoverable Aluminum and Dissolved Copper.		

Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2015 MSGP Table 1-1)? ☐Yes ☒No

If Yes, which guidelines apply? Not applicable.

## 1.2 Stormwater Pollution Prevention Team (PPT)

The Stormwater PPT for the TA-60-02 Salvage/Warehouse consists of operations and management personnel from the Utilities and Institutional Facilities (UI) Facilities Operations Division (FOD), the facility, a representative from Environmental Protection and Compliance-Compliance Programs (EPC-CP), and a Deployed Environmental Professional (DEP). The EPC-CP representative is responsible for subject matter expertise to ensure Laboratory compliance under the NPDES permit regulations. The team members are selected on the basis of their familiarity with the activities at the facility and the potential impacts of those activities on stormwater runoff.

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

Personnel Titles	Individual Responsibilities
<b>DEPs (Primary and Backup):</b>  EPC-CP Environmental Professionals	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 facility Pollution Prevention Team, 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 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 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.
<b>FOD Manager/Representative:</b>  UI-OPS Operations Managers	Responsible for managing the maintenance and operation of all aspects of the yards, buildings and facilities listed within this Plan. The Operations Manager shall provide review and ensure coordination with core personnel and the PPT, as appropriate, when tenants within the UI FOD propose a new process, or new site or operation that may be subject to the MSGP. The Operations Manager is key to ensuring

	adequate communication and coordination of issues regarding implementation of the MSGP and this Plan.
<b>LOG-DIV Manager/Representative:</b>  Operations Managers	Responsible for managing the maintenance and operation of all aspects of the yards, buildings and facilities listed within this Plan. The Operations Manager shall provide review and ensure coordination with core personnel and the PPT, as appropriate, when tenants within the UI FOD propose a new process, or new site or operation that may be subject to the MSGP. The Operations Manager is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan.
<b>EPC-CP Core:</b>  MSGP Program Lead, Environmental Professional	The MSGP Program Lead is responsible for managing and administering the MSGP Program for all industrial facilities operated by Triad within LANL. The MSGP Program Lead advises and provides guidance to facility or operations personnel on NPDES MSGP regulations/requirements. The MSGP Program Lead also acts as the institutional point of contact for all interactions with the regulatory authority (EPA) and supervises personnel implementing stormwater monitoring requirements for the facility.
<b>Site Manager:</b>  Operations Programs(OP)- Warehousing and Salvage Operations (WSO), Property Manager	Responsible for day-to-day operations at the facility. Assists the DEP and EPC with inspections; spill reporting; implementing, installing and maintaining stormwater controls (also known as Best Management Practices) (BMPs); and providing documentation as required by other team members. The Site Manager is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan. The Site Manager also assists the DEP/EPC with SWPPP training and/or briefings, as requested.

### 1.3 Site Description

The primary operation of the TA-60-02 Salvage/Warehouse is shipping and receiving of various materials and equipment. The facility is used to stage and store new and used Laboratory office furniture, equipment and vehicles for salvage or re-use/recycle at LANL or resale to another DOE/General Services Administration (GSA) facility. The facility is also used to receive, temporarily store and distribute materials of trade, primarily for the Logistics-Maintenance Subcontract Management/Utilities (LOG-MSM/UI) organization.

The boundary of the facility covers 4.7 acres on Eniwetok Drive within LANL. The site is located southeast of Sandia Canyon, which serves as the watershed for the area. The site includes Buildings 60-02, 60-03 and associated storage yards located to the south and east. Eighty percent of the site consists of impervious surfaces including the main Salvage/Warehouse building, canopied storage structures, and paved outdoor lots.

Building 60-02 is the warehouse. The north side is used for the indoor storage and distribution of products and chemicals used by the LOG-MSM/UI Division. The south side is used by the salvage



organization for indoor storage of new items, used computers and office supplies; receiving of various parts and equipment; and is a storage area for archived files. It also consists of offices for purchasing and warehouse personnel. There are two loading dock areas located in the front (or west side) of the building; one on both the north and south end. Paved parking areas are located on the west and north sides of the building.

Most of the salvage activity takes place outside and to the south and/or east of Building 60-02. Prior to receipt, all materials and equipment in the salvage area are reviewed for potential contamination including radiological and hazardous constituents.

Used office furniture and supplies, available for re-use to laboratory personnel or for auction, are stored on the westernmost half of the fenced salvage yard south of Building 60-02. Additional items stored in the south and east lots include racks of piping and various laboratory equipment that is to be sold or salvaged. Several roll-off storage containers are located in the south and east lots.

A lead acid battery storage area is located south of Building 60-02. The battery storage area is a secondary containment unit constructed of concrete berms with a locked drain on the north end. The batteries are stored in poly-drums or buckets or are sealed and covered with plastic and sit on wooden pallets inside the bermed area. The batteries are picked up at least once every six months by a recycling vendor.

A metal-roofed (canopy) structure is attached to the east side of Building 60-02. Items stored under the structure include laboratory equipment/machinery that is to be salvaged or sold, and forklifts used for material handling. Potassium-based de-icer is stored to the north of the canopied area and is kept covered with a tarp. The northern portion of the canopied area is bermed.

Building 60-07 is an enclosed corrugated metal storage shed located at the NE edge of the yard that is currently used to temporarily store food grade salt, soda ash and wiring.

Building 60-03 is located directly east (or across) from Building 60-02 and is a metal-roofed (canopy) open storage area, used to store potassium-based de-icer, treated wood, new/used equipment and steam valves.

There are several metal storage racks located in the central portion of the east yard area which are used to store a variety of metal piping and materials.

The adjacent fenced area south and east of the Salvage/Warehouse is used to store lineman utility poles. It is also used to store excess recyclable materials.

Industrial activities and major structures at the facility are shown on the Site Map in Figure B-1. Detailed descriptions of the facility areas and industrial activities are provided in Section 2.0.

## Outfalls

There are four stormwater outfalls associated with this facility: Outfalls: 026, 027, 028 & 075.

Outfalls 026, 027 and 028 are located on the eastern boundary of the main Salvage/Warehouse site. Outfall 075 is located south of the main facility.

**Outfall 026:** is the southernmost of the discharge points and includes an automated sampler **MSGP02601**. An earthen berm along the southeast corner of the facility diverts stormwater to the outfall.

**Outfall 075:** is located south of the main Salvage/Warehouse facility at the adjacent linemen utility pole storage yard and includes automated sampler **MSGP07501**.

**Substantially Identical Outfalls:** Outfalls 027 and 028 are substantially identical to 026 where stormwater monitoring is performed.

The site map for the facility can be found as Figure B-1 and provides locations of all receiving waters associated with stormwater discharges from the facility.

### 1.4 General Location Map

The general location map for the facility can be found in Figure A. Figure B-1 contains the site map and Figure B-2 identifies receiving waters associated with stormwater discharges from the facility. All of the stormwater from TA-60-2 Salvage/Warehouse flows to Sandia Canyon. The canyon at this location is a perennial stream that eventually flows to the Rio Grande approximately 8 miles southeast of the site.

### 1.5 Site Map

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

As required by the 2015 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 4.7 acres
- **Significant structures and impervious surfaces.** The site is 80% 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.**
- **Locations of all receiving waters.** In the immediate vicinity of the facility, indicating if any of the waters are Impaired and, if so, whether the waters have TMDLs established for them (see paragraph below this list). A map of nearby receiving waters is provided as Figure B-2.
- **Locations of all stormwater conveyances.** This includes all ditches, pipes, and swales.
- **Locations of potential pollutant sources.**
- **Locations of significant spills or leaks.**
- **Locations of all stormwater monitoring points.**
- **Locations of stormwater inlets and outfalls.** A list of the outfalls are identified in Section 1.3 above and are identified in Figure B-1.
- **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 none in the direct vicinity of the facility. However, a map for threatened and endangered species within LANL property is included as Figure B-3.
- **There are no non-stormwater discharges at the facility (see certification in Attachment 3)**
- **Locations of the following activities where such activities are exposed to precipitation:**
  - vehicle and equipment maintenance and/or cleaning areas;
  - loading/unloading areas;
  - locations used for storage of wastes;
  - storage areas;
  - immediate access roads traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility;
  - transfer areas for substances in bulk;
  - machinery; and
  - locations and sources of run-on to the site.

## 2.0 POTENTIAL POLLUTANT SOURCES

Industrial activities that could potentially result in releases to the environment are summarized in 2.1 below. In general, materials stored in outside locations at the TA-60-02 Salvage/Warehouse have containment structures, are in roofed areas, or have other devices or practices to contain spills and prevent run-on and runoff.

### 2.1 Potential Pollutants Associated with Industrial Activity

- **Material Storage/East and South Storage Lots**  
Storage of metal and wooden office furniture for salvage, sale or laboratory re-use, roll-off bins containing materials and debris for disposal, de-icer.  
*Potential pollutants include heavy metal residuals/rust, potassium, sodium chloride, floating debris.*
- **Metal Storage/60-02 Canopied Storage**  
Storage of machinery, forklifts, and de-icer. *Potential pollutants include potassium, sodium chloride, sodium carbonate, fuel, oil, machine oil, floating debris.*
- **Material Storage/60-03 Canopied Storage**  
Storage of treated wood, erosion control products, de-icer, drums of oil, new and used equipment. *Potential pollutants include potassium, sodium chloride, oil, gasoline, diesel, copper, arsenic, floatable debris.*
- **Metal Storage Racks**  
Storage of metal piping. *Potential pollutants include heavy metal residuals/rust.*
- **Lead Acid Battery Storage**  
Storage of lead acid batteries for recycle (in secondary containment unit). *Potential pollutants include lead, acid (primary risk is during loading/unloading).*

- **Outdoor Vehicle Storage and Parking**  
Storage of forklifts, oil containing equipment to be salvaged, GSA and other transport vehicles (i.e. flat-bed trailers). *Potential pollutants include oils, fuel, hydraulic fluids, heavy metals, and organics.*
- **North Loading Dock**  
Used to load and unload maintenance products and supplies. *Potential pollutants include flammable liquids, aerosols, corrosives, hydraulic oil, mineral oil, floatable debris.*
- **South Loading Dock**  
Used to load and unload materials from the south and east storage yards. *Potential pollutants include everything listed above.*
- **Trash & Cardboard Dumpsters**  
For trash disposal and cardboard recycle. *Potential pollutants include floatable debris, plastics, food and cardboard, which can get blown around the parking lot or carried out of the dumpster by birds or other wildlife.*
- **Linemen Storage Yard**  
Storage of utility poles (treated wood) and excess salvage materials. *Potential pollutants include copper, arsenic, heavy metal residuals.*

#### **Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs)**

**AOC 60-001(b)** consists of a corrugated metal storage structure with a concrete floor (Bldg. 60-07) located in the northeast corner of the TA-60-02 Salvage/Warehouse yard. Before December 1992, materials stored in the shed included 1- and 5-gallon containers of paint, paint remover, paint/lacquer thinner, methyl ethyl ketone, concrete primer and an over pack drum containing absorbent materials. Oil and grease staining from a leaking forklift occurred on the concrete floor between the large center door and small door near the northwest corner of the structure. In 1990, TA-60-07 was designated as an active satellite waste and hazardous materials accumulation area. However, facility contract personnel confirmed that no waste was ever handled or stored at TA-60-07, and there had been no record of spills or releases of paints, thinners, or solvents since its construction in 1978.

The AOC was proposed for no further action (NFA) in the 1993 RFI Work Plan for Operable Unit (OU) 1114, which was approved by EPA in 1994. AOC 60-001(b) was reviewed for ecological risk in the Documentation of Ecological Risk Assessment completed in 1997 and found not to require an ecological risk screening assessment.

**AOC 60-004(f)** consists of two former unpaved, bermed storage pads, Pad 2 (12ft x 65ft) and Pad 3 (12ft x 40ft), located in the southeast section of the TA-60 Salvage/Warehouse yard. Both pads were used to store 55-gal containers that dispensed Stoddard solvent, antifreeze, motor oil, grease, transmission fluid, and window-washing fluid. The pads were constructed in 1978 when the maintenance Salvage/Warehouse was built. In 1985, 6-inch asphalt berms were built at the open ends of both pads to mitigate rainfall run-on and runoff. In 1990, all containers were removed from the pads. Stained soil with a petroleum odor was observed within the bermed pads.

AOC 60-004(f) was formerly identified as AOC C-60-005: however the designation was changed to AOC 60-004(f) in the December 1993 response to the OU 1114 Resources Conservation and Recovery Act (RCRA) Facility Investigation (RFI) work plan Notice of Deficiency (NOD).

During the 1994 RFI conducted, 13 samples were collected from five locations at Pad 2, and 11 samples were collected from five locations at Pad 3. Samples were submitted for analysis of TAL metals, VOCs, SVOCs, PCBs, pesticides, and radionuclides. Data from the 1994 investigation are screening-level and showed aluminum, arsenic, barium, calcium, chromium, copper, lead, magnesium, manganese, mercury, nickel, and zinc detected above background values (BVs), Aroclor-1254 and Aroclor-1260 were detected, and tritium was detected. VOCs, SVOCs, and pesticides were not detected.

During the 2009 Phase I Consent Order investigation 20 samples were collected from five locations. All samples were submitted for analysis of TAL metals, PCBs, VOCs, SVOCs, TPH-DRO, cyanide, and tritium.

Decision-level data for AOC 60-004(f) consists of results from 20 samples collected at five locations in 2009. The 2015 supplemental investigation report concluded 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 or dose under the industrial or construction worker scenarios and poses no unacceptable ecological risk. The residential HI and dose are less than the NMED and DOE target levels. This AOC is included in the September 2015 Supplemental Investigation Report for Upper Sandia Aggregate Area, Revision 1, submitted to the New Mexico Environmental Department under the Consent Order. The Site meets industrial, construction worker, and ecological risk levels and was recommended for corrective action complete with controls in that report. 60-004(f) will be eligible for a Certificate of Completion (CoC) with controls upon approval of the supplemental investigation report by NMED.

## 2.2 Spills and Leaks

Spills and leaks for November 2018 through 2020 are summarized below. Spills and leaks that occurred prior to 2019 are documented in the Los Alamos National Security, LLC (LANS) SWPPP for the same location. LANS was the prior operator of LANL.

Date	Description	Outfall(s) Affected
November 2020	There was a spill of material (presumed to be from the fire suppression system) under the canopy east of TA-60-2 by LT-6. The area was cleaned up and micro-blazed.	None
December 2019	There was a spill of material (presumed to be from the fire suppression system) under the canopy east of TA-60-2 by LT-6. The area was cleaned up and micro-blazed.	None

### Areas on Site Where Potential Spills/Leaks Could Occur

LOCATION	OUTFALLS (see site map)
Lead-Acid Battery Storage Area	026
South and East Storage Lots	026, 027, 028
Bldg. 60-02 Canopied Storage	026, 027, 028
Bldg. 60-03 Canopied Storage Area	026, 027, 028

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 correction action occurs, in accordance with EPC-CP-QP-022, *MSGP Corrective Actions*.

The probability of spills or releases at the facility is minimized by the application of good housekeeping procedures and appropriate operational processes. These operational processes include drum dollies and drum grapplers on the forklifts used for unloading and reloading operations. Appropriate response measures for a spill or release of hazardous materials are applied when addressing spills. The specific spill response and cleanup procedures will depend on the nature of the spilled material. Specific spill response and reporting procedures for LANL are listed in Section 3.1.4 of this SWPPP.

### 2.3 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.

### 2.4 Salt Storage

Bagged potassium and sodium chloride based de-icer is stored in the TA-60-02 and TA-60-03 canopied storage areas and on the northeast side of TA-60-02.

## 2.5 Historical Data Summary

The following table provides sampling data at the facility for the past year (2020).

### Permitted Facility: TA-60-02 Salvage/Warehouse

Calendar Year 2020

Monitored Outfall	Discontinue Monitoring		Continue Monitoring				
	Average of four monitoring values did not exceed benchmark; quarterly monitoring discontinued per Section 6.2.1.2	Impaired water constituent was not detected in storm water discharge; annual monitoring discontinued per Section 6.2.4.1.	Fewer than four quarterly samples have been collected in current sequence. Average concentration is not mathematically certain to exceed benchmark.	Average concentration mathematically certain to exceed benchmark.	Average of four quarterly monitoring values exceeded benchmark.	Impaired water constituent was detected, but did not exceed New Mexico Water Quality criterion	Impaired water constituent exceeded New Mexico Water Quality criterion.
026	N/A <sup>1</sup>	—	N/A	N/A	N/A	Al	Cu
075	N/A	—	N/A	N/A	N/A	—	Al, Cu

<sup>1</sup>N/A – No quarterly benchmark monitoring required.

### 3.0 STORMWATER CONTROL MEASURES

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

Proper material management and storage minimize the potential for exposure of precipitation and runoff to potentially hazardous materials. Containers that could be susceptible to spillage or leakage will be plainly labeled (e.g., “Used Oil,” “Spent Solvents,” etc.). Most operations and storage areas are located within structures or under canopies, so that the potential for exposure of industrial materials to stormwater is limited to the south and east open yard areas, vehicle/forklift parking and loading areas. Adequate secondary containment is provided for outdoor storage units containing potentially hazardous materials. Heavy equipment repair and maintenance is performed offsite.

#### 3.1 Non-Numeric Technology-Based Effluent Limits

Part 8 of the 2015 MSGP identifies sector-specific requirements for **Sector P – Land Transportation and Warehousing** in addition to the numeric limits outlined in this Section. The facility must comply with requirements associated with the primary industrial activities described in Section 1.3 of this SWPPP and any co-located industrial activities as defined in Appendix A of the 2015 MSGP. The sector-specific requirements only apply to those areas of the facility where the sector-specific activities occur.

The following Sector-Specific Non-Numeric Effluent Limits are addressed at this facility:

- **Vehicle and Equipment Storage Areas:** See section 3.1.1 for specific controls in these areas.
- **Material Storage Areas:** See sections 3.1.1 - 3.1.8 for specific controls in these areas.
- **Employee Training:** See section 4.5 for employee training requirements.

##### 3.1.1 Minimize Exposure

- **Covered and Enclosed Structures:** Industrial materials are kept inside the Salvage/Warehouse building when possible. For outdoor storage of materials, the covered canopy structures or enclosed transportainers are utilized when feasible. Equipment that is subject to leak or rust, and material such as de-icer takes precedence for storage in these areas.
- **Spill Control:** Industrial areas are frequently inspected for leaks and checked during monthly Routine Facility Inspections. Oil absorbent and Micro-Blaze® is available in the Salvage/Warehouse building for containment and clean-up if needed.
- **Metal Storage Racks:** Metal piping and materials are kept on metal storage racks off the ground. Raw metal material destined for fabrication, not normally used outdoors (like conduit or chain link fencing) is covered with heavy duty tarps.
- **Material Wrapping/Tarps:** Materials are kept wrapped in original packing when possible or covered with additional tarps as needed (as a temporary precaution).
- **Secondary Containment Units:** Items such as lead acid batteries are kept covered in secondary containment units to minimize releases should a spill or puncture occur.



- **Covers for Trash Dumpsters and Recycle Bins:** Trash dumpsters and recycle bins located at the facility are kept closed or covered when not in use and are emptied on a regular basis. Dumpsters are kept in good condition and are repaired or replaced if needed by Roads & Grounds. Recycle bins for damaged metal furniture are taken to MRF and emptied on a regular basis.

### 3.1.2 Good Housekeeping

Good housekeeping practices specifically applicable to the prevention of stormwater contamination include the following measures: 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 raw metal material is off the ground on storage racks and covered. Vehicle and forklift parking areas are inspected for leaks or spills as well as storage areas containing oil-filled equipment and the secondary containment unit for lead acid battery storage. The entire site, including loading areas and outfalls, are inspected for floatable debris, garbage, waste and all other potential pollutants. Dumpsters and cardboard recycle bins are emptied on a weekly or as-needed basis by Roads and Grounds. The spill clean-up process is identified in Section 3.1.4 of this SWPPP.

### 3.1.3 Maintenance

Control measures at the facility are kept in effective operating condition by the implementation of scheduled preventive maintenance, standard operating procedures (SOPs), engineering guidance, and manufacturer's specifications as applicable. Preventative maintenance of stormwater controls is documented by using the log in Attachment 10. If control measures need to be replaced or repaired to maintain compliance with the 2015 MSGP, necessary modifications are made according to the timelines specified in the *Corrective Action and Deadlines* requirements of Section 6.0 of this SWPPP.

Deficient items identified during monthly routine facility Inspections, walk-downs or by any other means of identification, are documented on the routine facility inspection forms and entered into the MSGP CAR database. The condition requiring corrective action remains 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 this SWPPP.

#### **PMs before and during monitoring season (March-October):**

- Metallox Wattles are replaced every 3 months or sooner if needed (typically in March-April, June-July, and September-October).
- Outfall culverts and drainages are inspected monthly and after rain events and are cleaned out monthly or sooner if needed. Torn gravel bags at outfall areas are replaced immediately after discovery.
- Lot sweeping is performed monthly by the vacuum sweeper. In the event the sweeper is down for repair, sweeping will occur as soon as equipment is functional and able to be scheduled. Areas inaccessible by the sweeper are hand swept, as needed.

All scheduled maintenance is logged in the SWPPP in Attachment 10.

#### 3.1.4 Spill Prevention and Response

Spills, leaks, or releases are prevented and minimized by the application of good housekeeping procedures, BMPs, and engineering/administrative controls. Containers that could be susceptible to spillage or leakage are plainly labeled (e.g., "Used Oil," "Spent Solvents," etc.) to encourage proper handling and facilitate rapid response if spills or leaks from these containers should occur. Spill cleanup materials are located in Bldg. TA-60-2 and are readily accessible to Salvage/Warehouse personnel in the event of a spill or leak.

In general, the approach to spill cleanup is to secure the spill area and contact the Site Manager, Operations and Maintenance Coordinator (OMC) and/or Emergency Management Division-Emergency Response (EMD-ER) (if necessary). For incidental releases, Micro-Blaze® or dry absorbents can be used and the contaminated absorbents 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 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, the 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 CAR database in accordance with EPC-CP-QP-022, *MSGP Corrective Actions* found in Attachment 17. In addition, the completion of an Unplanned Release Report is required in the event of a spill, for documentation and reporting purposes. The spill 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 regarding the type of reporting required. The EPC-CP procedure for spill reporting and response, ENV-CP-QP-007, *Spill Investigations*, can be found in Attachment 22 of this SWPPP.

#### 3.1.5 Erosion and Sediment Control

Eighty percent of the outside surface region associated with the facility, except for areas adjacent to the south, east and north fenced boundaries and the storage area for treated utility poles, contains structures or is paved with asphalt or concrete; therefore, erosion and sediment transport from the site itself is unlikely. BMPs are installed at outfalls to function as flow dissipation devices (see 3.1.6), which minimize the potential for erosion at facility discharge points. The northeastern discharge point at Outfall 028 is channelized and contains gabions at the outfall to prevent erosion. Outfall 027 contains an asphalt swale that directs stormwater discharge to rip rap and a rock check dam to slow the discharge.

### 3.1.6 Management of Runoff

The majority of stormwater runoff from outdoor activity areas at the facility is captured by one of the 4 outfalls and associated drainage areas. The following runoff control measures are installed or utilized on site:

- **Asphalt millings/earthen berm**  
The asphalt millings/earthen berm along a portion of the southern and most of the eastern portion of the facility prevents runoff from leaving the site and directs runoff from the southeastern portion of the site to Outfall 026.
- **A Trench Drain**  
Located at the NE section of the facility, the trench drain captures a majority of the runoff from the east yard and directs it offsite towards a stabilized channel at Outfall 028.
- **Metallox Wattles**  
These wattles are used to filter out metal residuals in stormwater runoff. There are currently 2 wattles located before the discharge points at Outfalls 026 and 075, and one at Outfall 027.
- **Straw Wattles**  
Several straw wattles are located behind the TA-60-03 canopy structure to prevent sediment migration and helps direct runoff to Outfalls 026 and 027.
- **Gravel Bags & Eco-Blocks**  
Gravel bags were added to slow stormwater flow at Outfalls 026 & 027. Eco-Blocks are used to direct stormwater flow.
- **Angular Rock Rip Rap**  
Rip rap is located at Outfalls 027, 026 and 075 to stabilize the drainage area, slow stormwater flow and filter out sediment.
- **Rip Rap Berm**  
A Rip rap berm is located at 075 to stabilize the drainage area, help retain sediment, and slow stormwater flow.

See the site map in Figure B-1 or outfall information provided in Section 1.3 of this SWPPP for more detailed information on drainage patterns and control measures associated with this facility.

### 3.1.7 Salt Storage Piles or Piles Containing Salt

See Section 2.4.

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

Eighty percent of the surface region associated with the facility (except for vegetated areas adjacent to the facility boundary and the utility pole storage area) either contain structures or is paved with asphalt

or concrete. Therefore, dust generation at the facility is minimal and dust suppression is not typically required. Materials that are frequently removed from the facility primarily include equipment for salvage or resale or use throughout the laboratory and is either moved by enclosed truck trailers or flat-bed trailers. Chemical products picked up by Roads and Grounds or Utility crews at the NW loading dock are typically unopened and in original packing or containers. Raw industrial materials are not transported to/from the site. Metal office furniture (that is damaged or not reusable) is picked up by the LANL Material Recycling Facility (MRF) on a regular basis for salvage.

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

The TA-60-02 Salvage/Warehouse is classified under **Sector P- Land Transportation and Warehousing** and does not meet the industrial category requirements for effluent monitoring as listed in Part 2.1.3 (*Table 2-1 Applicable Effluent Limitations Guidelines*) of the 2015 MSGP.

### **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's (2020) monitoring requirements, constituents and regulatory standards. Refer to Section 4.7 for specific actions that are taken when a water quality standard is exceeded.

Stormwater from the TA-60-02 Salvage/Warehouse discharges to Sandia Canyon. Certain stream reaches within Sandia Canyon have been identified as impaired waters by the NMED Surface Water Quality Bureau (SWQB). According to the 2018-2020 State of New Mexico Clean Water Act 303b/305b Integrated Report and Final List of Assessed Surface Waters, pollutants causing the impairment are listed as total recoverable Aluminum, PCB (Aroclors), and dissolved Copper. Primary potential pollutant sources have been identified as post development erosion/sedimentation and urban runoff (NMED 2018). EPA has not yet approved or established TMDLs for Sandia Canyon.

## **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 2015 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 and Attachment 10.

### **4.3 Spill Prevention and Response**

See Section 3.1.4 of this SWPPP.

#### **4.4 Erosion and Sediment Control**

See Section 3.1.5 of this SWPPP.

#### **4.5 Employee Training**

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

Per section 2.1.2.8 of the 2015 MSGP, training relevant to the SWPPP 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 and is conducted at least annually. The DEP, DESH Group Leader and PPT members are responsible for ensure all appropriate personnel receive this training and must be trained themselves.

Training activities are documented in accordance with P781-1 *Conduct of Training*. In cases where training is formalized enough to require specific curricula and reoccurrence, the training activity will be recorded in LANL's official U-TRAIN database. Informal briefings, such as those included in group safety meetings are not typically recorded in U-TRAIN. Sign-in sheets are used to document attendance and are kept on file in Attachment 11 of this SWPPP.

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 to be 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 inspections 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 the EPC-CP Program Lead) performs the inspection. EPC-CP performs at least one routine facility inspection a year at the facility.

Routine inspections 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 outfalls(SIOs); 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 facility inspections the following are examined:

- 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 waste or 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 or other qualified personnel identified above, 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 facility inspections to ensure compliance with the SWPPP and MSGP. Completed routine facility inspection forms are provided in Attachment 7 of this SWPPP and meet the requirements listed in the 2015 MSGP (Section 3.1.2).

#### 4.6.2 Quarterly Visual Assessments

Once each quarter (April 1-May 31, June 1-July 31, August 1-September 30, October 1-November 30) 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 must 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 practical 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.

Exceptions to visual assessments include the following:

- Document rationale if a visual assessment is unable to be collected in a quarter (no precipitation event or adverse conditions, etc.); and
- Perform one quarterly assessment during snow melt discharge (taken during a measurable discharge from the site).

For facilities with SIOs, quarterly visual assessments may be performed at only one of the outfalls, provided that you perform visual assessments on a rotating basis at each SIO.

The PPT or other qualified person performing the visual assessment documents potential stormwater pollution problems that were observed during the assessment on the quarterly visual assessment form (Attachment 8). 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 2015 MSGP (Part 3.2.2).

#### **4.7 Monitoring**

Analytical monitoring comprised of Impaired Waters monitoring is performed annually on stormwater discharges from the site. Monitoring occurs when storm events result in an actual discharge from the site and follow the preceding measurable storm event by at least 72 hours (3 days), unless documented that the storm event is representative of local storm events during the sampling period. For runoff from snowmelt, the monitoring is performed at a time when a measurable discharge from the site occurs.

Monitoring is conducted according to test procedures approved under 40 CFR Part 136. Runoff samples are collected by taking a minimum of one grab sample from a discharge, collected within the first 30 minutes of a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of a measurable storm event, the sample will be 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 samples according to the relevant monitoring schedule, a substitute sample will be collected during the next qualifying storm event or as soon as practical.



Monitoring occurs at automated samplers **MSGP02601** (Outfall 026) and **MSGP07501** (Outfall 075) as identified in Section 1.5. Discharge from the facility is east to Sandia Canyon (impaired waters), which is a tributary of the Rio Grande located approximately 8 miles east of the facility.

Outfalls 027 and 028 are “substantially identical” to Outfall 026 based on common potential pollutant sources, drainage areas, activities within the drainage areas and general site topography and characteristics. Outfall locations are shown on the site map provided in Figure B-1.

Monitoring will continue annually for constituents associated with impaired waters until a constituent is no longer detected in stormwater samples. If the impaired water constituent value exceeds the New Mexico Water Quality criterion, the PPT will:

- Review the selection, design, installation, and implementation of control measures to determine if modifications are necessary to meet the effluent limits;
- Implement the necessary modifications within the timeframe specified for corrective action; and
- Continue annual monitoring of the constituent (as required by Section 6.2.4.1 of the 2015 MSGP).

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

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

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

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

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

The annual impaired water pollutants to be sampled can change yearly based on the requirements of the MSGP. The Sampling and Analysis plan is updated each year.

The table on the following page lists the current Summary of Monitoring Requirements at the TA-60-2 Salvage/Warehouse. 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 New Mexico Administrative Code (NMAC); and as set forth in Part 9.6.2.1 of the 2015 MSGP.

### Summary of Monitoring Requirements

Outfalls: 026 and 075

Required monitoring for Calendar Year 2021

Outfall	Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte	Filtered/Unfiltered	Regulatory Standard	Units	Regulatory Standard Type	Regulatory Standard Reference
026	Impaired Waters	-	NM-9000.A_047	Al	F10u <sup>1</sup>	1010	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
	Impaired Waters	-	NM-9000.A_047	Cu	F <sup>2</sup>	7	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
	Quarterly Benchmark	P	No Benchmark Monitoring Required						
075	Impaired Waters	-	NM-9000.A_047	Al	F10u <sup>1</sup>	1010	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
	Impaired Waters	-	NM-9000.A_047	Cu	F <sup>2</sup>	7	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
	Quarterly Benchmark	P	No Benchmark Monitoring Required						

<sup>1</sup>F10u – 10 µm filter

<sup>2</sup>F - 0.45 µm filter

## 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 monitor stormwater pollution prevention compliance at the 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 5.2.2 of the 2015 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-17-29454) was last updated in October 2017 (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 August, 2015 and December 2008, the Cultural Resources Team (using GPS spatial data as well as conducting visual inspections), reviewed the Laboratory industrial sites (see list below) and their associated outfalls and monitoring stations subject to the 2015 Multi-Sector General Permit (Permit #NMR050000) 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-3-22 Power and Steam Plant
- TA-3-38 Metals Fabrication Shop
- TA-3-38 Carpentry Shop
- TA-3-39 and 102 Metal Shop
- TA-3-66 Sigma Complex
- TA-60 Asphalt Batch Plant
- TA-60-1 Heavy Equipment Yard
- TA-60 Material Recycle Facility
- TA-60 Roads and Grounds
- TA-60-2 Warehouse
- TA-54 RANT

## 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) is reviewed and revised (as appropriate). The purpose is to ensure that the effluent limits of the 2015 MSGP permit are met and pollutant discharges are minimized:

- 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;
- Control measures are not stringent enough for the discharge to meet applicable water quality standards or non-numeric effluent limits;
- 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 of the 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. **Note:** *Benchmark monitoring is currently not required for the facility.*
- If an impaired water constituent exceeds the New Mexico Water Quality criterion (see Section 4.7).

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

### 6.2 Subsequent Actions

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

provided justification of why actions will exceed the timeframe; and a minimal amount of additional time to complete the work may be approved.

### 6.3 Corrective Action Documentation

Upon discovery, required corrective actions are documented by the DEP or EPC-CP on a routine facility inspection form and/or entered into the CAR database. The action is kept open in the database until the issue has been resolved. Documentation of maintenance and repairs of stormwater control measures (BMPs) are kept in Attachment 10 of this SWPPP. Where corrective actions result in changes to procedures or controls documented in this SWPPP, modifications to the SWPPP are made accordingly within 14 days of completing the corrective action(s). LANL procedure, EPC-CP-QP-022 *MSGP Corrective Actions*, can be found in Attachment 17.

## 7.0 ACRONYMS

BMPs: Best Management Practices

CAR: Corrective Action Report

DO: Division Office

DEP: Deployed Environmental Professional

DESH: Deployed Environmental Safety and Health

EIS: Environmental Impact Statement

EPC-CP: Environmental Protection and Compliance – Compliance Programs

FOD: Facilities Operations Directorate

GSA: General Services Administration

IPaC: Information for Planning and Consultation

LOG-HERG: Logistics - Heavy Equipment Roads & Grounds

MSGP or Permit: Multi Sector General Permit

NMAC: New Mexico Administrative Code

NMED: New Mexico Environment Department

NOI: Notice of Intent

NPDES: National Pollutant Discharge Elimination System

PPT: Pollution Prevention Team

SWPPP: Stormwater Pollution Prevention Plan

UI-DO: Utilities and Institutional Facilities-Division Office

URL: Uniform Resource Locator

## 8.0 SWPPP CERTIFICATION

### STORMWATER POLLUTION PREVENTION PLAN

TA-60-02 Salvage/Warehouse  
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 submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

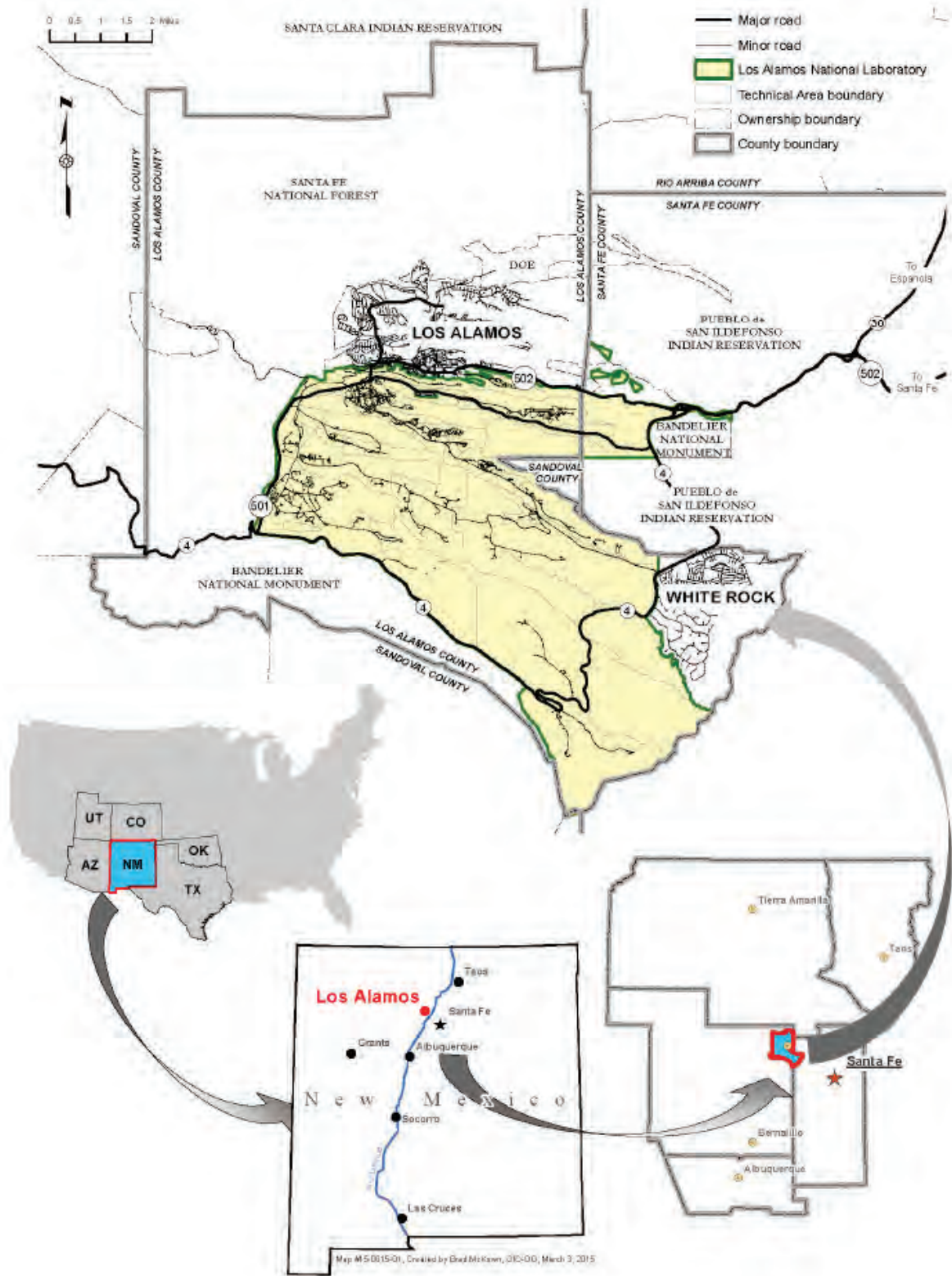
Signature BRIAN WATKINS (Affiliate) Digitally signed by BRIAN WATKINS (Affiliate)  
Date: 2021.02.02 08:32:33 -07'00'

Date \_\_\_\_\_

**Brian Watkins**

LOG-DIV Operations Manager 6

FIGURE A: GENERAL LOCATION MAP



**FIGURE B-1: FACILITY SITE MAP**



TA-60-2 WAREHOUSE  
SITE MAP

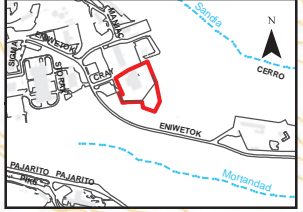
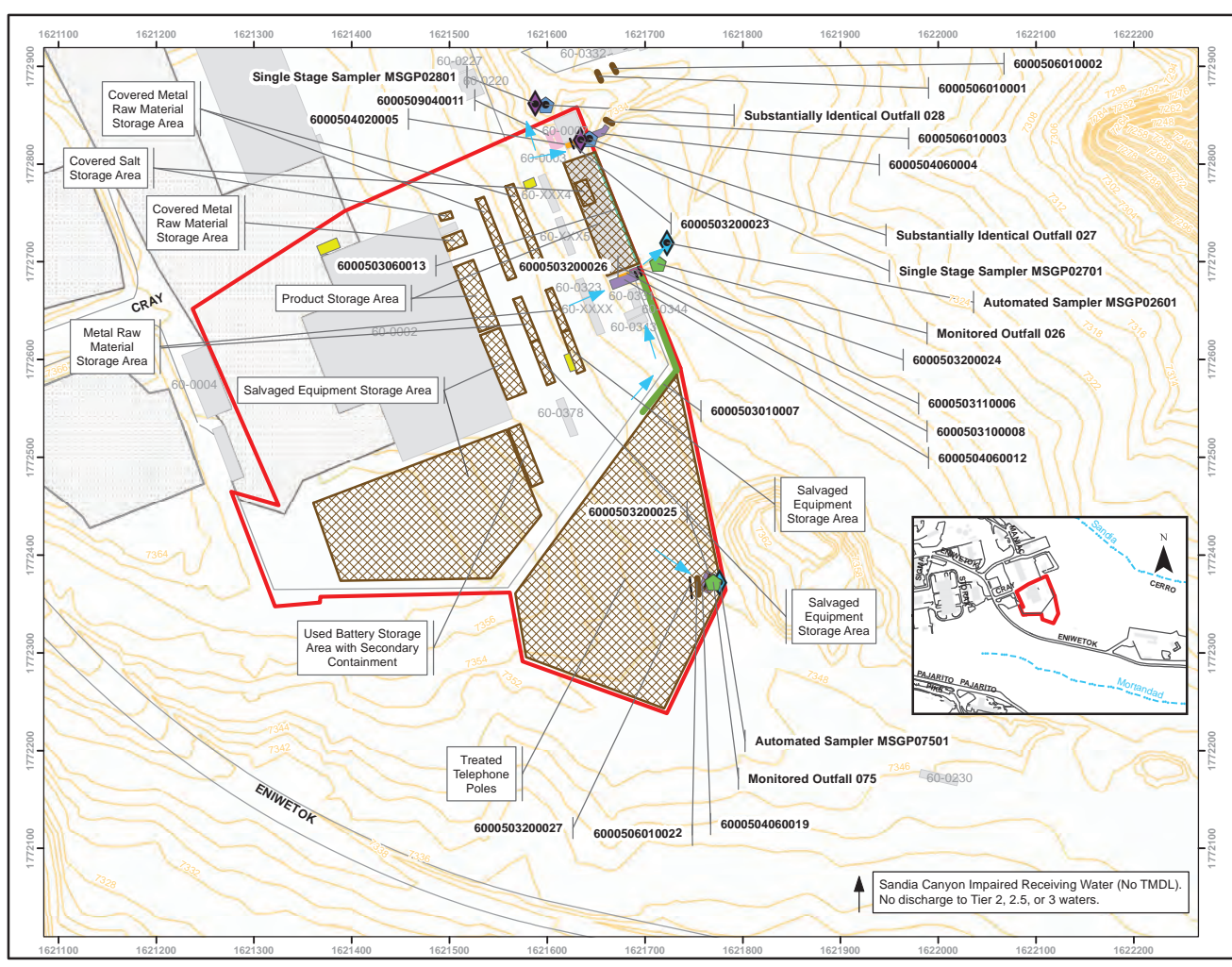
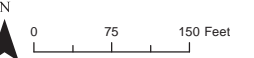
- Automated Sampler
- Single Stage Samplers
- Monitored Outfall
- Substantially Identical Outfall
- Drain Inlet
- Earthen Berm
- EnviroSoxx w/ MetalLoxx
- Gravel Bags
- Rock Check Dam
- Straw Wattle
- Trench Drain
- Drainage
- Paved Roads
- 2 ft Contour
- Boundary of Industrial Activity
- Asphalt Swale
- Eco-Blok
- Rip Rap
- Industrial Activity Areas
- Dumpster
- LANL Structures
- Paved Parking Lot
- Flow Direction

4.7 Acres, 80% Impervious Surface.  
Note - No Critical Habitat Areas.

Map number: 16-0015-TA-60-2 Warehouse  
Map created by: Ben Suter, JFPRG  
Updated: September 16, 2020  
Version 8

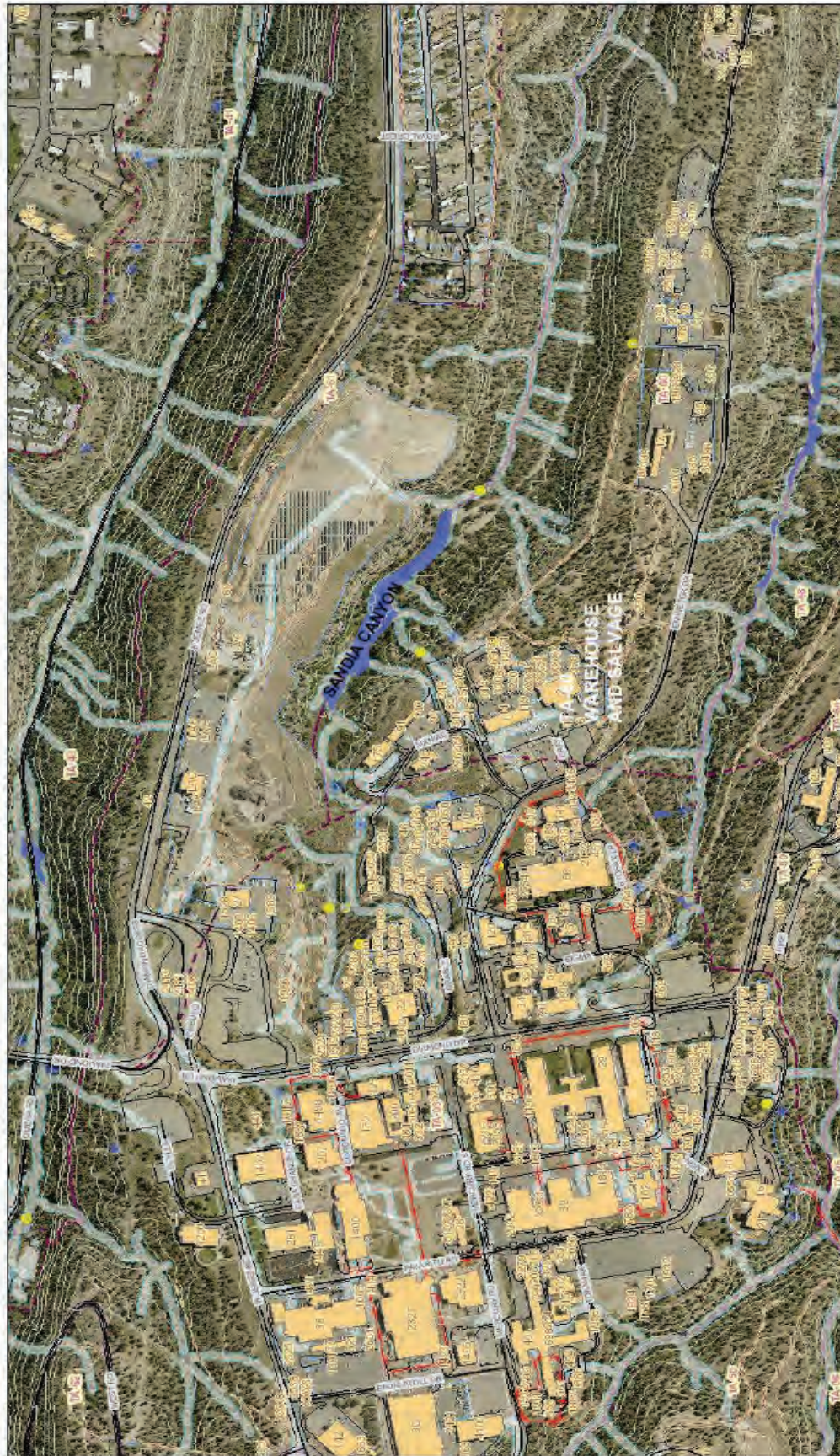
New Mexico State Plane Coordinate System Central Zone  
(3002)  
North American Datum, 1983 (NAD 83)  
US Survey Ft

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.



**FIGURE B-2: NEARBY RECEIVING WATERS**





**FIGURE B-3: LANL ENDANGERED SPECIES MAP**



# Endangered Species Habitat Within Los Alamos National Laboratory



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





***Environmental Protection & Compliance Division  
Compliance Programs Group (EPC-CP)***

Los Alamos National Laboratory  
PO Box 1663, K491  
Los Alamos, NM 87545  
505-667-2211

Symbol: EPC-DO: 20-275  
LA-UR: 20-26620  
Date: **JAN 18 2021**

Stormwater Notice Processing Center  
William Jefferson Clinton East Building – Room 7420  
ATTN: 2015 MSGP Signature Agreement  
U.S. Environmental Protection Agency  
1201 Constitution Avenue, NW  
Washington, DC 20004

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking  
No. NMR050013, Multi-Sector General Permit (MSGP) Change Notice of  
Intent (Change NOI) Reporting Pursuant to Part 7.4**

To Whom It May Concern:

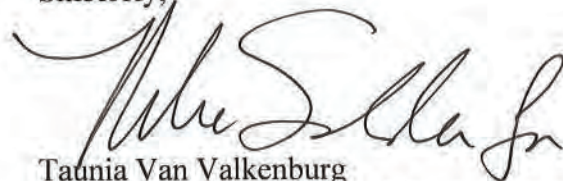
This letter serves to submit Change NOI information to remove three substantially identical outfalls from permit coverage related to MSGP Permit Tracking No. NMR050013 for Triad National Security, LLC (Triad) as the operator for Los Alamos National Laboratory pursuant to Part 7.4 of the MSGP.

Environmental Protection Agency's (EPA) Electronic Reporting Rule requires that NOIs be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to system limitations previously identified by Triad and verified with EPA Region 6 personnel, a complete and accurate NOI could not be created in NeT-MSGP. Therefore, Change NOI information cannot be submitted using NeT-MSGP (Attachment 1). As a result, Triad was granted a waiver to submit paper NOI forms from Nasim Jahan (EPA Region 6) on September 26, 2018 (Attachment 2).

To accurately update the NOI and to facilitate complete and accurate information in NetDMR, Triad is submitting a paper NOI on EPA Form 3510-6 (Attachment 3).

Your assistance is greatly appreciated as Triad is committed to maintaining compliance with the MSGP requirements. If you have any questions, please contact Terrill Lemke (505) 665-2397 or Leslie Dale (505) 606-2371.

Sincerely,



Taunia Van Valkenburg  
Environmental Protection & Compliance Division  
Compliance Programs  
Triad National Security, LLC

TVV/TWL/LJD:jdm

Attachment(s): Attachment 1 EPA Guidance to Submit Change NOI Information via EPA Form 3510-6  
Attachment 2 EPA Region 6 Approval for Triad National Security, LLC to Submit a Paper NOI  
Attachment 3 Change NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit

Copy: Nasim Jahan, EPA Region 6, [jahan.nasim@epa.gov](mailto:jahan.nasim@epa.gov)  
Helen Nguyen, EPA Region 6, [nguyen.helen@epa.gov](mailto:nguyen.helen@epa.gov)  
Sarah Holcomb, NMED/SWQB, [sarah.holcomb@state.nm.us](mailto:sarah.holcomb@state.nm.us)  
Karen E. Armijo, NA-LA, [karen.armijo@nnsa.doe.gov](mailto:karen.armijo@nnsa.doe.gov)  
Maxine M. McReynolds, Triad, GC-ESH, [mcreynolds@lanl.gov](mailto:mcreynolds@lanl.gov)  
Taunia S. Van Valkenburg, Triad, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov)  
Terrill. W. Lemke, Triad, EPC-CP, [tlemke@lanl.gov](mailto:tlemke@lanl.gov)  
Holly L. Wheeler, Triad, EPC-CP, [hbenson@lanl.gov](mailto:hbenson@lanl.gov)  
Leslie J. Dale, Triad, EPC-CP, [leslie@lanl.gov](mailto:leslie@lanl.gov)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov)



## **Attachment 1**

EPA Guidance to Submit Change NOI Information via EPA  
Form 3510-6

EPC-DO: 20-275

LA-UR-20-26620

Date: JAN 18 2021

**From:** [Emily Hack \(Avanti\) \(EPA NeT Support\)](#)  
**Cc:** [Jahan Nasim](#); [Wheeler, Holly Lynn](#); [Dale, Leslie J](#); [Hazen, Michael W](#)  
**Subject:** NMR050013 - Triad National Security LLC - MSGP Notice of Intent  
**Date:** Friday, October 26, 2018 11:13:07 AM  
**Attachments:** [NMR050013\\_Triad\\_Los Alamos National Laboratory\\_2015 MSGP NOI Acknowledgement.pdf](#)  
[Triad National Security LLC\\_Los Alamos National Laboratory\\_10-02-2018.pdf](#)

---

✉ Please type your reply above this line ✉

You are CC'ed on this support request (10066). Reply to this email to add a comment to the request.

**Emily Hack (Avanti) (EPA NeT Support)**

Oct 30, 11:12 AM

Good afternoon,

The paper Notice of Intent (NOI) submitted under EPA's Multi-Sector General Permit (MSGP) for Los Alamos National Laboratory under Triad National Security LLC has been processed by the EPA NPDES eReporting Help Desk. The facility was assigned NPDES ID NMR050013. Please, retain the attached acknowledgement letter for your records.

Due to the unique nature of the outfall sequence and monitoring requirements, EPA instructed that we enter the NOI directly into the back-end system. Therefore, the NOI will not be generated in the NeT MSGP program at this time. Attached is the NOI that we received. As I'm sure you are aware, for any changes to the NOI in the future, please submit them via paper as well.

Please, let me know if you have any questions.

Sincerely,

Emily Hack  
NPDES eReporting Help Desk  
Staffed by Avanti Corporation  
1-877-227-8965  
[NPDESeReporting@epa.gov](mailto:NPDESeReporting@epa.gov)

This email is a service from EPA NeT Support. Delivered by [Zendesk](#)

## **Attachment 2**

EPA Region 6 Approval for Triad National Security, LLC to  
Submit a Paper NOI

EPC-DO: 20-275

LA-UR-20-26620

Date: JAN 18 2021

**Dale, Leslie J**

---

**From:** Lemke, Terrill W  
**Sent:** Wednesday, September 26, 2018 4:16 PM  
**To:** Dolan, Timothy Aloysius; Dale, Leslie J; Wheeler, Holly Lynn  
**Subject:** FW: Request for LANL Paper MSGP NOI Waiver

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

FYI

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

**From:** Jahan, Nasim <Jahan.Nasim@epa.gov>  
**Sent:** Wednesday, September 26, 2018 2:43 PM  
**To:** Lemke, Terrill W <tlemke@lanl.gov>  
**Cc:** Emily Gorman <emily@avanticorporation.com>  
**Subject:** RE: Request for LANL Paper MSGP NOI Waiver

Dear Mr. Terrill:

EPA, Region 6 is approving your request for paper submission as the facility is unable to submit the NOI online.. Please mail the hardcopies to the following address:

**For Regular U.S. Mail Delivery:**

Stormwater Notice Processing Center  
Mail Code 4203M, ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

- **For Overnight/Express U.S. Mail Delivery:**

Stormwater Notice Processing Center  
William Jefferson Clinton East Building – Room 7420  
ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1201 Constitution Avenue, NW  
Washington, DC 20004

Thank you,

*Nasim Jahan*



Environmental Engineer  
Permits and Technical Section (6WQ-PP)  
EPA Region 6 Water Quality Protection Division  
1445 Ross Avenue, Ste. 1200  
Dallas, TX 75202-2733  
Phone: 214.665.7522  
Fax: 214.665.2191

**From:** Lemke, Terrill W [<mailto:tlemke@lanl.gov>]  
**Sent:** Wednesday, September 26, 2018 3:30 PM  
**To:** Jahan, Nasim <[Jahan.Nasim@epa.gov](mailto:Jahan.Nasim@epa.gov)>  
**Cc:** Dale, Leslie J <[leslie@lanl.gov](mailto:leslie@lanl.gov)>; Dolan, Timothy Aloysius <[tdolan@lanl.gov](mailto:tdolan@lanl.gov)>  
**Subject:** Request for LANL Paper MSGP NOI Waiver

Nasim,

Thank you for speaking with us today. We've had the opportunity to review the changes implemented in the updated NeT-MSGP system that rolled out earlier this year, and have identified the following issues as problematic for submitting an accurate and complete electronic NOI.

A new NOI must be submitted for Triad National Security, LLC (Triad) as a new operator for Los Alamos National Laboratory (LANL) pursuant to Part B.12.C of the 2015 MSGP. Triad is replacing Los Alamos National Security, LLC (LANS) as operator of LANL effective November 1, 2018. Per the schedule in Table 1-2 of the MSGP, Triad's NOI must be submitted by October 2, 2018.

EPA's Electronic Reporting Rule requires that NOIs be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to the following system limitations previously identified by LANS and coordinated by EPA Region 6 personnel, a complete and accurate NOI cannot be submitted using NeT-MSGP.

1. Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, requires that benchmark values be modified to reflect New Mexico water quality standards for facilities in New Mexico, based on benchmark values from the Standards for Interstate and Intrastate Surface Waters (20.6.4.900 New Mexico Administrative Code [NMAC]). These modified benchmark values are not recognized by NeT-MSGP and populated in NetDMR.
2. The 2018-2020 State of New Mexico Clean Water Act §303(d)/ §305(b) Integrated Report requires monitoring of impaired waters pollutants not available for selection in NeT-MSGP (e.g., Adjusted Gross Alpha and Temperature).
3. 20.6.4.900 NMAC requires monitoring of certain modified benchmark and impaired waters metals pollutants as dissolved species, which are not available for selection in NeT-MSGP. Currently, only total metals species may be assigned in NeT-MSGP.
4. Due to extended frozen conditions during the winter and a semi-arid climate, Triad will implement an alternative monitoring period of four (4) two-month monitoring quarters for benchmark values as identified below, in accordance with Part 6.1.6 of the 2015 MSGP. This alternate monitoring schedule does not coincide with the default four (4) three-month quarters listed in Part 6.1.7 of the 2015 MSGP and NeT-MSGP does not allow input of an alternate monitoring schedule. Accordingly, annual impaired waters and Effluent Limitation Guideline monitoring will be conducted between April 1 and November 30 of each year.

April 1 through May 31  
June 1 through July 31  
August 1 through September 30

October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Therefore, per your verbal direction, we are requesting a waiver for Triad to submit a paper NOI in lieu of submitting an inaccurate and incomplete NOI in NeT-MSGP. Please advise at your earliest convenience if you concur with our submittal of a paper NOI, as we must submit by Oct 2.

We appreciate your assistance in helping us maintain compliance. If you have any questions, please contact me at (505) 665-2397.

Terrill

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

### **Attachment 3**

Change NOI for Stormwater Discharges Associated with  
Industrial Activity under the NPDES Multi-Sector General  
Permit

EPC-DO: 20-275

LA-UR-20-26620

Date: JAN 18 2021



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

Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in Section C of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi-Sector General Permit (MSGP) permit number identified in Section B of this form. Submission of this NOI also constitutes notice that the operator identified in Section C of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility identified in Section D of this form. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage. Refer to the instructions at the end of this form to complete your NOI.

**A. Approval to Use Paper NOI Form**

1. Have you been granted a waiver from electronic reporting from the EPA Regional Office\*? ☒ YES ☐ NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

Waiver granted: ☐ The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.

☒ The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver: N a s i m J a h a n

Date approval obtained: 09 / 26 / 2018 Note: This form is submitting Change NOI information. Modified items/sections are highlighted.

\* Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper NOI form. If you have not obtained a waiver, you must file this form electronically using the NPDES eReporting Tool (NeT) at <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>

**B. Permit Information**

NPDES ID (EPA Use Only): NMR050013

1. Master Permit Number:  (see Appendix C of the MSGP for the list of eligible master permit numbers)

2. Are you a new discharger or a new source as defined in Appendix A? ☐ YES ☐ NO (If yes, skip to Part C of this form).

3. If you are not a new discharger or a new source, have stormwater discharges from your facility been covered previously under an NPDES permit?

☐ YES ☐ NO

If yes, provide the NPDES ID if you had coverage under EPA's 2008 MSGP or the NPDES ID if you had coverage under an EPA individual permit:

**C. Facility Operator Information**

1. Operator Information:

Operator Name:

Mailing Address:

Street:

City:  State:  ZIP Code:  -

County or Similar Government Subdivision:

Phone:  -  -  Ext.

E-mail:

2. Operator Point of Contact Information:

First Name, Middle Initial, Last Name:

Title:

3. NOI Preparer Information (Complete if NOI was prepared by someone other than the certifier):

First Name, Middle Initial, Last Name:

Organization:

Phone:  -  -  Ext.

E-mail:



**D. Facility Information**

1. Facility Name:

2. Facility Address:  
Street/Location:

City:  State:  ZIP Code:  -

County or Similar Government Subdivision:

3. Latitude/Longitude for the facility:  
Latitude:  ° N (decimal degrees) Longitude:  ° W (decimal degrees)  
Latitude/Longitude Data Source: ☐ Map ☐ GPS ☐ Other  
If you used a USGS topographic map, what was the scale?

Horizontal Reference Datum: ☐ NAD 27 ☐ NAD 83 ☐ WGS 84

4. Is your facility located on Indian Country lands? ☐ YES ☐ NO  
If yes, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable):

5. Are you requesting coverage under this NOI as a "federal operator" as defined in Appendix A? ☐ YES ☐ NO

6. What is the ownership type of the facility?  
☐ Federal Facility (U.S. Government) ☐ Privately Owned Facility ☐ Municipality ☐ County Government  
☐ Corporation ☐ State Government ☐ Tribal Government ☐ School District  
☐ District ☐ Mixed Ownership (e.g. Public/Private) ☐ Municipal or Water District

7. Estimated area of industrial activity at your facility exposed to stormwater:  (to the nearest quarter acre)

8. Sector-Specific Information  
Identify the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in the MSGP, and the applicable sector and subsector of your primary industrial activity (See Appendix D):  
Primary SIC Code:     OR Primary Activity Code:    
Sector:  Subsector:

Identify the applicable sector(s) and subsector(s) of any co-located industrial activity for which you are requesting permit coverage:  
Sector:  Subsector:   Sector:  Subsector:   Sector:  Subsector:    
Sector:  Subsector:   Sector:  Subsector:   Sector:  Subsector:

If you are a Sector S (Air Transportation) facility, do you anticipate using more than 100,000 gallons of pure glycol in glycol-based deicing fluids and/or 100 tons or more of urea on an average annual basis? ☐ YES ☐ NO

If you are a Sector G (Metal Mining) facility, do you have discharges from waste rock and overburden piles? ☐ YES ☐ NO

Check the type of ore you mine at your facility: ☐ Tungsten Ore ☐ Nickel Ore ☐ Aluminum Ore  
☐ Mercury Ore ☐ Iron Ore ☐ Platinum Ore ☐ Titanium Ore ☐ Vanadium Ore ☐ Molybdenum ☐ Uranium, Radium, and/or Vanadium Ore

9. Is your facility presently inactive and unstaffed? ☐ YES ☐ NO  
\* Note that if your facility becomes inactive and unstaffed during the permit term, you must submit an NOI modification to reflect the change.

**E. Discharge Information**

1. By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.1.3. 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 1.1.2 and 1.1.3 will be discharged, they must be covered under another NPDES permit. ☐ YES

2. Federal Effluent Limitation Guidelines  
Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? ☐ YES ☐ NO



If yes, which effluent limitation guidelines apply to your stormwater discharges?

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Check if Applicable
Part 411, Subpart C	Runoff from material storage piles at cement manufacturing facilities	E	2/20/1974	<input type="checkbox"/>
Part 418 Subpart A	Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	C	4/8/1974	<input type="checkbox"/>
Part 423	Coal pile runoff at steam electric generating facilities	O	11/19/1982 10/8/1974 <sup>1</sup>	<input type="checkbox"/>
Part 429, Subpart I	Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	A	1/26/1981	<input type="checkbox"/>
Part 436, Subpart B, C, or D	Mine dewatering discharges at crushed stone mines, construction sand and gravel mines, or industrial sand mines.	J	N/A	<input type="checkbox"/>
Part 443, Subpart A	Runoff from asphalt emulsion facilities	D	7/28/1975	<input type="checkbox"/>
Part 445, Subparts A & B	Runoff from hazardous waste and non-hazardous waste landfills	K, L	2/2/2000	<input type="checkbox"/>
Part 449	Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	S	6/15/2012	<input type="checkbox"/>

<sup>1</sup> NSPS promulgated in 1974 were not removed via the 1982 regulation; therefore wastewaters generated by Part 423-applicable sources that were New Sources under the 1974 regulations are subject to the 1974 NSPS.

3. **Receiving Waters Information:** (Attach a separate list if necessary)

List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002). Also provide the latitude and longitude in degrees decimal for each outfall.		For each outfall, provide the following receiving water information:		
		Provide the name of the first water of the U.S. that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to:	If the receiving water is impaired (on the CWA 303(d) list), list the pollutants that are causing the impairment:	If a TMDL been completed for this receiving waterbody, providing the following information:
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
Outfall ID	006	Sandia Canyon (Sigma Canyon to NPDES outfall 001)		TMDL Name and ID:
Latitude		Remove SIO from permit coverage effective June 18, 2020.		Pollutant(s) for which there is a TMDL:
Longitude				
If substantially identical to other outfall, list identical outfall ID: 005				

Outfall ID	007	Sandia Canyon (Sigma Canyon to NPDES outfall 001)  Remove SIO from permit coverage effective June 18, 2020.		TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantially identical to other outfall, list identical outfall ID: 009				
Outfall ID	041	Mortandad Canyon (within LANL)  Remove SIO from permit coverage effective July 22, 2020.		TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantially identical to other outfall, list identical outfall ID: 042				
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				





B. List the pollutant(s) or pollutant constituent(s) associated with each industrial activity exposed to stormwater that could be discharged in stormwater and any authorized non-stormwater discharges listed in Part 1.1.3:

C. Describe the control measures you will employ 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 (see Part 5.2.4):

D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2):

#### G. Endangered Species Protection

1. Using the instructions in Appendix E of the MSGP, under which endangered species criterion listed in Part 1.1.4.5 are you eligible for coverage under this permit (only check 1 box)?\*

☐ A ☐ B ☐ C ☐ D ☐ E

\* Note: After you submit your NOI and before your NOI is authorized, EPA may notify you if any additional controls are necessary to ensure your discharges have no likely adverse effects on listed species and critical habitat.

2. Provide a brief summary of the basis for the criterion selected in Appendix E (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service to determine no species in action area; implementation of controls approved by EPA and the Services):

3. If you select criterion B, provide the NPDES ID from the other operator's NOI authorized under this permit:

--	--	--	--	--	--	--	--	--	--

4. If you select criterion C, you must answer the following questions:

a. What federally-listed species or designated critical habitat are located in your "action area":

--	--	--	--	--	--	--	--	--	--

b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions:

☐ I submitted my completed *Criterion C Eligibility Form* to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse effects on listed species and critical habitat.

Date your *Criterion C Eligibility Form* was sent to EPA: 

--	--	--	--	--	--	--	--	--	--

 / 

--	--	--	--	--	--	--	--	--	--

 / 

--	--	--	--	--	--	--	--	--	--

Describe any EPA-approved measures you will implement to ensure no likely adverse effects on listed species and critical habitat:

--	--	--	--	--	--	--	--	--	--

☐ I submitted my completed *Criterion C Eligibility Form* to EPA at least 30 days prior to submitting this NOI and have not been notified of any additional measures necessary to ensure no likely adverse effects on listed species and critical habitat.

Date your *Criterion C Eligibility Form* was sent to EPA: 

--	--	--	--	--	--	--	--	--	--

 / 

--	--	--	--	--	--	--	--	--	--

 / 

--	--	--	--	--	--	--	--	--	--

5. If you select criterion D or E, you must attach copies of any letters or other communications with the U.S. Fish and Wildlife Service or National Marine Fisheries Service.



#### H. Historic Preservation

1. If your facility is not located on Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe?

☐ YES ☐ NO

If yes, provide the name of the Indian tribe associated with the property: \_\_\_\_\_

2. Using the instructions in Appendix F of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.6 are you eligible for coverage under this permit (only check 1 box)?

☐ A ☐ B ☐ C ☐ D

#### I. 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: J e n n i f e r      E      P a y n e

Title: D i v i s i o n   L e a d e r

Signature:

Date: 01 / 18 / 2021

E-mail: j p a y n e @ l a n l . g o v



*Environmental Protection & Compliance Division*

**Los Alamos National Laboratory**

PO Box 1663, K491

Los Alamos, New Mexico 87545

505-667-2211

Symbol: EPC-DO: 20-042

LAUR: 20-21438

Date: **MAR 20 2020**

Stormwater Notice Processing Center  
William Jefferson Clinton East Building – Room 7420  
ATTN: 2015 MSGP Signature Agreement  
U.S. Environmental Protection Agency  
1201 Constitution Avenue, NW  
Washington, DC 20004

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Change Notice of Intent (Change NOI) Reporting Pursuant to Part 7.4**

To Whom It May Concern:

This letter serves to submit Change NOI information to add outfalls and monitoring requirements and to submit an exceedance report (Attachment 1) for numeric effluent limitation guideline exceedances related to MSGP Permit Tracking No. NMR050013 for Triad National Security, LLC (Triad) as the operator for Los Alamos National Laboratory pursuant to Part 7.4 of the MSGP.

Environmental Protection Agency's (EPA) Electronic Reporting Rule requires that NOIs be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to system limitations previously identified by Triad and verified with EPA Region 6 personnel, a complete and accurate NOI could not be created in NeT-MSGP. Therefore, Change NOI information cannot be submitted using NeT-MSGP (Attachment 2). As a result, Triad was granted a waiver to submit paper NOI forms from Nasim Jahan (EPA Region 6) on September 26, 2018 (Attachment 3).

To accurately update the NOI and to facilitate complete and accurate information in NetDMR, Triad is submitting a paper NOI on EPA Form 3510-6 (Attachment 4) and an additional table defining additions to the monitored outfall-specific Sector and impaired waters limits sets (Attachment 5) currently populated in the NetDMR system.



Your assistance is greatly appreciated as Triad is committed to maintaining compliance with the MSGP requirements. If you have any questions, please contact Terrill Lemke (505) 665-2397 or Leslie Dale (505) 606-2371.

Sincerely,



Jennifer Payne  
Division Leader  
Environmental Protection & Compliance Division

TWL/HLW:jdm

Attachment(s): Attachment 1 National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Exceedance Report for Numeric Effluent Limits  
Attachment 2 EPA Guidance to Submit Change NOI Information via EPA Form 3510-6  
Attachment 3 EPA Region 6 Approval for Triad National Security, LLC to Submit a Paper NOI  
Attachment 4 Change NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit  
Attachment 5 NetDMR Monitoring Requirements for Los Alamos National Laboratory, Operated by Triad National Security, LLC, MSGP ID NMR050013

Copy: Nasim Jahan, USEPA, Region 6, [jahan.nasim@epa.gov](mailto:jahan.nasim@epa.gov)  
Helen Nguyen, EPA Region 6, [nguyen.helen@epa.gov](mailto:nguyen.helen@epa.gov)  
Sarah Holcomb, NMED/SWQB, [sarah.holcomb@state.nm.us](mailto:sarah.holcomb@state.nm.us)  
Karen E. Armijo, NA-LA, [Karen.armijo@nnsa.doe.gov](mailto:Karen.armijo@nnsa.doe.gov)  
Michael W. Hazen, Triad, ALDESHQSS, [mhazen@lanl.gov](mailto:mhazen@lanl.gov)  
William R. Mairson, Triad, ALDESHQSS, [wrmairson@lanl.gov](mailto:wrmairson@lanl.gov)  
Enrique Torres, Triad, EWP, [etorres@lanl.gov](mailto:etorres@lanl.gov)  
Taunia Van Valkenburg, Triad, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov)  
Terrill W. Lemke, Triad, EPC-CP, [tlemke@lanl.gov](mailto:tlemke@lanl.gov)  
Holly L. Wheeler, Triad, EPC-CP, [hbenson@lanl.gov](mailto:hbenson@lanl.gov)  
Leslie J. Dale, Triad, EPC-CP, [leslie@lanl.gov](mailto:leslie@lanl.gov)  
Tim Dolan, Triad, GC-ESH, [tdolan@lanl.gov](mailto:tdolan@lanl.gov)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov)



## **Attachment 1**

National Pollutant Discharge Elimination System (NPDES)  
Multi-Sector General Permit (MSGP) Exceedance Report for  
Numeric Effluent Limits

EPC-DO: 20-042

LA-UR-20-21438

Date: MAR 20 2020

**National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP)  
Exceedance Report for Numeric Effluent Limits**

**1. Facility Information**

Permit Tracking #: NMR050013

Permittee: Triad National Security, LLC or Triad

Facility Name: Los Alamos National Laboratory (LANL)

Address: PO Box 1663, MS K490

Los Alamos, NM 87545

Exceedance Location: NPDES Outfall 043 at the TA-60 Asphalt Batch Plant

**2. Description of the Facility**

The industrial activities at this site are classified under Sector D – Asphalt Paving and Roofing Material and Lubricant Manufacturing. The site is 2.3 acres in size and is located within Technical Area (TA) 60 of LANL at the eastern edge of Sigma Mesa. The facility primarily consists of an office trailer for the facility operator and a BDM Model TM2000 Asphalt Plant with associated oil tanks. A natural gas line and two transportainers are also on site. The primary function of the facility is to produce asphalt for LANL by using a “batch” process (as needed per project). The asphalt batch is then transferred to trucks for delivery to project sites.

The facility has a gentle downward grade toward the south-southeast side of the site. Drainage and stormwater flow is also in that direction. Stormwater, in sheet flow and minor concentrated runoff, flows across the facility to a stormwater detention pond located at the southeast corner of the facility boundary. Runoff is discharged to a stormwater monitoring station at the east end of the pond identified as NPDES monitored outfall 043. The detention pond is designed for a 25 year storm event and stormwater rarely discharges through the outfall.

**3. Receiving Waters**

MSGP monitored outfall 043 intermittently discharges into Mortandad Canyon, an ephemeral tributary to the Rio Grande. No adverse impacts were observed.

**4. Description of Exceedance and Monitoring Data**

Analytical results from monitored outfall 043 at the TA-60 Asphalt Batch Plant exceeded the numeric effluent limitation guideline (ELG) daily maximum value of 23.0 mg/L for Total Suspended Solids (TSS) during storm events on 7/25/2019 and 8/7/2019, with values of 141 mg/L and 61 mg/L respectively. The 30-day average of these two values is 101 mg/L, which exceeded the ELG 30-day average limit of 15.0 mg/L. The TSS effluent limits are identified in Part 8.D.4 of the MSGP.

Standard turnaround time for receipt of analytical data is 28 days from the date the sample is received by the analytical laboratory. Therefore, the result of the first TSS sample (and



knowledge of the exceedance) was not available to drive the corrective action process prior to collection of the second TSS sample.

pH also exceeded the numeric ELG daily maximum value during the storm event on 8/7/2019, with an average reading during the storm event of 9.13 standard units (SUs). The ELG daily maximum limit for pH identified in Part 8.D.4 of the MSGP is 9.0 SU. This single pH exceedance is not subject to exceedance reporting per Part 6.2.2.3 of the MSGP; however, since pH was measured in the field, the results were quickly available. The pH exceedance initiated and guided the corrective action process as described in Section 6 below, and is therefore included herein.

#### **5. Site Conditions at Time of Exceedance**

The detention pond had been excavated about a foot down and cleaned out from previous exceedances. Fine sediment flows with the stormwater off the TA-60 Asphalt Batch Plant into the northeast and northwest ends of the detention pond. To minimize the fine sediment Rip-Rap swales were installed on both the northeast and west end of the detention pond. The east end of the detention pond has the only stormwater outfall (043) for the facility. It is suspected that these fines may become re-suspended during discharge of stormwater from the detention pond. Terra-Tubes® were installed at the detention pond discharge point in front of the outfall to trap, filter, and treat sediment laden stormwater runoff through flocculation and are replaced annually or as needed. Stormwater only discharges during infrequent back-to-back low-intensity storm events or short-duration high-intensity events.

#### **6. Steps Taken to Prevent and Eliminate Recurrence**

On 8/13/2019, a discussion with the Environmental Protection and Compliance-Compliance Programs (EPC-CP) Chemist advised a strategy to identify the source of the high pH measurement. On 8/14/2019, a sample of pond sludge was collected and submitted to the analytical laboratory for the following analyses: metals on the solids portion of the sample, and nitrates, ammonia, pH, alkalinity and metals on the liquid portion. On 8/15/2019 a test was performed in the Triad stormwater laboratory in which stormwater was decanted from pond sludge. Deionized water was then added to the solids. A pH measurement was taken on the liquid portion with a calibrated YSI pro10 pH meter. The reading stabilized at 9.04 SU. This test confirmed the pond sludge as the probable source of the elevated pH. On 8/26/19, the elevated pH was confirmed in the sample submitted to the analytical laboratory as 9.3 SU. On 9/24/2019, an excavation permit was submitted to remove the sludge from the retention pond. On 10/10/2019, the corrective actions were completed, removing the source of both elevated pH and TSS from the pond.

#### **7. Facility Contact**

Name: Holly Wheeler  
Phone: (505) 667-1312

**8. Report Certification**

"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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Taunia Van Valkenburg, EPC-CP Group Leader

Signature: 

Date: 3/18/2020

## **Attachment 2**

**EPA Guidance to Submit Change NOI Information via EPA  
Form 3510-6**

**EPC-DO: 20-042**

**LA-UR-20-21438**

**Date:** MAR 20 2020



**From:** [Emily Hack \(Avanti\) \(EPA NeT Support\)](#)  
**Cc:** [Jahan Nasim](#); [Wheeler, Holly Lynn](#); [Dale, Leslie J](#); [Hazen, Michael W](#)  
**Subject:** NMR050013 - Triad National Security LLC - MSGP Notice of Intent  
**Date:** Friday, October 26, 2018 11:13:07 AM  
**Attachments:** [NMR050013\\_Triad\\_Los Alamos National Laboratory\\_2015 MSGP NOI Acknowledgement.pdf](#)  
[Triad National Security LLC\\_Los Alamos National Laboratory\\_10-02-2018.pdf](#)

---

*Please click here to reply directly to this email.*

You are CC'ed on this support request (10066). Reply to this email to add a comment to the request.

Emily Hack (Avanti) (EPA NeT Support)

Good afternoon,

The paper Notice of Intent (NOI) submitted under EPA's Multi-Sector General Permit (MSGP) for Los Alamos National Laboratory under Triad National Security LLC has been processed by the EPA NPDES eReporting Help Desk. The facility was assigned NPDES ID NMR050013. Please, retain the attached acknowledgement letter for your records.

Due to the unique nature of the outfall sequence and monitoring requirements, EPA instructed that we enter the NOI directly into the back-end system. Therefore, the NOI will not be generated in the NeT MSGP program at this time. Attached is the NOI that we received. As I'm sure you are aware, for any changes to the NOI in the future, please submit them via paper as well.

Please, let me know if you have any questions.

Sincerely,

Emily Hack  
NPDES eReporting Help Desk  
Staffed by Avanti Corporation  
1-877-227-8965  
[NPDESeReporting@epa.gov](mailto:NPDESeReporting@epa.gov)

This email is a service from EPA NeT Support. Delivered by [Zendesk](#)

### **Attachment 3**

EPA Region 6 Approval for Triad National Security, LLC to  
Submit a Paper NOI

EPC-DO: 20-042

LA-UR-20-21438

Date: MAR 20 2020

**Dale, Leslie J**

---

**From:** Lemke, Terrill W  
**Sent:** Wednesday, September 26, 2018 4:16 PM  
**To:** Dolan, Timothy Aloysius; Dale, Leslie J; Wheeler, Holly Lynn  
**Subject:** FW: Request for LANL Paper MSGP NOI Waiver

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

FYI

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

**From:** Jahan, Nasim <Jahan.Nasim@epa.gov>  
**Sent:** Wednesday, September 26, 2018 2:43 PM  
**To:** Lemke, Terrill W <tlemke@lanl.gov>  
**Cc:** Emily Gorman <emily@avanticorporation.com>  
**Subject:** RE: Request for LANL Paper MSGP NOI Waiver

Dear Mr. Terrill:

EPA, Region 6 is approving your request for paper submission as the facility is unable to submit the NOI online.. Please mail the hardcopies to the following address:

**For Regular U.S. Mail Delivery:**

Stormwater Notice Processing Center  
Mail Code 4203M, ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

- **For Overnight/Express U.S. Mail Delivery:**

Stormwater Notice Processing Center  
William Jefferson Clinton East Building – Room 7420  
ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1201 Constitution Avenue, NW  
Washington, DC 20004

Thank you,

*Nasim Jahan*



Environmental Engineer  
Permits and Technical Section (6WQ-PP)  
EPA Region 6 Water Quality Protection Division  
1445 Ross Avenue, Ste. 1200  
Dallas, TX 75202-2733  
Phone: 214.665.7522  
Fax: 214.665.2191

**From:** Lemke, Terrill W [<mailto:tlemke@lanl.gov>]  
**Sent:** Wednesday, September 26, 2018 3:30 PM  
**To:** Jahan, Nasim <[Jahan.Nasim@epa.gov](mailto:Jahan.Nasim@epa.gov)>  
**Cc:** Dale, Leslie J <[leslie@lanl.gov](mailto:leslie@lanl.gov)>; Dolan, Timothy Aloysius <[tdolan@lanl.gov](mailto:tdolan@lanl.gov)>  
**Subject:** Request for LANL Paper MSGP NOI Waiver

Nasim,

Thank you for speaking with us today. We've had the opportunity to review the changes implemented in the updated NeT-MSGP system that rolled out earlier this year, and have identified the following issues as problematic for submitting an accurate and complete electronic NOI.

A new NOI must be submitted for Triad National Security, LLC (Triad) as a new operator for Los Alamos National Laboratory (LANL) pursuant to Part B.12.C of the 2015 MSGP. Triad is replacing Los Alamos National Security, LLC (LANS) as operator of LANL effective November 1, 2018. Per the schedule in Table 1-2 of the MSGP, Triad's NOI must be submitted by October 2, 2018.

EPA's Electronic Reporting Rule requires that NOIs be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to the following system limitations previously identified by LANS and coordinated by EPA Region 6 personnel, a complete and accurate NOI cannot be submitted using NeT-MSGP.

1. Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, requires that benchmark values be modified to reflect New Mexico water quality standards for facilities in New Mexico, based on benchmark values from the Standards for Interstate and Intrastate Surface Waters (20.6.4.900 New Mexico Administrative Code [NMAC]). These modified benchmark values are not recognized by NeT-MSGP and populated in NetDMR.
2. The 2018-2020 State of New Mexico Clean Water Act §303(d)/ §305(b) Integrated Report requires monitoring of impaired waters pollutants not available for selection in NeT-MSGP (e.g., Adjusted Gross Alpha and Temperature).
3. 20.6.4.900 NMAC requires monitoring of certain modified benchmark and impaired waters metals pollutants as dissolved species, which are not available for selection in NeT-MSGP. Currently, only total metals species may be assigned in NeT-MSGP.
4. Due to extended frozen conditions during the winter and a semi-arid climate, Triad will implement an alternative monitoring period of four (4) two-month monitoring quarters for benchmark values as identified below, in accordance with Part 6.1.6 of the 2015 MSGP. This alternate monitoring schedule does not coincide with the default four (4) three-month quarters listed in Part 6.1.7 of the 2015 MSGP and NeT-MSGP does not allow input of an alternate monitoring schedule. Accordingly, annual impaired waters and Effluent Limitation Guideline monitoring will be conducted between April 1 and November 30 of each year.

April 1 through May 31  
June 1 through July 31  
August 1 through September 30

October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Therefore, per your verbal direction, we are requesting a waiver for Triad to submit a paper NOI in lieu of submitting an inaccurate and incomplete NOI in NeT-MSGP. Please advise at your earliest convenience if you concur with our submittal of a paper NOI, as we must submit by Oct 2.

We appreciate your assistance in helping us maintain compliance. If you have any questions, please contact me at (505) 665-2397.

Terrill

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

## **Attachment 4**

**Change NOI for Stormwater Discharges Associated with  
Industrial Activity under the NPDES Multi-Sector General  
Permit**

**EPC-DO: 20-042**

**LA-UR-20-21438**

**Date:** MAR 20 2020



<b>NPDES FORM</b> <b>3510-6</b>		<b>UNITED STATES ENVIRONMENTAL PROTECTION AGENCY</b> <b>WASHINGTON, DC 20460</b> <b>NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT</b>	Form Approved. OMB No. 2040-0004
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Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in Section C of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi-Sector General Permit (MSGP) permit number identified in Section B of this form. Submission of this NOI also constitutes notice that the operator identified in Section C of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility identified in Section D of this form. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage. Refer to the instructions at the end of this form to complete your NOI.

### A. Approval to Use Paper NOI Form

1. Have you been granted a waiver from electronic reporting from the EPA Regional Office\*?    ☒ YES    ☐ NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

Waiver granted:    ☐ The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.

☒ The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver:    Nasim Jahan

Date approval obtained:    09 / 26 / 2018    **Note: This form is submitting Change NOI information. Modified items/sections are highlighted.**

\* Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper NOI form. If you have not obtained a waiver, you must file this form electronically using the NPDES eReporting Tool (NeT) at <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPA-MultiSector-General-Permit.cfm>

### B. Permit Information

**NPDES ID (EPA Use Only):**    NMRO500013

1. Master Permit Number:     (see Appendix C of the MSGP for the list of eligible master permit numbers)

2. Are you a new discharger or a new source as defined in Appendix A?    ☐ YES    ☐ NO (If yes, skip to Part C of this form).

3. If you are not a new discharger or a new source, have stormwater discharges from your facility been covered previously under an NPDES permit?

☐ YES    ☐ NO

If yes, provide the NPDES ID if you had coverage under EPA's 2008 MSGP or the NPDES ID if you had coverage under an EPA individual permit:   

### C. Facility Operator Information

1. Operator Information:

Operator Name:   

Mailing Address:

Street:   

City:        State:        ZIP Code:     -

County or Similar Government Subdivision:   

Phone:     -  -     Ext.   

E-mail:   

2. Operator Point of Contact Information:

First Name, Middle Initial, Last Name:   

Title:   

3. NOI Preparer Information (Complete if NOI was prepared by someone other than the certifier):

First Name, Middle Initial, Last Name:   

Organization:   

Phone:     -  -     Ext.   

E-mail:



**D. Facility Information**

1. Facility Name:

2. Facility Address:  
Street/Location:

City:  State:  ZIP Code:  -

County or Similar Government Subdivision:

3. Latitude/Longitude for the facility:  
Latitude: ° N (decimal degrees) Longitude: ° W (decimal degrees)  
Latitude/Longitude Data Source: ☐ Map ☐ GPS ☐ Other  
If you used a USGS topographic map, what was the scale?

Horizontal Reference Datum: ☐ NAD 27 ☐ NAD 83 ☐ WGS 84

4. Is your facility located on Indian Country lands? ☐ YES ☐ NO  
If yes, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable):

5. Are you requesting coverage under this NOI as a "federal operator" as defined in Appendix A? ☐ YES ☐ NO

6. What is the ownership type of the facility?  
☐ Federal Facility (U.S. Government) ☐ Privately Owned Facility ☐ Municipality ☐ County Government  
☐ Corporation ☐ State Government ☐ Tribal Government ☐ School District  
☐ District ☐ Mixed Ownership (e.g., Public/Private) ☐ Municipal or Water District

7. Estimated area of industrial activity at your facility exposed to stormwater: **48.25** (to the nearest quarter acre)

8. Sector-Specific Information  
Identify the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in the MSGP, and the applicable sector and subsector of your primary industrial activity (See Appendix D):  
Primary SIC Code:     OR Primary Activity Code:    
Sector:  Subsector:

Identify the applicable sector(s) and subsector(s) of any co-located industrial activity for which you are requesting permit coverage:  
Sector:  Subsector:  Sector:  Subsector:  Sector:  Subsector:   
Sector:  Subsector:  Sector:  Subsector:  Sector:  Subsector:

If you are a Sector S (Air Transportation) facility, do you anticipate using more than 100,000 gallons of pure glycol in glycol-based deicing fluids and/or 100 tons or more of urea on an average annual basis? ☐ YES ☐ NO

If you are a Sector G (Metal Mining) facility, do you have discharges from waste rock and overburden piles? ☐ YES ☐ NO

Check the type of ore you mine at your facility: ☐ Tungsten Ore ☐ Nickel Ore ☐ Aluminum Ore  
☐ Mercury Ore ☐ Iron Ore ☐ Platinum Ore ☐ Titanium Ore ☐ Vanadium Ore ☐ Molybdenum ☐ Uranium, Radium, and/or Vanadium Ore

9. Is your facility presently inactive and unstaffed? ☐ YES ☐ NO  
\* Note that if your facility becomes inactive and unstaffed during the permit term, you must submit an NOI modification to reflect the change.

**E. Discharge Information**

1. By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.1.3. 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 1.1.2 and 1.1.3 will be discharged, they must be covered under another NPDES permit. ☐ YES

2. Federal Effluent Limitation Guidelines  
Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? ☐ YES ☐ NO



If yes, which effluent limitation guidelines apply to your stormwater discharges?

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Check if Applicable
Part 411, Subpart C	Runoff from material storage piles at cement manufacturing facilities	E	2/20/1974	<input type="checkbox"/>
Part 418 Subpart A	Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	C	4/8/1974	<input type="checkbox"/>
Part 423	Coal pile runoff at steam electric generating facilities	O	11/19/1982 10/8/1974 <sup>1</sup>	<input type="checkbox"/>
Part 429, Subpart I	Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	A	1/26/1981	<input type="checkbox"/>
Part 436, Subpart B, C, or D	Mine dewatering discharges at crushed stone mines, construction sand and gravel mines, or industrial sand mines	J	N/A	<input type="checkbox"/>
Part 443, Subpart A	Runoff from asphalt emulsion facilities	D	7/28/1975	<input type="checkbox"/>
Part 445, Subparts A & B	Runoff from hazardous waste and non-hazardous waste landfills	K, L	2/2/2000	<input type="checkbox"/>
Part 449	Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	S	6/15/2012	<input type="checkbox"/>

<sup>1</sup>NSPS promulgated in 1974 were not removed via the 1982 regulation; therefore wastewaters generated by Part 423-applicable sources that were New Sources under the 1974 regulations are subject to the 1974 NSPS.

### 3. Receiving Waters Information: (Attach a separate list if necessary)

List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002). Also provide the latitude and longitude in degrees decimal for each outfall.		For each outfall, provide the following receiving water information:		
		Provide the name of the first water of the U.S. that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to:	If the receiving water is impaired (on the CWA 303(d) list), list the pollutants that are causing the impairment:	If a TMDL been completed for this receiving waterbody, providing the following information:
Outfall ID	043 (Sector D, Subsector D1)	Mortandad Canyon (within LANL) Per Part 7.4, the ELG pollutants TSS and pH were detected at a concentration that exceeds the maximum daily limit. The ELG pollutant TSS was detected at a concentration that exceeds the 30-day average.		TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
Outfall ID	077 (Sector AA, Subsector A1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001) Add outfall to permit coverage effective January 16, 2020.	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]	TMDL Name and ID: N/A
Latitude	35.8697222			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.3008333			
If substantially identical to other outfall, list identical outfall ID: _____				

Outfall ID	078 (Sector P, Subsector P1)	Canon de Valle (below LANL gage E256)  Add outfall to permit coverage effective February 7, 2020.	51931 Adjusted Gross Alpha	TMDL Name and ID: N/A
Latitude	35.8469444			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.3447222			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				



4. Provide the following information about your outfall latitude longitude:

Latitude/Longitude Data Source: ☐ Map ☐ GPS ☐ Other

If you used a USGS topographic map, what was the scale?

Horizontal Reference Datum: ☐ NAD 27 ☐ NAD 83 ☐ WGS 84

5. Does your facility discharge into a Municipal Separate Storm Sewer System (MS4)? ☐ YES ☐ NO

If yes, provide the name of the MS4 operator:

6. Check if you discharge to any of the waters of the U.S. that are 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] or as a Tier 3 water [Outstanding National Resource Water]? (See Appendix L).

☐ Tier 2/2.5. Provide the name(s) of receiving water(s):☐ Tier 3 (Outstanding National Resource Waters)\*

\* Note: You are ineligible for coverage if you are a new discharger or new source to waters designated as Tier 3 (outstanding national resource waters) for antidegradation purposes under 40 CFR 131.13(a)(3).

7. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, what is the hardness of your receiving water(s) (see Appendix J)?  
 \_\_\_\_\_ (mg/L)

8. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, does your facility discharge into any saltwater receiving waters?  
☐ YES ☐ NO

9. Does your facility discharge to a federal CERCLA site listed in Appendix P? ☐ YES ☐ NO

If yes, did you notify the EPA Regional Office in advance of filing your NOI, and did the EPA Regional Office determine that you are eligible for permit coverage pursuant to Part 1.1.4.10? ☐ YES ☐ NO

\* Note: If you discharge to a federal CERCLA site listed in Appendix P, you are ineligible for coverage under this permit unless you notify the EPA Regional Office in advance and the EPA Regional Office determines you are eligible coverage under this permit. In determining your eligibility for coverage under this Part, the EPA Regional Office may evaluate whether you have included adequate controls and/or procedures to ensure that your discharges will not lead to recontamination of aquatic media of the CERCLA Site such that it will to cause or contribute to an exceedance of a water quality standard.

#### F. Stormwater Pollution Prevention Plan (SWPPP) Information

1. Has the SWPPP been prepared in advance of filing this NOI, as required? ☒ YES ☐ NO

2. SWPPP Contact Information:

First Name, Middle Initial, Last Name: H o l l y L w h e e l e r

[illegible]

Phone:	5	0	5	-	6	6	7	-	1	3	1	2	Ext.				
--------	---	---	---	---	---	---	---	---	---	---	---	---	------	--	--	--	--

E-mail: | h | b | e | n | s | o | n | @ | l | a | n | l | . | g | o | v | | | | | | | | | |

### 3. SWPPP Availability:

Your current SWPPP or certain information from your SWPPP must be made available through one of the following two 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) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.

☒ **Option 1:** Maintain a current copy of your SWPPP on an Internet page (Universal Resource Locator or URL).

Provide the web address URL: [epr.lanl.gov](http://epr.lanl.gov)

☐ **Option 2:** Provide the following information from your SWPPP:

A. Describe your onsite industrial activities exposed to stormwater (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams), and potential spill and leak areas:

B. List the pollutant(s) or pollutant constituent(s) associated with each industrial activity exposed to stormwater that could be discharged in stormwater and any authorized non-stormwater discharges listed in Part 1, 1.3:

C. Describe the control measures you will employ 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 (see Part 5.2.4):

D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2):

### G. Endangered Species Protection

1. Using the instructions in Appendix E of the MSGP, under which endangered species criterion listed in Part 1.1, 4.5 are you eligible for coverage under this permit (only check 1 box)?\*

☐ A      ☐ B      ☐ C      ☐ D      ☐ E

\* Note: After you submit your NOI and before your NOI is authorized, EPA may notify you if any additional controls are necessary to ensure your discharges have no likely adverse effects on listed species and critical habitat.

2. Provide a brief summary of the basis for the criterion selected in Appendix E (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service to determine no species in action area; implementation of controls approved by EPA and the Services):

3. If you select criterion B, provide the NPDES ID from the other operator's NOI authorized under this permit:

1 1 1 1 1 1 1 1

4. If you select criterion C, you must answer the following questions:

a. What federally-listed species or designated critical habitat are located in your "action area":

b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions:

☐ I submitted my completed *Criterion C Eligibility Form* to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse effects on listed species and critical habitat.

Date your Criterion C Eligibility Form was sent to EPA:  /  /

Describe any EPA-approved measures you will implement to ensure no likely adverse effects on listed species and critical habitat:

☐ I submitted my completed *Criterion C Eligibility Form* to EPA at least 30 days prior to submitting this NOI and have not been notified of any additional measures necessary to ensure no likely adverse effects on listed species and critical habitat.

Date your Criterion C Eligibility Form was sent to EPA: | | / | | / | |

5. If you select criterion D or E, you must attach copies of any letters or other communications with the U.S. Fish and Wildlife Service or National Marine Fisheries Service.



**H. Historic Preservation**

1. If your facility is not located on Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe?

☐ YES ☐ NO

If yes, provide the name of the Indian tribe associated with the property: \_\_\_\_\_

2. Using the instructions in Appendix F of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.6 are you eligible for coverage under this permit (only check 1 box)?

☐ A ☐ B ☐ C ☐ D

**I. 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: J e n n i f e r      E      P a y n e

Title: D i v i s i o n   L e a d e r

Signature:  j p a y n e @ l a n l . g o v

Date: 06 / 18 / 2020

E-mail: j p a y n e @ l a n l . g o v



## **Attachment 5**

NetDMR Monitoring Requirements for Los Alamos National  
Laboratory, Operated by Triad National Security, LLC, MSGP  
ID NMR050013

EPC-DO: 20-042

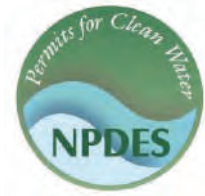
LA-UR-20-21438

Date: MAR 20 2020

							Modified Benchmark and Impaired Waters Limits per MSQP Section 9.6.2 and the NH Water Quality Standards (20.6 & 900 NMAC [New Mexico Administrative Code])										
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge P (Limit Set)	Discharge Description	Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of Analysis	Smpl. Type	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	03104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	4/1/2020	5/31/2020	7/31/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	4/1/2020	5/31/2020	7/31/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	4/1/2020	5/31/2020	7/31/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	4/1/2020	5/31/2020	7/31/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	03104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	6/1/2020	7/31/2020	9/30/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	6/1/2020	7/31/2020	9/30/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	6/1/2020	7/31/2020	9/30/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	6/1/2020	7/31/2020	9/30/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	8/1/2020	9/30/2020	11/30/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	8/1/2020	9/30/2020	11/30/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	8/1/2020	9/30/2020	11/30/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	8/1/2020	9/30/2020	11/30/2020
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	03104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2020	11/30/2020	1/31/2021
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2020	11/30/2020	1/31/2021
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2020	11/30/2020	1/31/2021
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2020	11/30/2020	1/31/2021
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	03104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/78	Gr	4/1/2020	11/30/2020	1/31/2021
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=	2	Maximum	ug/L	1/78	Gr	4/1/2020	11/30/2020	1/31/2021
NMRS00013	Los Alamos National Laboratory	077	AA	AA1	077-11	11- Fabricated Metal Products, except Coating	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/78	Gr	4/1/2020	11/30/2020	1/31/2021
NMRS00013	Los Alamos National Laboratory	078	P	P1	078-11	11- Impaired Water	51931 1 0	Adjusted Gross Alpha	<=	15	Maximum	pc/L	1/78	Gr	4/1/2020	11/30/2020	1/31/2021
Additions to NCI and NetDMR are in BOLD.																	



U.S. ENVIRONMENTAL PROTECTION  
AGENCY (EPA)  
NATIONAL POLLUTANT DISCHARGE  
ELIMINATION SYSTEM (NPDES)  
EPA's NPDES EREPORTING HELP DESK



10/26/2018

Triad National Security LLC  
ATTN: Michael W. Hazen  
PO Box 1663 MS K490  
Los Alamos, NM 87545

Facility: Los Alamos National Laboratory  
PO Box 1663  
Los Alamos, NM 87545

NPDES ID: **NMR050013**

Dear Michael W. Hazen:

This letter acknowledges that you have submitted a complete Notice of Intent form to be covered under the NPDES Multi-Sector General Permit (MSGP) for stormwater discharges associated with industrial activity. Coverage under this permit begins at the conclusion of your 30-day waiting period, on **11/01/2018**, unless EPA notifies you that your authorization has been denied or delayed.

For tracking purposes, the following NPDES ID has been assigned to your Notice of Intent: **NMR050013**

As stated above, this letter acknowledges receipt of a complete Notice of Intent. However, it is not an EPA determination of the validity of the information you provided. Your eligibility for coverage under the Permit is based on the validity of the certification you provided. Your signature on the Notice of Intent certifies that you have read, understood, and are implementing all of the applicable requirements. An important aspect of this certification requires that you correctly determine whether you are eligible for coverage under this permit.

As you know, the MSGP requires you to have developed a Stormwater Pollution Prevention Plan (SWPPP) prior to submitting your NOI. The MSGP also includes specific requirements for implementing control measures (e.g., minimize exposure, good housekeeping, maintenance, spill prevention and response), conducting self-inspections and visual assessments of your discharges, taking corrective actions, and conducting staff training. You must comply with any specific requirements applicable to your industrial sector(s) in Part 8 and any state/tribal-specific requirements in Part 9 (see <https://www.epa.gov/npdes/stormwater-discharges-industrial-activities>). You are also required to submit an Annual Report in accordance with Part 7.5 of the MSGP that will contain the results from your past year's routine facility inspections, quarterly visual assessments, and corrective actions.

The MSGP includes five types of required analytical monitoring, one or more of which may apply to your discharge:

- Quarterly benchmark monitoring (see Part 6.2.1 and Part 8);
- Annual effluent limitations guidelines monitoring (see Part 6.2.2 and Part 8);
- State- or tribal-specific monitoring (see Part 6.2.3 and Part 9);
- Impaired waters monitoring (see Part 6.2.4); and

- Other monitoring as required by EPA (see Part 6.2.5).

Monitoring requirements in the MSGP (i.e., parameters required to be monitored and sample frequency) will be prepopulated on your electronic Discharge Monitoring Report (DMR) in EPA's NetDMR system, which is accessed at <https://netdmr.epa.gov>. Where you have determined that no monitoring requirements apply to your discharge, there is no need to access the NetDMR system. In order to obtain access to this system, you must complete the electronic signature process. Please refer to the following guidance for information about submitting monitoring reports through NetDMR:  
<https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#ereporting>.

If you have general questions regarding the stormwater program or your responsibilities under the Multi-Sector General Permit, please contact:

EPA Region **06**

Name: **Nasim Jahan**

Phone: **(214) 665-7522**

Email: [jahan.nasim@epa.gov](mailto:jahan.nasim@epa.gov)

If you have questions about your Notice of Intent form, please call the EPA NPDES eReporting Help Desk at 1-877-227-8965 (toll free) or send an email to [NPDESeReporting@epa.gov](mailto:NPDESeReporting@epa.gov).

EPA NPDES eReporting Help Desk

Operated by Avanti Corporation

1200 Pennsylvania Ave., NW

Mail Code: 4203M

Washington, DC 20460

1-877-227-8965

*Date:* **OCT 01 2018**  
*Symbol:* EPC-DO: 18-358  
*LA-UR:* 18-29182  
*Locates Action No.:* N/A

Stormwater Notice Processing Center  
William Jefferson Clinton East Building – Room 7420  
ATTN: 2015 MSGP Signature Agreement  
U.S. Environmental Protection Agency  
1201 Constitution Avenue, NW  
Washington, DC 20004

**Subject: National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Notice of Intent (NOI) Reporting Pursuant to Part B.12.C**

To Whom It May Concern:

This letter serves to document the transmittal of a NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES MSGP for Triad National Security, LLC (Triad) as a new operator for Los Alamos National Laboratory (LANL) pursuant to Part B.12.C of the 2015 MSGP. Triad is replacing Los Alamos National Security, LLC (LANS) as operator of LANL effective November 1, 2018.

EPA's Electronic Reporting Rule requires that NOIs be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to the following system limitations previously identified by LANS and coordinated with EPA Region 6 personnel, a complete and accurate NOI cannot be submitted using NeT-MSGP.

1. Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, requires that benchmark values be modified to reflect New Mexico water quality standards for facilities in New Mexico, based on benchmark values from the Standards for Interstate and Intrastate Surface Waters (20.6.4.900 New Mexico Administrative Code [NMAC]). These modified benchmark values are not recognized by NeT-MSGP and populated in NetDMR.
2. The 2018-2020 State of New Mexico Clean Water Act §303(d)/§305(b) Integrated Report requires monitoring of impaired waters pollutants not available for selection in NeT-MSGP (e.g., Adjusted Gross Alpha and Total Recoverable Aluminum).
3. 20.6.4.900 NMAC requires monitoring of certain modified benchmark and impaired waters metals pollutants as dissolved species, which are not available for selection in NeT-MSGP. Currently, only total metals species may be assigned in NeT-MSGP.
4. Due to extended frozen conditions during the winter and a semi-arid climate, Triad will implement an alternative monitoring period of four (4) two-month monitoring quarters for benchmark values as identified below, in accordance with Part 6.1.6 of the 2015 MSGP. This alternate monitoring schedule



does not coincide with the default four (4) three-month quarters listed in Part 6.1.7 of the 2015 MSGP and NeT-MSGP does not allow input of an alternate monitoring schedule. Accordingly, annual impaired waters and Effluent Limitation Guideline monitoring will be conducted between April 1 and November 30 of each year.

April 1 through May 31  
June 1 through July 31  
August 1 through September 30  
October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

Additionally, Part 6.1.7 of the 2015 MSGP states that monitoring requirements in the permit begin in the first full quarter following the date of discharge authorization. Per the alternative monitoring schedule above, Triad interprets monitoring requirements to begin April 1, 2019.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Thus, Triad was granted a waiver to submit a paper NOI from Nasim Jahan (EPA Region 6) on 9/26/2018 (Enclosure 1). To facilitate complete and accurate information in Net-MSGP and NetDMR, Triad is submitting a paper NOI on EPA Form 3510-6 (Enclosure 2), and an additional table defining monitored outfall-specific Sector and impaired waters limit sets, monitoring periods and DMR due dates (Enclosure 3) for population in the NetDMR system. EPA previously implemented similar monitoring requirements for LANL's 2015 MSGP coverage as operated by LANS under NPDES ID NMR053195.

Your assistance is greatly appreciated as Triad is committed to maintaining compliance with the MSGP requirements. If you have any questions, please contact Terrill Lemke (505) 665-2397 or Leslie Dale (505) 606-2371.

Sincerely,



Michael W. Hazen  
Associate Laboratory Director  
Triad National Security, LLC

MWH:TWL:LJD:jdm

Enclosure(s): 1) EPA Region 6 Approval for Triad National Security, LLC to Submit a Paper NOI  
2) NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit

- 3) NetDMR Monitoring Requirements for Los Alamos National Laboratory, Operated by Triad National Security, LLC
- 4) Threatened and Endangered Species Protection Concurrence Letters from the United States Department of Interior, Fish and Wildlife Service

Copy: Nasim Jahan, EPA Region 6, (E-File),  
Helen Nguyen, EPA Region 6, (E-File),  
Sarah Holcomb, NMED/SWQB, (E-File),  
Karen E. Armijo, NA-LA, (E-File),  
Thomas E. Mason, Triad, (E-File),  
Kelly Beierschmitt, Triad, (E-File),  
Kevin T. Amery, Triad, (E-File),  
J. Barton Lounsbury, Triad, (E-File),  
G. Drew Fuller, Triad, (E-File),  
Timothy A. Dolan, LC-ESH, (E-File),  
William R. Mairson, ADESH, (E-File),  
Enrique Torres, EPC-DO, (E-File),  
Taunia S. Van Valkenburg, EPC-CP, (E-File),  
Terrill W. Lemke, EPC-CP (E-File),  
Holly L. Wheeler, EPC-CP (E-File),  
Leslie J. Dale, EPC-CP (E-File),  
[locatestream@lanl.gov](mailto:locatestream@lanl.gov) (E-File),  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov) (E-File),  
[epc-correspondence@lanl.gov](mailto:epc-correspondence@lanl.gov) (E-File)

## **ENCLOSURE 1**

**EPA Region 6 Approval for Triad National Security, LLC  
to Submit a Paper NOI**

**EPC-DO: 18-358**

**LA-UR-18-29182**

**Date:** **OCT 01 2018**

**Dale, Leslie J**

---

**From:** Lemke, Terrill W  
**Sent:** Wednesday, September 26, 2018 4:16 PM  
**To:** Dolan, Timothy Aloysius; Dale, Leslie J; Wheeler, Holly Lynn  
**Subject:** FW: Request for LANL Paper MSGP NOI Waiver

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

FYI

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

**From:** Jahan, Nasim <Jahan.Nasim@epa.gov>  
**Sent:** Wednesday, September 26, 2018 2:43 PM  
**To:** Lemke, Terrill W <tlemke@lanl.gov>  
**Cc:** Emily Gorman <emily@avanticorporation.com>  
**Subject:** RE: Request for LANL Paper MSGP NOI Waiver

Dear Mr. Terrill:

EPA, Region 6 is approving your request for paper submission as the facility is unable to submit the NOI online.. Please mail the hardcopies to the following address:

**For Regular U.S. Mail Delivery:**  
Stormwater Notice Processing Center  
Mail Code 4203M, ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

- **For Overnight/Express U.S. Mail Delivery:**  
Stormwater Notice Processing Center  
William Jefferson Clinton East Building – Room 7420  
ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1201 Constitution Avenue, NW  
Washington, DC 20004

Thank you,

*Nasim Jahan*



October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Therefore, per your verbal direction, we are requesting a waiver for Triad to submit a paper NOI in lieu of submitting an inaccurate and incomplete NOI in NeT-MSGP. Please advise at your earliest convenience if you concur with our submittal of a paper NOI, as we must submit by Oct 2.

We appreciate your assistance in helping us maintain compliance. If you have any questions, please contact me at (505) 665-2397.

Terrill

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

## **ENCLOSURE 2**

**NOI for Stormwater Discharges Associated with Industrial  
Activity under the NPDES Multi-Sector General Permit**

**EPC-DO: 18-358**

**LA-UR-18-29182**

**Date:** **OCT 01 2018**



Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in Section C of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi-Sector General Permit (MSGP) permit number identified in Section B of this form. Submission of this NOI also constitutes notice that the operator identified in Section C of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility identified in Section D of this form. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage. Refer to the instructions at the end of this form to complete your NOI.

**A. Approval to Use Paper NOI Form**1. Have you been granted a waiver from electronic reporting from the EPA Regional Office\*? ☒ YES ☐ NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

- Waiver granted: ☐ The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.
- ☒ The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver:

N a s i m J a h a n

Date approval obtained:

09 / 26 / 2018

\* Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper NOI form. If you have not obtained a waiver, you must file this form electronically using the NPDES eReporting Tool (Net) at <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPA-MultiSector-General-Permit.cfm>

**B. Permit Information**

NPDES ID (EPA Use Only):

1. Master Permit Number: NMR0500000 (see Appendix C of the MSGP for the list of eligible master permit numbers)

2. Are you a new discharger or a new source as defined in Appendix A? ☐ YES ☒ NO (If yes, skip to Part C of this form).

3. If you are not a new discharger or a new source, have stormwater discharges from your facility been covered previously under an NPDES permit?

☒ YES ☐ NO

If yes, provide the NPDES ID if you had coverage under EPA's 2008 MSGP or the NPDES ID if you had coverage under an EPA individual permit:

Note: Facility had 2015 MSGP coverage under Permit ID NMR053195 with Los Alamos National Security, LLC as operator.

NMR05GB21

**C. Facility Operator Information**

1. Operator Information:

Operator Name:

T r i a d N a t i o n a l S e c u r i t y L L C

Mailing Address:

Street:

P O B o x 1 6 6 3 M S K 4 9 0

City:

L o s A l a m o s

State: NM

ZIP Code:

8 7 5 4 5 -

County or Similar Government Subdivision:

L o s A l a m o s

Phone:

5 0 5 - 6 6 5 - 2 3 9 7

Ext.:

E-mail:

t l e m k e @ l a n l . g o v

2. Operator Point of Contact Information:

First Name, Middle Initial, Last Name:

T e r r i l l W L e m k e

Title:

E n v i r o n m e n t a l M a n a g e r

3. NOI Preparer Information (Complete if NOI was prepared by someone other than the certifier):

First Name, Middle Initial, Last Name:

H o l l y L W h e e l e r

Organization:

T r i a d N a t i o n a l S e c u r i t y L L C

Phone:

5 0 5 - 6 6 7 - 1 3 1 2

Ext.:

E-mail:

h b e n s o n @ l a n l . g o v

**D. Facility Information**

1. Facility Name: **L o s A l a m o s N a t i o n a l L a b o r a t o r y**

2. Facility Address:  
Street/Location: **P O B o x 1 6 6 3**  
City: **L o s A l a m o s** State: **N M** ZIP Code: **8 7 5 4 5**  
County or Similar Government Subdivision: **L o s A l a m o s**

3. Latitude/Longitude for the facility:  
Latitude: **3 5 8 7 2 8**° N (decimal degrees) Longitude: **1 0 6 3 2 1 1**° W (decimal degrees)  
Latitude/Longitude Data Source: ☐ Map ☐ GPS ☒ Other  
If you used a USGS topographic map, what was the scale? \_\_\_\_\_

Horizontal Reference Datum: ☐ NAD 27 ☐ NAD 83 ☒ WGS 84

4. Is your facility located on Indian Country lands? ☐ YES ☒ NO  
If yes, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable): \_\_\_\_\_

5. Are you requesting coverage under this NOI as a "federal operator" as defined in Appendix A? ☒ YES ☐ NO

6. What is the ownership type of the facility?  
☒ Federal Facility (U.S. Government) ☐ Privately Owned Facility ☐ Municipality ☐ County Government  
☐ Corporation ☐ State Government ☐ Tribal Government ☐ School District  
☐ District ☐ Mixed Ownership (e.g., Public/Private) ☐ Municipal or Water District

7. Estimated area of industrial activity at your facility exposed to stormwater: **60.50** (to the nearest quarter acre)

8. Sector-Specific Information **NOTE: Sectors do not apply to every outfall. Refer to Section E.3 for Outfall-specific Sector associations.**  
Identify the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in the MSGP, and the applicable sector and subsector of your primary industrial activity (See Appendix D):  
Primary SIC Code: **4 2 1 2** OR Primary Activity Code:   
Sector: **P** Subsector: **P 1**

Identify the applicable sector(s) and subsector(s) of any co-located industrial activity for which you are requesting permit coverage:  
Sector: **A** Subsector: **A 4** Sector: **D** Subsector: **D 1** Sector: **F** Subsector: **F 4**  
Sector: **N** Subsector: **N 2** Sector: **O** Subsector: **O 1** Sector: **AA** Subsector: **AA 1**  
**(Not N1)**

If you are a Sector S (Air Transportation) facility, do you anticipate using more than 100,000 gallons of pure glycol in glycol-based deicing fluids and/or 100 tons or more of urea on an average annual basis? ☐ YES ☐ NO

If you are a Sector G (Metal Mining) facility, do you have discharges from waste rock and overburden piles? ☐ YES ☐ NO

Check the type of ore you mine at your facility: ☐ Tungsten Ore ☐ Nickel Ore ☐ Aluminum Ore  
☐ Mercury Ore ☐ Iron Ore ☐ Platinum Ore ☐ Titanium Ore ☐ Vanadium Ore ☐ Molybdenum ☐ Uranium, Radium, and/or Vanadium Ore

9. Is your facility presently inactive and unstaffed? ☐ YES ☒ NO  
\* Note that if your facility becomes inactive and unstaffed during the permit term, you must submit an NOI modification to reflect the change.

**E. Discharge Information**

1. By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.1.3. 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 1.1.2 and 1.1.3 will be discharged, they must be covered under another NPDES permit. ☒ YES

2. Federal Effluent Limitation Guidelines  
Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? ☒ YES ☐ NO



If yes, which effluent limitation guidelines apply to your stormwater discharges?

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Check if Applicable
Part 411, Subpart C	Runoff from material storage piles at cement manufacturing facilities	E	2/20/1974	<input type="checkbox"/>
Part 418 Subpart A	Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	C	4/8/1974	<input type="checkbox"/>
Part 423	Cool pile runoff at steam electric generating facilities	O	11/19/1982 10/8/1974 <sup>1</sup>	<input type="checkbox"/>
Part 429, Subpart I	Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	A	1/26/1981	<input type="checkbox"/>
Part 436, Subpart B, C, or D	Mine dewatering discharges at crushed stone mines, construction sand and gravel mines, or industrial sand mines	J	N/A	<input type="checkbox"/>
Part 443, Subpart A	Runoff from asphalt emulsion facilities	D	7/28/1975	<input checked="" type="checkbox"/>
Part 445, Subparts A & B	Runoff from hazardous waste and non-hazardous waste landfills	K, L	2/2/2000	<input type="checkbox"/>
Part 449	Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	S	6/15/2012	<input type="checkbox"/>

<sup>1</sup>NSPS promulgated in 1974 were not removed via the 1982 regulation; therefore wastewaters generated by Part 423-applicable sources that were New Sources under the 1974 regulations are subject to the 1974 NSPS.

3. Receiving Waters Information: (Attach a separate list if necessary) **Note: Refer to Enclosure 3 for NetDMR Outfall-specific Sector and Impaired Waters Unit Sets.**

List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002). Also provide the latitude and longitude in degrees decimal for each outfall.		For each outfall, provide the following receiving water information:		
		Provide the name of the first water of the U.S. that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to:	If the receiving water is impaired (on the CWA 303(d) list), list the pollutants that are causing the impairment:	If a TMDL been completed for this receiving waterbody, providing the following information:
Outfall ID	002 (Sector AA, Subsector AA1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A  Pollutant(s) for which there is a TMDL: N/A
Latitude	35.875797			
Longitude	-106.327580			
Outfall ID	005 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A  Pollutant(s) for which there is a TMDL: N/A
Latitude	35.873919			
Longitude	-106.320746			

If substantially identical to other outfall, list identical outfall ID: \_\_\_\_\_

Outfall ID	006 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.874011			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.319858			
If substantially identical to other outfall, list identical outfall ID: 005				
Outfall ID	009 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.874843			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.319412			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	007 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.874014			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.319203			
If substantially identical to other outfall, list identical outfall ID: 009				
Outfall ID	008 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.874617			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.318925			
If substantially identical to other outfall, list identical outfall ID: 009				

Outfall ID	010 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.875402			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.320301			
If substantially identical to other outfall, list identical outfall ID: 009				
Outfall ID	012 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.875532			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.320884			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	011 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.875563			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.320744			
If substantially identical to other outfall, list identical outfall ID: 012				
Outfall ID	017 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.872599			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.317066			
If substantially identical to other outfall, list identical outfall ID: _____				



Outfall ID	013 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	51931 Adjusted Gross Alpha; 01040 Copper, dissolved [as Cu]; 71900 Mercury, total [as Hg]; 39516 Polychlorinated biphenyls [PCBs]	TMDL Name and ID: N/A
Latitude	35.870797			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.317867			
If substantially identical to other outfall, list identical outfall ID: 017				
Outfall ID	014 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	51931 Adjusted Gross Alpha; 01040 Copper, dissolved [as Cu]; 71900 Mercury, total [as Hg]; 39516 Polychlorinated biphenyls [PCBs]	TMDL Name and ID: N/A
Latitude	35.870890			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.317393			
If substantially identical to other outfall, list identical outfall ID: 017				
Outfall ID	015 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	51931 Adjusted Gross Alpha; 01040 Copper, dissolved [as Cu]; 71900 Mercury, total [as Hg]; 39516 Polychlorinated biphenyls [PCBs]	TMDL Name and ID: N/A
Latitude	35.871389			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.316397			
If substantially identical to other outfall, list identical outfall ID: 017				
Outfall ID	016 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.872447			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.316721			
If substantially identical to other outfall, list identical outfall ID: 017				



Outfall ID	019 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.872682			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.318467			
If substantially identical to other outfall, list identical outfall ID: 017				
Outfall ID	020 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.872240			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.316340			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	022 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.872661			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.313691			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	021 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.872514			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.313562			
If substantially identical to other outfall, list identical outfall ID: 022				

Outfall ID	023 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.873193			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.313116			
If substantially identical to other outfall, list identical outfall ID: 022				
Outfall ID	024 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.873046			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.315069			
If substantially identical to other outfall, list identical outfall ID: 022				
Outfall ID	025 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.872928			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.315400			
If substantially identical to other outfall, list identical outfall ID: 022				
Outfall ID	026 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.872114			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.313105			
If substantially identical to other outfall, list identical outfall ID: _____				

Outfall ID	027 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.872401			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.313391			
If substantially identical to other outfall, list identical outfall ID: 026				
Outfall ID	028 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.872505			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.313542			
If substantially identical to other outfall, list identical outfall ID: 026				
Outfall ID	029 (Sector N, Subsector N2)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.873969			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.313281			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	031 (Sector P, Subsector P1)	Mortandad Canyon (within LANL)	51931 Adjusted Gross Alpha; 01040 Copper, dissolved [as Cu]; 71900 Mercury, total [as Hg]; 39516 Polychlorinated biphenyls [PCBs]	TMDL Name and ID: N/A
Latitude	35.869227			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.305685			
If substantially identical to other outfall, list identical outfall ID: _____				



Outfall ID	030 (Sector P, Subsector P1)	Mortandad Canyon (within LANL)	51931 Adjusted Gross Alpha; 01040 Copper, dissolved [as Cu]; 71900 Mercury, total [as Hg]; 39516 Polychlorinated biphenyls [PCBs]	TMDL Name and ID: N/A
Latitude	35.869325			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.306926			
If substantially identical to other outfall, list identical outfall ID: 031				
Outfall ID	032 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.870741			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.306812			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	033 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.870712			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.306443			
If substantially identical to other outfall, list identical outfall ID: 032				
Outfall ID	034 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.870603			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.306055			
If substantially identical to other outfall, list identical outfall ID: 032				



Outfall ID	035 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.870474			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.305432			
If substantially identical to other outfall, list identical outfall ID: 032				
Outfall ID	036 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.867825			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.293388			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	037 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.867859			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.292992			
If substantially identical to other outfall, list identical outfall ID: 036				
Outfall ID	039 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.867826			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.291726			
If substantially identical to other outfall, list identical outfall ID: _____				

Outfall ID	038 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.867855			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.292211			
If substantially identical to other outfall, list identical outfall ID: 039				
Outfall ID	040 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.867839			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.291955			
If substantially identical to other outfall, list identical outfall ID: 039				
Outfall ID	042 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A
Latitude	35.867047			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.289163			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	041 (Sector P, Subsector P1)	Mortandad Canyon (within LANL)	51931 Adjusted Gross Alpha; 01040 Copper, dissolved [as Cu]; 71900 Mercury, total [as Hg]; 39516 Polychlorinated biphenyls [PCBs]	TMDL Name and ID: N/A
Latitude	35.866377			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.291397			
If substantially identical to other outfall, list identical outfall ID: 042				

Outfall ID	043 (Sector P, Subsector P1)	Mortandad Canyon (within LANL)	51931 Adjusted Gross Alpha; 01040 Copper, dissolved [as Cu]; 71900 Mercury, total [as Hg]; 39516 Polychlorinated biphenyls [PCBs]	TMDL Name and ID: N/A  Pollutant(s) for which there is a TMDL: N/A
Latitude	35.866084			
Longitude	-106.290165			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	074 (Sector A, Subsector A4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A  Pollutant(s) for which there is a TMDL: N/A
Latitude	35.875034			
Longitude	-106.327328			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	073 (Sector A, Subsector A4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A  Pollutant(s) for which there is a TMDL: N/A
Latitude	35.874819			
Longitude	-106.324283			
If substantially identical to other outfall, list identical outfall ID: 074				
Outfall ID	075 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature, water deg. centigrade	TMDL Name and ID: N/A  Pollutant(s) for which there is a TMDL: N/A
Latitude	35.871154			
Longitude	-106.312940			
If substantially identical to other outfall, list identical outfall ID: _____				



4. Provide the following information about your outfall latitude/longitude:

Latitude/Longitude Data Source: ☐ Map ☒ GPS ☐ Other

If you used a USGS topographic map, what was the scale? \_\_\_\_\_

Horizontal Reference Datum: ☐ NAD 27 ☒ NAD 83 ☐ WGS 84

5. Does your facility discharge into a Municipal Separate Storm Sewer System (MS4)? ☐ YES ☒ NO

If yes, provide the name of the MS4 operator: N/A

6. Check if you discharge to any of the waters of the U.S. that are 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] or as a Tier 3 water (Outstanding National Resource Water)? (See Appendix L).

☐ Tier 2/2.5. Provide the name(s) of receiving water(s): \_\_\_\_\_

☐ Tier 3 (Outstanding National Resource Waters)\*

\* **Note: You are ineligible for coverage if you are a new discharger or new source to waters designated as Tier 3 (outstanding national resource waters) for antidegradation purposes under 40 CFR 131.13(a)(3).**

7. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, what is the hardness of your receiving water(s) (see Appendix J)?

82 (mg/L)

8. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, does your facility discharge into any saltwater receiving waters?

☐ YES ☒ NO

9. Does your facility discharge to a federal CERCLA site listed in Appendix P? ☐ YES ☒ NO

If yes, did you notify the EPA Regional Office in advance of filing your NOI, and did the EPA Regional Office determine that you are eligible for permit coverage pursuant to Part 1.1.4.10\*? ☐ YES ☐ NO

\* **Note: If you discharge to a federal CERCLA site listed in Appendix P, you are ineligible for coverage under this permit unless you notify the EPA Regional Office in advance and the EPA Regional Office determines you are eligible coverage under this permit. In determining your eligibility for coverage under this Part, the EPA Regional Office may evaluate whether you have included adequate controls and/or procedures to ensure that your discharges will not lead to recontamination of aquatic media at the CERCLA Site such that it will to cause or contribute to an exceedance of a water quality standard.**

#### F. Stormwater Pollution Prevention Plan (SWPPP) Information

1. Has the SWPPP been prepared in advance of filing this NOI, as required? ☒ YES ☐ NO

2. SWPPP Contact Information:

First Name, Middle Initial, Last Name: Holly L Wheeler

Professional Title: Environmental Professional

Phone: 505-667-1312 Ext.

E-mail: hbenson@lanl.gov

3. SWPPP Availability:

Your current SWPPP or certain information from your SWPPP must be made available through one of the following two 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) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.**

☒ **Option 1:** Maintain a current copy of your SWPPP on an Internet page (Universal Resource Locator or URL):

Provide the web address URL: eprr.lanl.gov

☐ **Option 2:** Provide the following information from your SWPPP:

A. Describe your onsite industrial activities exposed to stormwater (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams), and potential spill and leak areas:



B. List the pollutant(s) or pollutant constituent(s) associated with each industrial activity exposed to stormwater that could be discharged in stormwater and any authorized non-stormwater discharges listed in Part 1.1.3:

C. Describe the control measures you will employ 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 (see Part 5.2.4):

D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2):

#### G. Endangered Species Protection

1. Using the instructions in Appendix E of the MSGP, under which endangered species criterion listed in Part 1.1.4.5 are you eligible for coverage under this permit (only check 1 box)?\*

☐ A ☐ B ☐ C ☒ D ☐ E

\* **Note: After you submit your NOI and before your NOI is authorized, EPA may notify you if any additional controls are necessary to ensure your discharges have no likely adverse effects on listed species and critical habitat.**

2. Provide a brief summary of the basis for the criterion selected in Appendix E (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service to determine no species in action area; implementation of controls approved by EPA and the Services):  
Direct consultation with the U.S. Fish and Wildlife Service and corresponding development and implementation of a facility-specific Habitat Management Plan.

3. If you select criterion B, provide the NPDES ID from the other operator's NOI authorized under this permit:

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4. If you select criterion C, you must answer the following questions:

a. What federally-listed species or designated critical habitat are located in your "action area":

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b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions:

☐ I submitted my completed *Criterion C Eligibility Form* to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse effects on listed species and critical habitat.

Date your *Criterion C Eligibility Form* was sent to EPA: 

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Describe any EPA-approved measures you will implement to ensure no likely adverse effects on listed species and critical habitat:

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☐ I submitted my completed *Criterion C Eligibility Form* to EPA at least 30 days prior to submitting this NOI and have not been notified of any additional measures necessary to ensure no likely adverse effects on listed species and critical habitat.

Date your *Criterion C Eligibility Form* was sent to EPA: 

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5. If you select criterion D or E, you must attach copies of any letters or other communications with the U.S. Fish and Wildlife Service or National Marine Fisheries Service.

#### H. Historic Preservation

1. If your facility is not located on Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe?

☒ YES ☐ NO

If yes, provide the name of the Indian tribe associated with the property: San Ildefonso Pueblo

2. Using the instructions in Appendix F of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.6 are you eligible for coverage under this permit (only check 1 box)?

☐ A ☒ B ☐ C ☐ D

#### I. 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: Michael W Hazen

Title: Associate Laboratory Director

Signature: 

Date: 10/01/2018

E-mail: mhazen@lanl.gov

## **ENCLOSURE 3**

**NetDMR Monitoring Requirements for Los Alamos National  
Laboratory, Operated by Triad National Security, LLC**

**EPC-DO: 18-358**

**LA-UR-18-29182**

**Date:** **OCT 01 2018**

ELG, Modified Benchmark, and Impaired Waters Limits per MSQP Section 9.6.3 and the NM Water Quality Standards (20.6.4.900 NMAC (New Mexico Administrative Code))																	
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Proposed Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of Analysis	Smpl. Type	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01044 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
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TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
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TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 10	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 10	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 10	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L					



ELG, Modified Benchmark, and Impaired Waters Limits per MSGP Section 9.6.2 and the NM Water Quality Standards (20.6.4.900 NMAC [New Mexico Administrative Code])																	
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Proposed Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of Analysis	Smpl. Type	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	99	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	022	P	P1	022-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	022	P	P1	022-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	022	P	P1	022-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	022	P	P1	022-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	026	P	P1	026-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	026	P	P1	026-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	026	P	P1	026-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020

NetDMR Monitoring Requirements for Los Alamos National Laboratory, Operated by Triad National Security, LLC.xlsx

							E.G., Modified Benchmark, and Impaired Waters Limits per MS6P Section 9.6.2 and the NM Water Quality Standards (20.6.4.900 NMAC [New Mexico Administrative Code])											
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Proposed Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of Analysis	Smpl. Type	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date	
TBD	Los Alamos National Laboratory	026	P	P1	026-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	029	N	N2	029-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	029	N	N2	029-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	029	N	N2	029-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	029	N	N2	029-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	51931 1 0	Adjusted Gross Alpha	<=	15	Maximum	pCi/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	11	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	71900 1 0	Mercury, total [as Hg]	<=	0.77	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TaD	Los Alamos National Laboratory	032	P	P1	032-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	032	P	P1	032-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	032	P	P1	032-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	032	P	P1	032-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	036	P	P1	036-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	036	P	P1	036-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	036	P	P1	036-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	036	P	P1	036-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	039	P	P1	039-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	039	P	P1	039-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	039	P	P1	039-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	039	P	P1	039-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	042	P	P1	042-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	042	P	P1	042-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	042	P	P1	042-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	042	P	P1	042-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019	
TBD	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019	
TBD	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019	
TBD	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	043	D	D1	043-1D	1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00556 1 0	Oil & Grease	<=	10	30-Day Average	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	043	D	D1	043-1D	1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00556 1 0	Oil & Grease	<=	15	Daily Maximum	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	043	D	D1	043-1D	1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00400 1 0	pH	>=	6	Minimum	SU	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	043	D	D1	043-1D	1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00400 1 0	pH	<=	9	Maximum	SU	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	043	D	D1	043-1D	1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	15	30-Day Average	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	043	D	D1	043-1D	1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	23	Daily Maximum	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	
TBD	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	51931 1 0	Adjusted Gross Alpha	<=	15	Maximum	pCi/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020	



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							ELG, Modified Benchmark, and Impaired Waters Limits per MSGP Section 9.6.2 and the NM Water Quality Standards (20.6.4.900 NMAC [New Mexico Administrative Code])										
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Proposed Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of Analysis	Smpl. Type	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
TBD	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	11	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	71900 1 0	Mercury, total [as Hg]	<=	0.77	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand (COD)	<=	120	Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
TBD	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	80530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
TBD	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand (COD)	<=	120	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	80530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
TBD	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand (COD)	<=	120	Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
TBD	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	80530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
TBD	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand (COD)	<=	120	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	80530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	074	A	A4	074-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	074	A	A4	074-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	074	A	A4	074-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	074	A	A4	074-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	075	P	P1	075-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	075	P	P1	075-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	075	P	P1	075-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	075	P	P1	075-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020

## **ENCLOSURE 4**

**Threatened and Endangered Species Protection Concurrence  
Letters from the United States Department of Interior, Fish and  
Wildlife Service**

**EPC-DO: 18-358**

**LA-UR-18-29182**

**Date:** **OCT 01 2018**





## 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.

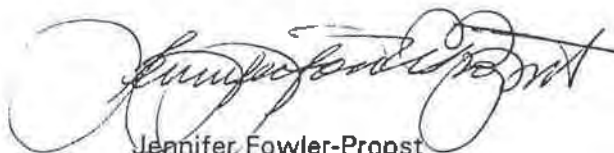
In general, activities that detrimentally alter habitat in an AEI or would cause unacceptable disturbance to the species inhabiting the AEI are not allowed under the guidelines of a Site Plan. The Site Plans are designed to minimize impacts to threatened and endangered species and their habitat. The 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 #2-22-98-1-336. 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, 35<sup>th</sup> 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,

  
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/](http://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.



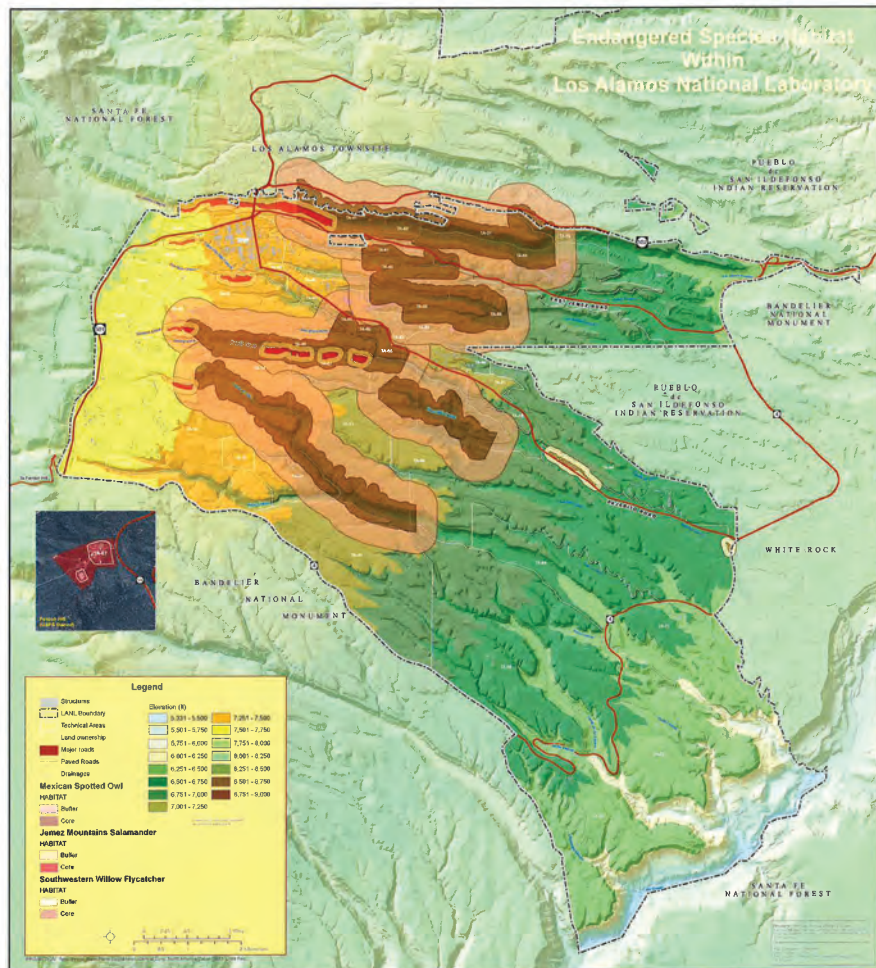
Thank you for your concern for endangered species and New Mexico's wildlife habitats. If you have any questions, please contact Eric Hein of my staff at the letterhead address or at (505) 761-4735.

Sincerely,

for Wally Murphy  
Field Supervisor

cc:

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





U.S. ENVIRONMENTAL PROTECTION  
AGENCY (EPA)  
NATIONAL POLLUTANT DISCHARGE  
ELIMINATION SYSTEM (NPDES)  
EPA's NPDES EREPORTING HELP DESK



06/27/2019

Triad National Security LLC  
ATTN: Enrique Torres  
PO Box 1663, MS K490  
Los Alamos, NM 87545

Facility: Los Alamos National Laboratory  
PO Box 1663  
Los Alamos, NM 87545

NPDES ID: **NMR050013**

Dear Enrique Torres:

This letter acknowledges that you have submitted a complete Multi Sector General Permit (MSGP) Notice of Intent (NOI) **Modification** form. It has been processed and the information you provided has been updated in EPA's database.

If you have other questions concerning the stormwater program, please contact EPA Region 6:

Name: Nasim Jahan  
Phone: (214) 665-7522  
Email: [Jahan.Nasim@epa.gov](mailto:Jahan.Nasim@epa.gov)

If you have any questions regarding this letter, please call the EPA NPDES eReporting Help Desk at 1-877-227-8965 (toll free) or send an email to [NPDESeReporting@epa.gov](mailto:NPDESeReporting@epa.gov).

EPA NPDES eReporting Help Desk  
Operated by Avanti Corporation  
1200 Pennsylvania Ave., NW  
Mail Code: 4203M  
Washington, DC 20460  
1-877-227-8965





*Environmental Protection and Compliance*

**Los Alamos National Laboratory**

PO Box 1663, K491

Los Alamos, NM 87545

(505) 667-2211

Date: **JUN 11 2019**

Symbol: EPC-DO: 19-191

LA-UR: 19-25199

Stormwater Notice Processing Center  
William Jefferson Clinton East Building – Room 7420  
ATTN: 2015 MSGP Signature Agreement  
U.S. Environmental Protection Agency  
1201 Constitution Avenue, NW  
Washington, DC 20004

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Change Notice of Intent (Change NOI) Reporting Pursuant to Part 7.4**

To Whom It May Concern:

This letter serves to submit Change NOI information to modify outfalls and monitoring requirements related to MSGP Permit Tracking No. NMR050013 for Triad National Security, LLC (Triad) as the operator for Los Alamos National Laboratory pursuant to Part 7.4 of the MSGP.

Environmental Protection Agency's (EPA's) Electronic Reporting Rule requires that NOIs be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to system limitations previously identified by Triad and verified with EPA Region 6 personnel, a complete and accurate NOI could not be created in NeT-MSGP. Therefore, change NOI information cannot be submitted using NeT-MSGP (Attachment 1). As a result, Triad was granted a waiver to submit paper NOI forms from Nasim Jahan (EPA Region 6) on September 26, 2018 (Attachment 1).

Part 6.2.4.1 of the MSGP indicates no monitoring is required when a waterbody's impairment is related to a non-pollutant. EPA Region 6 has concurred that temperature is a non-pollutant, therefore monitoring for temperature in stormwater as an impairment is not required (Attachment 2).

To accurately update the NOI and to facilitate complete and accurate information in NetDMR, Triad is submitting a paper NOI on EPA Form 3510-6 (Attachment 3) and an additional table defining



EPC-DO: 19-191  
Stormwater Notice Processing Center

modifications to the monitored outfall-specific Sector and impaired waters limits sets (Attachment 4) currently populated in the NetDMR system.

Your assistance is greatly appreciated as Triad is committed to maintaining compliance with the MSGP requirements. If you have any questions, please contact Terrill Lemke (505) 665-2397 or Leslie Dale (505) 606-2371.

Very Truly Yours,



Enrique Torres  
Division Leader  
Environmental Protection & Compliance Division

ET/TWL/LJD:jdm

Attachment(s): Attachment 1 EPA Region 6 Approval for Triad National Security, LLC to Submit a Paper NOI; EPA Guidance to Submit Change NOI Information via EPA Form 3510-6  
Attachment 2 EPA Region 6 Concurrence Regarding Temperature as a Non-Pollutant  
Attachment 3 Change NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit  
Attachment 4 NetDMR Monitoring Requirements for Los Alamos National Laboratory, Operated by Triad National Security, LLC, MSGP ID NMR050013

Copy: Nasim Jahan, EPA Region 6, [jahan.nasim@epa.gov](mailto:jahan.nasim@epa.gov), (E-File)  
Helen Nguyen, EPA Region 6, [nguyen.helen@epa.gov](mailto:nguyen.helen@epa.gov), (E-File)  
Sarah Holcomb, NMED/SWQB, [sarah.holcomb@state.nm.us](mailto:sarah.holcomb@state.nm.us), (E-File)  
Karen E. Armijo, NA-LA, [karen.armijo@nnsa.doe.gov](mailto:karen.armijo@nnsa.doe.gov), (E-File)  
Michael W. Hazen, ALDESHQSS, [mhazen@lanl.gov](mailto:mhazen@lanl.gov), (E-File)  
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Timothy A. Dolan, GC-ESH, [tdolan@lanl.gov](mailto:tdolan@lanl.gov), (E-File)  
Taunia S. Van Valkenburg, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov), (E-File)  
Terrill W. Lemke, EPC-CP, [tlemke@lanl.gov](mailto:tlemke@lanl.gov), (E-File)  
Holly L. Wheeler, EPC-CP, [hbenson@lanl.gov](mailto:hbenson@lanl.gov), (E-File)  
Leslie J. Dale, EPC-CP, [leslie@lanl.gov](mailto:leslie@lanl.gov), (E-File)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov), (E-File)  
[lasomailbox@nnsa.doe.gov](mailto:lasomailbox@nnsa.doe.gov), (E-file)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov), (E-File)

## **Attachment 1**

EPA Region 6 Approval for Triad National Security, LLC to  
Submit a Paper NOI; EPA Guidance to Submit Change NOI  
Information via EPA Form 3510-6

EPC-DO: 19-191

LA-UR-19-25199

Date: JUN 11 2019

**Dale, Leslie J**

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**From:** Lemke, Terrill W  
**Sent:** Wednesday, September 26, 2018 4:16 PM  
**To:** Dolan, Timothy Aloysius; Dale, Leslie J; Wheeler, Holly Lynn  
**Subject:** FW: Request for LANL Paper MSGP NOI Waiver

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

FYI

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

**From:** Jahan, Nasim <Jahan.Nasim@epa.gov>  
**Sent:** Wednesday, September 26, 2018 2:43 PM  
**To:** Lemke, Terrill W <tlemke@lanl.gov>  
**Cc:** Emily Gorman <emily@avanticorporation.com>  
**Subject:** RE: Request for LANL Paper MSGP NOI Waiver

Dear Mr. Terrill:

EPA, Region 6 is approving your request for paper submission as the facility is unable to submit the NOI online.. Please mail the hardcopies to the following address:

**For Regular U.S. Mail Delivery:**

Stormwater Notice Processing Center  
Mail Code 4203M, ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

- **For Overnight/Express U.S. Mail Delivery:**

Stormwater Notice Processing Center  
William Jefferson Clinton East Building – Room 7420  
ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1201 Constitution Avenue, NW  
Washington, DC 20004

Thank you,

*Nasim Jahan*



Environmental Engineer  
Permits and Technical Section (6WQ-PP)  
EPA Region 6 Water Quality Protection Division  
1445 Ross Avenue, Ste. 1200  
Dallas, TX 75202-2733  
Phone: 214.665.7522  
Fax: 214.665.2191

**From:** Lemke, Terrill W [<mailto:tlemke@lanl.gov>]  
**Sent:** Wednesday, September 26, 2018 3:30 PM  
**To:** Jahan, Nasim <[Jahan.Nasim@epa.gov](mailto:Jahan.Nasim@epa.gov)>  
**Cc:** Dale, Leslie J <[leslie@lanl.gov](mailto:leslie@lanl.gov)>; Dolan, Timothy Aloysius <[tdolan@lanl.gov](mailto:tdolan@lanl.gov)>  
**Subject:** Request for LANL Paper MSGP NOI Waiver

Nasim,

Thank you for speaking with us today. We've had the opportunity to review the changes implemented in the updated NeT-MSGP system that rolled out earlier this year, and have identified the following issues as problematic for submitting an accurate and complete electronic NOI.

A new NOI must be submitted for Triad National Security, LLC (Triad) as a new operator for Los Alamos National Laboratory (LANL) pursuant to Part B.12.C of the 2015 MSGP. Triad is replacing Los Alamos National Security, LLC (LANS) as operator of LANL effective November 1, 2018. Per the schedule in Table 1-2 of the MSGP, Triad's NOI must be submitted by October 2, 2018.

EPA's Electronic Reporting Rule requires that NOIs be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to the following system limitations previously identified by LANS and coordinated by EPA Region 6 personnel, a complete and accurate NOI cannot be submitted using NeT-MSGP.

1. Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, requires that benchmark values be modified to reflect New Mexico water quality standards for facilities in New Mexico, based on benchmark values from the Standards for Interstate and Intrastate Surface Waters (20.6.4.900 New Mexico Administrative Code [NMAC]). These modified benchmark values are not recognized by NeT-MSGP and populated in NetDMR.
2. The 2018-2020 State of New Mexico Clean Water Act §303(d)/ §305(b) Integrated Report requires monitoring of impaired waters pollutants not available for selection in NeT-MSGP (e.g., Adjusted Gross Alpha and Temperature).
3. 20.6.4.900 NMAC requires monitoring of certain modified benchmark and impaired waters metals pollutants as dissolved species, which are not available for selection in NeT-MSGP. Currently, only total metals species may be assigned in NeT-MSGP.
4. Due to extended frozen conditions during the winter and a semi-arid climate, Triad will implement an alternative monitoring period of four (4) two-month monitoring quarters for benchmark values as identified below, in accordance with Part 6.1.6 of the 2015 MSGP. This alternate monitoring schedule does not coincide with the default four (4) three-month quarters listed in Part 6.1.7 of the 2015 MSGP and NeT-MSGP does not allow input of an alternate monitoring schedule. Accordingly, annual impaired waters and Effluent Limitation Guideline monitoring will be conducted between April 1 and November 30 of each year.

April 1 through May 31

June 1 through July 31

August 1 through September 30



These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Therefore, per your verbal direction, we are requesting a waiver for Triad to submit a paper NOI in lieu of submitting an inaccurate and incomplete NOI in NeT-MSGP. Please advise at your earliest convenience if you concur with our submittal of a paper NOI, as we must submit by Oct 2.

We appreciate your assistance in helping us maintain compliance. If you have any questions, please contact me at (505) 665-2397.

Terrill

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

**From:** [Emily Hack \(Avanti\) \(EPA NeT Support\)](#)  
**Cc:** [Jahan Nasim](#); [Wheeler, Holly Lynn](#); [Dale, Leslie J](#); [Hazen, Michael W](#)  
**Subject:** NMR050013 - Triad National Security LLC - MSGP Notice of Intent  
**Date:** Friday, October 26, 2018 11:13:07 AM  
**Attachments:** [NMR050013\\_Triad\\_Los Alamos National Laboratory\\_2015 MSGP NOI Acknowledgement.pdf](#)  
[Triad National Security LLC\\_Los Alamos National Laboratory\\_10-02-2018.pdf](#)

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You are CC'ed on this support request (10066). Reply to this email to add a comment to the request.

Emily Hack (Avanti) (EPA NeT Support)

Good afternoon,

The paper Notice of Intent (NOI) submitted under EPA's Multi-Sector General Permit (MSGP) for Los Alamos National Laboratory under Triad National Security LLC has been processed by the EPA NPDES eReporting Help Desk. The facility was assigned NPDES ID NMR050013. Please, retain the attached acknowledgement letter for your records.

Due to the unique nature of the outfall sequence and monitoring requirements, EPA instructed that we enter the NOI directly into the back-end system. Therefore, the NOI will not be generated in the NeT MSGP program at this time. Attached is the NOI that we received. As I'm sure you are aware, for any changes to the NOI in the future, please submit them via paper as well.

Please, let me know if you have any questions.

Sincerely,

Emily Hack  
NPDES eReporting Help Desk  
Staffed by Avanti Corporation  
1-877-227-8965  
[NPDESeReporting@epa.gov](mailto:NPDESeReporting@epa.gov)

## **Attachment 2**

EPA Region 6 Concurrence Regarding Temperature as a  
Non-Pollutant

EPC-DO: 19-191

LA-UR-19-25199

Date: JUN 11 2019



**Dale, Leslie J**

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**From:** Jahan, Nasim <Jahan.Nasim@epa.gov>  
**Sent:** Wednesday, March 27, 2019 10:40 AM  
**To:** Dale, Leslie J  
**Cc:** Lemke, Terrill W; Dolan, Timothy Aloysius; Wheeler, Holly Lynn; Holcomb, Sarah, NMENV  
**Subject:** RE: Temperature Monitoring for MSGP

Dear Leslie:

I concur your decision based on your reference. Please let me know if you have any other concerns..

Thank you,

Nasim..

**From:** Dale, Leslie J <leslie@lanl.gov>  
**Sent:** Wednesday, March 27, 2019 11:16 AM  
**To:** Jahan, Nasim <Jahan.Nasim@epa.gov>  
**Cc:** Lemke, Terrill W <tlemke@lanl.gov>; Dolan, Timothy Aloysius <tdolan@lanl.gov>; Wheeler, Holly Lynn <hbenson@lanl.gov>; Holcomb, Sarah, NMENV <sarah.holcomb@state.nm.us>  
**Subject:** Temperature Monitoring for MSGP

Good Morning Nasim,

We (Los Alamos National Laboratory, NMR0050013) have a question regarding whether temperature is considered a pollutant with respect to impaired waters monitoring under the MSGP. Part 6.2.4.1 of the MSGP, paragraph 2 states "**No monitoring is required** when a waterbody's biological communities are impaired but no pollutant, including indicator or surrogate pollutants, is specified as causing the impaired, or **when a waterbody's impairment is related to** hydrologic modifications, impaired hydrology, or **other non-pollutant.**"

For context, the 2018-2020 State of New Mexico CWA Section 303(d)/Section 305(b) Integrated Report listed temperature as an impairment to Sandia Canyon (Sigma Canyon to NPDES outfall 001, AU ID: NM-9000.A\_047). Upon release of the revised Integrated Report, we included temperature as an impairment in our NOI submitted under Triad National Security, LLC (the new operator of Los Alamos National Laboratory) effective November 1, 2018.

We sought clarification from the New Mexico Environment Department – Surface Water Quality Bureau on March 25, 2019. Upon visiting the language in Part 6.2.4.1 of the MSGP, Sarah Holcomb provided guidance that temperature is a non-pollutant.

According to 40 CFR 122.2, Pollutant means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials (except those regulated under the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 et seq.)), **heat**, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, municipal, and agricultural waste discharged into water. It does not mean:

(a) Sewage from vessels; or

(b) Water, gas, or other material which is injected into a well to facilitate production of oil or gas, or water derived in association with oil and gas production and disposed of in a well, if the well used either to facilitate production or for



disposal purposes is approved by authority of the State in which the well is located, and if the State determines that the injection or disposal will not result in the degradation of ground or surface water resources.

We interpret "heat" to mean heat generated by MSGP industrial activities and not ambient temperature associated with stormwater runoff from MSGP facilities, and therefore believe that monitoring for temperature in stormwater as an impairment is not required.

Please let us know whether you concur, as we are preparing to modify our NOI to remove temperature from our monitoring requirements for the 2019 monitoring season.

Thank you,

**Leslie Dale, CHMM**

Environmental Compliance Programs (EPC-CP)

Los Alamos National Laboratory

PO Box 1663, MS K490

Los Alamos, NM 87545

(505) 606-2371

## **Attachment 3**

**Change NOI for Stormwater Discharges Associated with  
Industrial Activity under the NPDES Multi-Sector General  
Permit**

**EPC-DO: 19-191**

**LA-UR-19-25199**

**Date:** JUN 11 2019

[illegible]



**D. Facility Information**

1. Facility Name:
2. Facility Address:  
Street/Location:
- City:  State:  ZIP Code:  -
- County or Similar Government Subdivision:
3. Latitude/Longitude for the facility:  
Latitude:  ° N (decimal degrees) Longitude:  ° W (decimal degrees)  
Latitude/Longitude Data Source: ☐ Map ☐ GPS ☐ Other  
If you used a USGS topographic map, what was the scale?
- Horizontal Reference Datum: ☐ NAD 27 ☐ NAD 83 ☐ WGS 84
4. Is your facility located on Indian Country lands? ☐ YES ☐ NO  
If yes, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable):
5. Are you requesting coverage under this NOI as a "federal operator" as defined in Appendix A? ☐ YES ☐ NO
6. What is the ownership type of the facility?  
☐ Federal Facility (U.S. Government) ☐ Privately Owned Facility ☐ Municipality ☐ County Government  
☐ Corporation ☐ State Government ☐ Tribal Government ☐ School District  
☐ District ☐ Mixed Ownership (e.g., Public/Private) ☐ Municipal or Water District
7. Estimated area of industrial activity at your facility exposed to stormwater: 51 (to the nearest quarter acre)

**8. Sector-Specific Information**

Identify the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in the MSGP, and the applicable sector and subsector of your primary industrial activity (See Appendix D):

Primary SIC Code:     OR Primary Activity Code:

Sector:  Subsector:  **Note: REMOVE the following Sector/Subsector from permit coverage.**

Identify the applicable sector(s) and subsector(s) of any co-located industrial activity for which you are requesting permit coverage:

Sector:  Subsector:  Sector:  Subsector:  Sector:  Subsector:   
Sector:  Subsector:  Sector:  Subsector:  Sector:  Subsector:

If you are a Sector S (Air Transportation) facility, do you anticipate using more than 100,000 gallons of pure glycol in glycol-based deicing fluids and/or 100 tons or more of urea on an average annual basis? ☐ YES ☐ NO

If you are a Sector G (Metal Mining) facility, do you have discharges from waste rock and overburden piles? ☐ YES ☐ NO

Check the type of ore you mine at your facility: ☐ Tungsten Ore ☐ Nickel Ore ☐ Aluminum Ore

☐ Mercury Ore ☐ Iron Ore ☐ Platinum Ore ☐ Titanium Ore ☐ Vanadium Ore ☐ Molybdenum ☐ Uranium, Radium, and/or Vanadium Ore

9. Is your facility presently inactive and unstaffed? ☐ YES ☐ NO

\* Note that if your facility becomes inactive and unstaffed during the permit term, you must submit an NOI modification to reflect the change.

**E. Discharge Information**

1. By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.1.3. 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 1.1.2 and 1.1.3 will be discharged, they must be covered under another NPDES permit. ☐ YES

2. Federal Effluent Limitation Guidelines

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? ☐ YES ☐ NO



If yes, which effluent limitation guidelines apply to your stormwater discharges?

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Check if Applicable
Part 411, Subpart C	Runoff from material storage piles at cement manufacturing facilities	E	2/20/1974	<input type="checkbox"/>
Part 418 Subpart A	Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	C	4/8/1974	<input type="checkbox"/>
Part 423	Coal pile runoff at steam electric generating facilities	O	11/19/1982 10/8/1974 <sup>1</sup>	<input type="checkbox"/>
Part 429, Subpart I	Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	A	1/26/1981	<input type="checkbox"/>
Part 436, Subpart B, C, or D	Mine dewatering discharges at crushed stone mines, construction sand and gravel mines, or industrial sand mines	J	N/A	<input type="checkbox"/>
Part 443, Subpart A	Runoff from asphalt emulsion facilities	D	7/28/1975	<input type="checkbox"/>
Part 445, Subparts A & B	Runoff from hazardous waste and non-hazardous waste landfills	K, L	2/2/2000	<input type="checkbox"/>
Part 449	Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	S	6/15/2012	<input type="checkbox"/>

<sup>1</sup>NSPS promulgated in 1974 were not removed via the 1982 regulation; therefore wastewaters generated by Part 423-applicable sources that were New Sources under the 1974 regulations are subject to the 1974 NSPS.

3. **Receiving Waters Information:** (Attach a separate list if necessary)

List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002). Also provide the latitude and longitude in degrees decimal for each outfall.		For each outfall, provide the following receiving water information:		
		Provide the name of the first water of the U.S. that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to:	If the receiving water is impaired (on the CWA 303(d) list), list the pollutants that are causing the impairment:	If a TMDL been completed for this receiving waterbody, providing the following information:
Outfall ID	002 (Sector AA, Subsector AA1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)  Remove monitored outfall 002 from permit coverage and NetDMR. Outfall was eliminated effective May 1, 2019.		TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
Outfall ID	005 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)  Remove 00010 Temperature, water deg. centigrade from list of impairments		TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				



Outfall ID	006 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 005				
Outfall ID	009 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	007 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 009				
Outfall ID	008 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 009				

Outfall ID	010 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 009				
Outfall ID	012 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	011 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 012				
Outfall ID	017 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)  Remove monitored outfall 017 from permit coverage and NetDMR. Site achieved No Exposure Status effective December 18, 2018.		TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				



Outfall ID	013 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)		TMDL Name and ID: N/A
Latitude		Remove SIO 013 from permit coverage. Site achieved No Exposure Status effective December 18, 2018.		Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 017				
Outfall ID	014 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)		TMDL Name and ID: N/A
Latitude		Remove SIO 014 from permit coverage. Site achieved No Exposure Status effective December 18, 2018.		Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 017				
Outfall ID	015 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)		TMDL Name and ID: N/A
Latitude		Remove SIO 015 from permit coverage. Site achieved No Exposure Status effective December 18, 2018.		Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 017				
Outfall ID	016 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)		TMDL Name and ID: N/A
Latitude		Remove SIO 016 from permit coverage. Site achieved No Exposure Status effective December 18, 2018.		Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 017				



Outfall ID	019 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)  Remove SIO 019 from permit coverage. Site achieved No Exposure Status effective December 18, 2018.		TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 017				
Outfall ID	020 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)  Remove monitored outfall 020 from permit coverage and NetDMR. Site achieved no Exposure Status effective December 18, 2018.		TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	022 (Sectors AA, P, Subsectors AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)  Add Sector AA, Subsector AA1 to permit coverage for monitored outfall 022.	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	021 (Sector AA, P, Subsector AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)  Add Sector AA, Subsector AA1 to permit coverage for SIO 021.	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 022				

Outfall ID	023 (Sector AA, P, Subsector AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID:  N/A  Pollutant(s) for which there is a TMDL:  N/A
Latitude				
Longitude	Add Sector AA, Subsector AA1 to permit coverage for SIO 023.			
If substantially identical to other outfall, list identical outfall ID: 022				
Outfall ID	024 (Sector AA, P, Subsector AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID:  N/A  Pollutant(s) for which there is a TMDL:  N/A
Latitude				
Longitude	Add Sector AA, Subsector AA1 to permit coverage for SIO 024.			
If substantially identical to other outfall, list identical outfall ID: 022				
Outfall ID	025 (Sector AA, P, Subsector AA, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID:  N/A  Pollutant(s) for which there is a TMDL:  N/A
Latitude				
Longitude	Add Sector AA, Subsector AA1 to permit coverage for SIO 025.			
If substantially identical to other outfall, list identical outfall ID: 022				
Outfall ID	026 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID:  N/A  Pollutant(s) for which there is a TMDL:  N/A
Latitude				
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				



Outfall ID	027 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 026				
Outfall ID	028 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 026				
Outfall ID	029 (Sector N, Subsector N2)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	032 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				



Outfall ID	033 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 032				
Outfall ID	034 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 032				
Outfall ID	035 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 032				
Outfall ID	036 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)		TMDL Name and ID: N/A
Latitude	35.867825			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.293388			Remove monitored outfall 036 from permit coverage and NetDMR. Outfall was eliminated effective March 26, 2019.
If substantially identical to other outfall, list identical outfall ID: _____				

Outfall ID	037 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]  Remove 00010 Temperature, water deg. centigrade from list of impairments	TMDL Name and ID: N/A  Pollutant(s) for which there is a TMDL: N/A
Latitude	35.867859			
Longitude	-106.292992			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	039 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centigrade from list of impairments	TMDL Name and ID: N/A  Pollutant(s) for which there is a TMDL: N/A
Latitude				
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	038 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)  Remove SIO 038 from permit coverage. Outfall was eliminated effective April 23, 2019.		TMDL Name and ID: N/A  Pollutant(s) for which there is a TMDL: N/A
Latitude				
Longitude				
If substantially identical to other outfall, list identical outfall ID: 039				
Outfall ID	040 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)  Remove SIO 040 from permit coverage. Outfall was eliminated effective April 23, 2019.		TMDL Name and ID: N/A  Pollutant(s) for which there is a TMDL: N/A
Latitude				
Longitude				
If substantially identical to other outfall, list identical outfall ID: 039				



Outfall ID	042 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	041, Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 042				
Outfall ID	074 (Sector A, Subsector A4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	073 (Sector A, Subsector A4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: 074				



Outfall ID	075 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centigrade from list of impairments	TMDL Name and ID: N/A
Latitude				Pollutant(s) for which there is a TMDL: N/A
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID	076 (Sector AA, Subsector A1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)  Add new monitored outfall 076 to permit coverage and NetDMR. Monitoring began June 1, 2019.	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]	TMDL Name and ID: N/A
Latitude	35.8758507			Pollutant(s) for which there is a TMDL: N/A
Longitude	-106.327924			
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantially identical to other outfall, list identical outfall ID: _____				

4. Provide the following information about your outfall latitude/longitude:

Latitude/Longitude Data Source: ☐ Map ☐ GPS ☐ Other

If you used a USGS topographic map, what was the scale? \_\_\_\_\_

Horizontal Reference Datum: ☐ NAD 27 ☐ NAD 83 ☐ WGS 84

5. Does your facility discharge into a Municipal Separate Storm Sewer System (MS4)? ☐ YES ☐ NO

If yes, provide the name of the MS4 operator: \_\_\_\_\_

6. Check if you discharge to any of the waters of the U.S. that are 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) or as a Tier 3 water (Outstanding National Resource Water)? (See Appendix L).

☐ Tier 2/2.5. Provide the name(s) of receiving water(s): \_\_\_\_\_

☐ Tier 3 (Outstanding National Resource Waters)\*

\* **Note: You are ineligible for coverage if you are a new discharger or new source to waters designated as Tier 3 (outstanding national resource waters) for antidegradation purposes under 40 CFR 131.13(a)(3).**

7. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, what is the hardness of your receiving water(s) (see Appendix J)? \_\_\_\_\_ (mg/L)

8. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, does your facility discharge into any saltwater receiving waters? ☐ YES ☐ NO

9. Does your facility discharge to a federal CERCLA site listed in Appendix P? ☐ YES ☐ NO

If yes, did you notify the EPA Regional Office in advance of filing your NOI, and did the EPA Regional Office determine that you are eligible for permit coverage pursuant to Part 1, 1.4.10\*? ☐ YES ☐ NO

\* **Note: If you discharge to a federal CERCLA site listed in Appendix P, you are ineligible for coverage under this permit unless you notify the EPA Regional Office in advance and the EPA Regional Office determines you are eligible coverage under this permit. In determining your eligibility for coverage under this Part, the EPA Regional Office may evaluate whether you have included adequate controls and/or procedures to ensure that your discharges will not lead to recontamination of aquatic media at the CERCLA Site such that it will cause or contribute to an exceedance of a water quality standard.**

#### F. Stormwater Pollution Prevention Plan (SWPPP) Information

1. Has the SWPPP been prepared in advance of filing this NOI, as required? ☐ YES ☐ NO

2. SWPPP Contact Information:

First Name, Middle Initial, Last Name: \_\_\_\_\_

Professional Title: \_\_\_\_\_

Phone: \_\_\_\_\_

Ext. \_\_\_\_\_

E-mail: \_\_\_\_\_

3. SWPPP Availability:

Your current SWPPP or certain information from your SWPPP must be made available through one of the following two 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) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.**

☐ **Option 1:** Maintain a current copy of your SWPPP on an Internet page (Universal Resource Locator or URL).

Provide the web address URL: \_\_\_\_\_

☐ **Option 2:** Provide the following information from your SWPPP:

A. Describe your onsite industrial activities exposed to stormwater (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams), and potential spill and leak areas:



B. List the pollutant(s) or pollutant constituent(s) associated with each industrial activity exposed to stormwater that could be discharged in stormwater and any authorized non-stormwater discharges listed in Part 1.1.3:

C. Describe the control measures you will employ 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 (see Part 5.2.4):

D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2).

### G. Endangered Species Protection

1. Using the instructions in Appendix E of the MSGP, under which endangered species criterion listed in Part 1.1.4.5 are you eligible for coverage under this permit (only check 1 box)?\*

☐ A      ☐ B      ☐ C      ☐ D      ☐ E

\* Note: After you submit your NOI and before your NOI is authorized, EPA may notify you if any additional controls are necessary to ensure your discharges have no likely adverse effects on listed species and critical habitat.

2. Provide a brief summary of the basis for the criterion selected in Appendix F (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service to determine no species in action area; implementation of controls approved by EPA and the Services):

3. If you select criterion B, provide the NPDES ID from the other operator's NOI authorized under this permit:

1 1 1 1 1 1 1 1

4. If you select criterion C, you must answer the following questions:

a. What federally-listed species or designated critical habitat are located in your "action area":

b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions:

☐ I submitted my completed *Criterion C Eligibility Form* to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse effects on listed species and critical habitat.

Date your *Criterion C Eligibility Form* was sent to EPA:

L I N E I N

Describe any EPA-approved measures you will implement to ensure no likely adverse effects on listed species and critical habitat:

☐ I submitted my completed *Criterion C Eligibility Form* to EPA at least 30 days prior to submitting this NOI and have not been notified of any additional measures necessary to ensure no likely adverse effects on listed species and critical habitat.

Date your Criterion C Eligibility Form was sent to EPA:

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5. If you select criterion D or E, you must attach copies of any letters or other communications with the U.S. Fish and Wildlife Service or National Marine Fisheries Service.



#### H. Historic Preservation

1. If your facility is not located on Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe?

☐ YES      ☐ NO

If yes, provide the name of the Indian tribe associated with the property:

2. Using the instructions in Appendix I of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.6 are you eligible for coverage under this permit (only check 1 box)?

☐ A      ☐ B      ☐ C      ☐ D

### I. 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: Enrique Torres

Title: Division Leader

Signature: \_\_\_\_\_

Date: 06/11/2019

E-mail:	e	t	o	r	r	e	s	@	l	a	n	l	.	g	o	v
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## **Attachment 4**

NetDMR Monitoring Requirements for Los Alamos National  
Laboratory, Operated by Triad National Security, LLC, MSGP  
ID NMR050013

EPC-DO: 19-191

LA-UR-19-25199

Date: JUN 11 2019

						EUS, Modified Benchmark, and Impaired Waters Limits per MSGP Section 9.6.2 and the NM Water Quality Standards (20.6.4.900 NMAC (New Mexico Administrative Code))											
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of Analysis	Impl. Date	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
NMRS00010	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	0104-1-0	Aluminum, total recoverable (as Al)	↔	1010	Maximum	ug/L	1/60	Gr	4/1/2009	5/31/2010	7/31/2010
NMRS00013	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2009	5/31/2010	7/31/2010
NMRS00015	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	51450-1-0	Nitrate Plus Nitrite Total	↔	0.68	Maximum	mg/L	1/60	Gr	4/1/2009	5/31/2010	7/31/2010
NMRS00019	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved (as Zn)	↔	99	Maximum	ug/L	1/60	Gr	4/1/2009	5/31/2010	7/31/2010
NMRS00018	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01041-0-0	Aluminum, total recoverable (as Al)	↔	1010	Maximum	ug/L	1/60	Gr	6/1/2009	7/31/2010	9/30/2010
NMRS00018	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	6/1/2009	7/31/2010	9/30/2010
NMRS00014	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	51450-1-0	Nitrate Plus Nitrite Total	↔	0.68	Maximum	mg/L	1/60	Gr	6/1/2009	7/31/2010	9/30/2010
NMRS00015	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved (as Zn)	↔	99	Maximum	ug/L	1/60	Gr	6/1/2009	7/31/2010	9/30/2010
NMRS00018	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01041-0-0	Aluminum, total recoverable (as Al)	↔	1010	Maximum	ug/L	1/60	Gr	8/1/2009	9/30/2010	11/30/2010
NMRS00014	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	8/1/2009	9/30/2010	11/30/2010
NMRS00014	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	51450-1-0	Nitrate Plus Nitrite Total	↔	0.68	Maximum	mg/L	1/60	Gr	8/1/2009	9/30/2010	11/30/2010
NMRS00019	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved (as Zn)	↔	99	Maximum	ug/L	1/60	Gr	8/1/2009	9/30/2010	11/30/2010
NMRS00013	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01041-0-0	Aluminum, total recoverable (as Al)	↔	1010	Maximum	ug/L	1/60	Gr	10/1/2009	11/30/2010	1/31/2011
NMRS00013	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	10/1/2009	11/30/2010	1/31/2011
NMRS00019	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	51450-1-0	Nitrate Plus Nitrite Total	↔	0.68	Maximum	mg/L	1/60	Gr	10/1/2009	11/30/2010	1/31/2011
NMRS00018	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved (as Zn)	↔	99	Maximum	ug/L	1/60	Gr	10/1/2009	11/30/2010	1/31/2011
NMRS00013	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01041-0-0	Aluminum, total recoverable (as Al)	↔	1010	Maximum	ug/L	1/60	Gr	4/1/2009	5/31/2010	7/31/2010
NMRS00013	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2009	5/31/2010	7/31/2010
NMRS00013	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved (as Cu)	↔	7	Maximum	ug/L	1/60	Gr	4/1/2009	5/31/2010	7/31/2010
NMRS00013	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	38616-1-0	Polychlorinated biphenyls (PCBs)	↔	0.2	Maximum	ug/L	1/60	Gr	4/1/2009	5/31/2010	7/31/2010
NMRS00013	Los Alamos National Laboratory	002	AA	AA1	002-10	11-Fabricated Metal Products, except Coating	00010-1-0	Temperature, water-dep, on-sitegrade	↔	24	Maximum	deg C	1/60	Gr	4/1/2009	5/31/2010	7/31/2010
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	12/1/2019	1/31/2020	3/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	12/1/2019	1/31/2020	3/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	12/1/2019	1/31/2020	3/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	12/1/2019	1/31/2020	3/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	12/1/2019	1/31/2020	3/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	12/1/2019	1/31/2020	3/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	12/1/2019	1/31/2020	3/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	12/1/2019	1/31/2020	3/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	12/1/2019	1/31/2020	3/31/2020
NMRS00013	Los Alamos National Laboratory	005	O	01	005-01	01- Steam Electric Generating Facilities	01045-1-0	Iron, total (as Fe)	↔	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMRS00013																	



						EJC, Modified Benchmark, and Impaired Waters Limits per MSQP Section 9.6.2 and the NM Water Quality Standards (20.6.4.300 NMAC [New Mexico Administrative Code])											
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of Analysis	Typ. Smp. Date	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	«»	1000	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01045-1-0	Nitrite-Plus Nitrate Total	«»	0.68	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	«»	99	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	«»	1010	Maximum	mg/L	1/60	Gr	6/3/2019	7/31/2019	8/30/2019
NMRS00013	Los Alamos National Laboratory	012	AA-2	AA1-F4	017-13	13-Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	«»	7	Maximum	mg/L	1/60	Gr			



Attachment 4 - NetDMR Monitoring Requirements for Los Alamos National Laboratory, Operated by Triad National Security, LLC, MSQP ID NMR050013

Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	EIG, Modified Benchmark, and Impaired Waters Limits per MSQP Section 9.6.2 and the NM Water Quality Standards (20.6.4.903 NMAC (New Mexico Administrative Code))										Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
							Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of Analysis	Smpl. Type					
NMR050013	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr			10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr			10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr			10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr			10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	022	P	P1	022-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	022	P	P1	022-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	022	P	P1	022-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	022	P	P1	022-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg-C	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	026	P	P1	026-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	026	P	P1	026-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	026	P	P1	026-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	026	P	P1	026-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg-C	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	029	N	N2	029-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	029	N	N2	029-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	029	N	N2	029-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	029	N	N2	029-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg-C	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	51931 1 0	Adjusted Gross Alpha	<=	15	Maximum	pCi/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	11	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	71900 1 0	Mercury, total [as Hg]	<=	0.77	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	032	P	P1	032-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	032	P	P1	032-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	032	P	P1	032-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	032	P	P1	032-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg-C	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	036	P	P1	036-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	036	P	P1	036-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	036	P	P1	036-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	036	P	P1	036-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg-C	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	037	P	P1	037-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	037	P	P1	037-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	037	P	P1	037-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	039	P	P1	039-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	039	P	P1	039-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	039	P	P1	039-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	039	P	P1	039-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg-C	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	042	P	P1	042-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	042	P	P1	042-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	042	P	P1	042-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBs)	<=	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	042	P	P1	042-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg-C	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr			4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr			6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr			8/1/2019	9/30/2019	11/30/2019

Attachment 4 - NpDMR Monitoring Requirements for Los Alamos National Laboratory, Operated by Triad National Security, LLC, MSGP ID NMR050013

Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	ELG, Modified Benchmark, and Impaired Waters Limits per MSGP Section 9.6.2 and the NM Water Quality Standards (20.6.4.900 NMAC (New Mexico Administrative Code))										Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
							Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of Analysis	Impl. Type					
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00550 1 D	Solids, total suspended	☞	100	Maximum	mg/L	1/60	Gr			10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00556 1 D	Oil & Grease	☞	10	30-Day Average	mg/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00556 1 D	Oil & Grease	☞	15	Daily Maximum	mg/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00400 1 D	pH	☞	6	Minimum	SU	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00400 1 D	pH	☞	9	Maximum	SU	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00550 1 D	Solids, total suspended	☞	15	30-Day Average	mg/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 D	Solids, total suspended	☞	23	Daily Maximum	mg/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-HW	HW - Impaired Water	01931 1 D	Adjusted Gross Alpha	☞	15	Maximum	pCi/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-HW	HW - Impaired Water	01040 1 D	Copper, dissolved [as Cu]	☞	11	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-HW	HW - Impaired Water	09516 1 D	Polychlorinated biphenyls (PCBs)	☞	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-HW	HW - Impaired Water	71900 1 D	Mercury, total [as Hg]	☞	0.77	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 D	Chemical Oxygen Demand (COD)	☞	120	Maximum	mg/L	1/60	Gr			4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 D	Solids, total suspended	☞	100	Maximum	mg/L	1/60	Gr			4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 D	Chemical Oxygen Demand (COD)	☞	120	Maximum	mg/L	1/60	Gr			4/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 D	Solids, total suspended	☞	100	Maximum	mg/L	1/60	Gr			4/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 D	Chemical Oxygen Demand (COD)	☞	120	Maximum	mg/L	1/60	Gr			4/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 D	Solids, total suspended	☞	100	Maximum	mg/L	1/60	Gr			4/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 D	Chemical Oxygen Demand (COD)	☞	120	Maximum	mg/L	1/60	Gr			10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 D	Solids, total suspended	☞	100	Maximum	mg/L	1/60	Gr			10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	074	A	A4	074-HW	HW - Impaired Water	01104 1 D	Aluminum, total recoverable [as Al]	☞	1010	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	074	A	A4	074-HW	HW - Impaired Water	01040 1 D	Copper, dissolved [as Cu]	☞	7	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	074	A	A4	074-HW	HW - Impaired Water	09516 1 D	Polychlorinated biphenyls (PCBs)	☞	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	074	A	A4	074-HW	HW - Impaired Water	00203 1 D	Temperature, water-dog, sand/grade	☞	24	Maximum	deg-C	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	075	P	P1	075-HW	HW - Impaired Water	01104 1 D	Aluminum, total recoverable [as Al]	☞	1010	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	075	P	P1	075-HW	HW - Impaired Water	01040 1 D	Copper, dissolved [as Cu]	☞	7	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	075	P	P1	075-HW	HW - Impaired Water	09516 1 D	Polychlorinated biphenyls (PCBs)	☞	0.2	Maximum	ug/L	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	075	P	P1	075-HW	HW - Impaired Water	00203 1 D	Temperature, water-dog, sand/grade	☞	24	Maximum	deg-C	1/YR	Gr			4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 D	Aluminum, total recoverable [as Al]	☞	1010	Maximum	ug/L	1/60	Gr			4/1/2020	5/31/2020	7/31/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 D	Iron, total [as Fe]	☞	1000	Maximum	mg/L	1/60	Gr			4/1/2020	5/31/2020	7/31/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	51450 1 D	Nitrite Plus Nitrate Total	☞	0.68	Maximum	mg/L	1/60	Gr			4/1/2020	5/31/2020	7/31/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01090 1 D	Zinc, dissolved [as Zn]	☞	99	Maximum	ug/L	1/60	Gr			4/1/2020	5/31/2020	7/31/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 D	Aluminum, total recoverable [as Al]	☞	1010	Maximum	ug/L	1/60	Gr			4/1/2020	7/31/2020	9/30/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 D	Iron, total [as Fe]	☞	1000	Maximum	mg/L	1/60	Gr			4/1/2020	7/31/2020	9/30/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	51450 1 D	Nitrite Plus Nitrate Total	☞	0.68	Maximum	mg/L	1/60	Gr			4/1/2020	7/31/2020	9/30/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01090 1 D	Zinc, dissolved [as Zn]	☞	99	Maximum	ug/L	1/60	Gr			4/1/2020	7/31/2020	9/30/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 D	Aluminum, total recoverable [as Al]	☞	1010	Maximum	ug/L	1/60	Gr			4/1/2020	9/30/2020	11/30/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 D	Iron, total [as Fe]	☞	1000	Maximum	mg/L	1/60	Gr			4/1/2020	9/30/2020	11/30/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	51450 1 D	Nitrite Plus Nitrate Total	☞	0.68	Maximum	mg/L	1/60	Gr			4/1/2020	9/30/2020	11/30/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01090 1 D	Zinc, dissolved [as Zn]	☞	99	Maximum	ug/L	1/60	Gr			4/1/2020	9/30/2020	11/30/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 D	Aluminum, total recoverable [as Al]	☞	1010	Maximum	ug/L	1/60	Gr			4/1/2020	11/30/2020	1/31/2021
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 D	Iron, total [as Fe]	☞	1000	Maximum	mg/L	1/60	Gr			4/1/2020	11/30/2020	1/31/2021
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	51450 1 D	Nitrite Plus Nitrate Total	☞	0.68	Maximum	mg/L	1/60	Gr			4/1/2020	11/30/2020	1/31/2021
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01090 1 D	Zinc, dissolved [as Zn]	☞	99	Maximum	ug/L	1/60	Gr			4/1/2020	11/30/2020	1/31/2021
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 D	Aluminum, total recoverable [as Al]	☞	1010	Maximum	ug/L	1/YR	Gr			4/1/2020	11/30/2020	1/31/2021
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 D	Copper, dissolved [as Cu]	☞	7	Maximum	ug/L	1/YR	Gr			4/1/2020	11/30/2020	1/31/2021



Attachment 4 - NetDMR Monitoring Requirements for Los Alamos National Laboratory, Operated by Triad National Security, LLC, MSGP ID NMR050013

							ELG, Modified Benchmark, and Impaired Waters Limits per MSGP Section 9.6.2 and the NM Water Quality Standards (20.6.4.900 NMAC [New Mexico Administrative Code])										
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of Analysis	Smpl. Type	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-W	WW - Impaired Water	39516 1 0	Polychlorinated biphenyls (PCBN)	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
Additions to NOI and NetDMR are in <b>BOLD</b> . Deletions from NOI and NetDMR are indicated by strikethrough. Regular text indicates no change to NOI or NetDMR.																	

## ATTACHMENT 2: SWPPP AMENDMENTS

Date	Plan Section	Reason for Amendment	Amendment
Jan 2019	All	New MSGP Plan for new Laboratory Contract.	New MSGP Plan for Triad, LLC (replacing LANS, LLC.
Jan 2020	All	Implementation of the new SWPPP template as required by EPC-CP-QP-2110, <i>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</i> . Also included all inspections, assessments and reports required for the yearly update.	Inserted new template language to standardize all MSGP SWPPPs and inserted all required documentation for the yearly revision.
Jan 2021	All	Included all inspections, assessments and reports required for the yearly update.	Inserted all required documentation for the yearly revision. Included new stormwater controls installed in 2020.

**ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES**



MSGP Permit Tracking Number: NMR050013

**ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM**



***Environmental Protection & Compliance  
Division***

Los Alamos National Laboratory  
PO Box 1663, K490  
Los Alamos, NM 87545  
505-667-0666

*Symbol:* EPC-DO: 18-453  
*LAUR:* 18-31574  
*Date:* **DEC 11 2018**

Ms. Anne L. Idsal, Regional Administrator  
U.S. Environmental Protection Agency, Region 6  
1445 Ross Avenue, Suite 1200  
Mail Code: 6RA  
Dallas, TX 75202-2733

**Subject: Notification of Triad National Security, LLC, Signatory Officials and  
Authorized Representatives for NPDES Permits**

Dear Ms. Idsal:

The purpose of this letter is to provide an update to the U. S. Environmental Protection Agency (EPA) Region 6 on the Triad National Security, LLC delegation of authority for signature of documents associated with the various Los Alamos National Laboratory (LANL) NPDES Permits, pursuant to 40 CFR 122.22(c). This letter supersedes and replaces the signatory authority letter dated March 14, 2018 (ADESH: 18-017).

The positions of Associate Laboratory Director of Environment, Safety, Health & Quality and Safeguards & Security (ESHQSS), and Division Leader of the Environmental Protection & 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 Notice of Intent (NOIs)) required under the LANL NPDES Industrial Point Source Outfall Permit (Permit No. NM0028355), the NPDES Storm Water Construction General Permit, the NPDES Multi-Sector General Permit (Permit No. NMR050013), and the NPDES Pesticide General Permit (Permit No. NMG87B113).

The following positions are hereby designated as authorized representatives under 40 CFR 122.22(b) to sign reports, Storm Water 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 Environmental Compliance Programs Group.
- Responsible Facility Operations Director (FOD).

**NPDES Construction General Permit:**

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

**NPDES Multi-Sector General Permit (ID No. NMR053195)**

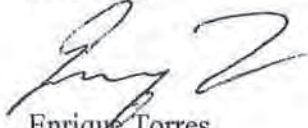
- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Environmental Compliance Programs Group.
- Division Leader, Deputy Division Leader, or Group Leader of the LANL division responsible for the overall operation of the regulated facility or activity.
- Responsible FOD; Deputy FOD, Operations Manager; or Deployed Environment, Safety, & Health Manager responsible for the overall operation of the regulated facility or activity.

**NPDES Pesticide General Permit (No. NM687A041)**

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

If you have questions, please contact me at (505) 667-7269 or at [etorres@lanl.gov](mailto:etorres@lanl.gov).

Sincerely,



Enrique Torres  
Division Leader  
Environmental Protection & Compliance Division

ET/TWL/MTS:jdm

EPC-DO: 18-453  
Ms. Anne L. Idsal

DEC 11 2018

Page 3

Attachment(s): None.

Copy: Nancy Williams, USEPA, Region 6, [williams.nancy@epa.gov](mailto:williams.nancy@epa.gov), (E-File)  
Brent E. Larsen, USEPA, Region 6, [Larsen.brent@epa.gov](mailto:Larsen.brent@epa.gov), (E-File)  
Robert Houston, USEPA, Region 6, [Houston.robert@epa.gov](mailto:Houston.robert@epa.gov), (E-File)  
Sarah Holcomb, NMED, [sarah.holcomb@state.nm.us](mailto:sarah.holcomb@state.nm.us), (E-File)  
Karen E. Armijo, LASO-MA-LS, [Karen.armijo@nnsa.doe.gov](mailto:Karen.armijo@nnsa.doe.gov), (E-File)  
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Michael W. Hazen, ESHQSS, [mhazen@lanl.gov](mailto:mhazen@lanl.gov), (E-File)  
William R. Mairson, ESHQSS, [wrmairson@lanl.gov](mailto:wrmairson@lanl.gov), (E-File)  
Enrique Torres, EPC-DO, [etorres@lanl.gov](mailto:etorres@lanl.gov), (E-File)  
Taunia Van Valkenburg, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov), (E-File)  
Michael T. Saladen, EPC-CP, [saladen@lanl.gov](mailto:saladen@lanl.gov), (E-File)  
Terrill W. Lemke, EPC-CP, [tlemke@lanl.gov](mailto:tlemke@lanl.gov), (E-File)  
Tim Dolan, GC-ESH, [tdolan@lanl.gov](mailto:tdolan@lanl.gov), (E-File)  
[emla.docs@em.doe.gov](mailto:emla.docs@em.doe.gov), (E-File)  
[locatesteam@lanl.gov](mailto:locatesteam@lanl.gov), (E-File)  
[epc-correspondence@lanl.gov](mailto:epc-correspondence@lanl.gov), (E-File)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov), (E-File)

**ATTACHMENT 5: DISCHARGE MONITORING REPORTS**



DMR Copy of Record

Permit

Permit #:NMR050013

Major:No

Permitted Feature:026  
External Outfall

Permittee:TRIAD NATIONAL SECURITY LLC

Permittee Address:PO BOX 1663 MS K490  
LOS ALAMOS, NM 87545

Discharge:026-IW  
Impaired Water

Facility:LOS ALAMOS NATIONAL LABORATORY

Facility Location:PO BOX 1663  
LOS ALAMOS, NM 87545

Report Dates & Status

Monitoring Period:From 12/01/19 to 11/30/20

DMR Due Date:01/31/21

Status:NetDMR Validated

Considerations for Form Completion

Yearly based upon the alternate monitoring season of April 1 through November 30.

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
X 01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample								23.8	28 - ug/L	1	01/YR - Annual	GR - GRAB			
					Permit Req.									<=		7.0 MAXIMUM	28 - ug/L	01/YR - Annual	GR - GRAB	
					Value NODI															
01104	Aluminum, total recoverable	1 - Effluent Gross	0	--	Sample								498.0	28 - ug/L	0	01/YR - Annual	GR - GRAB			
					Permit Req.									<=		1010.0 MAXIMUM	28 - ug/L	01/YR - Annual	GR - GRAB	
					Value NODI															
39516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	0	--	Sample											01/YR - Annual	GR - GRAB			
					Permit Req.													<=	0.2 MAXIMUM	28 - ug/L
					Value NODI														B - Below Detection Limit/No Detection	

Submission Note

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

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01040	Copper, dissolved [as Cu]	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. (Error Code: 1 )	Yes

Comments

LA-UR-20-30425. The impaired water pollutant Cu exceeded the New Mexico Water Quality Standard.

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:2020-12-22 16:00 (Time Zone: -06:00)

Report Last Signed By

User:TERRILLEMKE

Name:Terrill Lemke

E-Mail:tlemke@lanl.gov

Date/Time:2020-12-22 16:44 (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 MS K490 LOS ALAMOS, NM 87545	Facility Location:	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	075 External Outfall	Discharge:	075-IW Impaired Water		

### Report Dates & Status

Monitoring Period:	From 12/01/19 to 11/30/20	DMR Due Date:	01/31/21	Status:	NetDMR Validated
--------------------	---------------------------	---------------	----------	---------	------------------

### Considerations for Form Completion

Yearly based upon the alternate monitoring season of April 1 through November 30.

### 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
X 01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample								32.3	28 - ug/L	1	01/YR - Annual	GR - GRAB			
					Permit Req.															
					Value NODI															7.0 MAXIMUM
X 01104	Aluminum, total recoverable	1 - Effluent Gross	0	--	Sample								7940.0	28 - ug/L	1	01/YR - Annual	GR - GRAB			
					Permit Req.															
					Value NODI															1010.0 MAXIMUM
39516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	0	--	Sample									28 - ug/L		01/YR - Annual	GR - GRAB			
					Permit Req.															
					Value NODI															0.2 MAXIMUM
													B - Below Detection Limit/No Detection							

### Submission Note

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

### Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01040	Copper, dissolved [as Cu]	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. (Error Code: 1 )	Yes
01104	Aluminum, total recoverable	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. (Error Code: 1 )	Yes

### Comments

LA-UR-20-30425. The impaired water pollutants Al and Cu exceeded the New Mexico Water Quality Standard.

### 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:	2020-12-22 16:00 (Time Zone: -06:00)

### Report Last Signed By

User:	TERRILLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2020-12-22 16:44 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:  
Major:

NMR050013  
No

Permittee:  
Permittee Address:

TRIAD NATIONAL SECURITY LLC  
PO BOX 1663 MS K490  
LOS ALAMOS, NM 87545

Facility:  
Facility Location:

LOS ALAMOS NATIONAL LABORATORY  
PO BOX 1663  
LOS ALAMOS, NM 87545

Permitted Feature:

026  
External Outfall

Discharge:

026-IW  
Impaired Water

Report Dates & Status

Monitoring Period:

From 12/01/18 to 11/30/19

DMR Due Date:

01/31/20

Status:

NetDMR Validated

Considerations for Form Completion

Yearly based upon the alternate monitoring season of April 1 through November 30.

Principal Executive Officer

First Name:  
Last Name:

Title:

Telephone:

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
X 01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample											9.67	28 - ug/L
					Permit Req. Value NODI											<=	7.0 MAXIMUM
																	28 - ug/L 1
X 01104	Aluminum, total recoverable	1 - Effluent Gross	0	--	Sample											2350.0	28 - ug/L
					Permit Req. Value NODI											<=	1010.0 MAXIMUM
																	28 - ug/L 1
39516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	0	--	Sample											<	0.034
					Permit Req. Value NODI											<=	0.2 MAXIMUM
																	28 - ug/L 0

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					
01040	Copper, dissolved [as Cu]	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes
01104	Aluminum, total recoverable	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

Comments

LA-UR-19-32659. The impaired water pollutants Al and Cu exceeded the New Mexico Water Quality Standard. The impaired water pollutant total Aroclor was not detected in stormwater discharge from this outfall therefore annual monitoring will be discontinued per Part 6.2.4.1.

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:

2020-01-09 09:00 (Time Zone: -06:00)

Report Last Signed By

TERRILLEMKE

User:

Terrill Lemke

Name:

tlmke@lanl.gov

E-Mail:

tlmke@lanl.gov

Date/Time:

2020-01-09 13:29 (Time Zone: -06:00)



DMR Copy of Record

Permit

Permit #:

NMR050013

Major:

No

Permitted Feature:

075  
External Outfall

Permittee:

TRIAD NATIONAL SECURITY LLC

Permittee Address:

PO BOX 1663 MS K490  
LOS ALAMOS, NM 87545

Discharge:

075-IW  
Impaired Water

Facility:

LOS ALAMOS NATIONAL LABORATORY

Facility Location:

PO BOX 1663  
LOS ALAMOS, NM 87545

Report Dates & Status

Monitoring Period:

From 12/01/18 to 11/30/19

DMR Due Date:

01/31/20

Status:

NetDMR Validated

Considerations for Form Completion

Yearly based upon the alternate monitoring season of April 1 through November 30.

Principal Executive Officer

First Name:

Last Name:

Title:

Telephone:

No Data Indicator (NODI)

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading			Quality or Concentration				# of Ex.	Frequency of Analysis	Sample Type									
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units							
X01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample											37.0	28 - ug/L		01/YR - Annual	GR - GRAB				
					Permit Req. Value NODI																	01/YR - Annual	GR - GRAB	
X01104	Aluminum, total recoverable	1 - Effluent Gross	0	--	Sample											5760.0	28 - ug/L		01/YR - Annual	GR - GRAB				
					Permit Req. Value NODI																	01/YR - Annual	GR - GRAB	
39516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	0	--	Sample											<	0.0351	28 - ug/L		01/YR - Annual	GR - GRAB			
					Permit Req. Value NODI																		01/YR - Annual	GR - GRAB

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					
01040	Copper, dissolved [as Cu]	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes
01104	Aluminum, total recoverable	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

Comments

LA-UR-19-32659. The impaired water pollutants Al and Cu exceeded the New Mexico Water Quality Standard. The impaired water pollutant total Aroclor was not detected in stormwater discharge from this outfall therefore annual monitoring will be discontinued per Part 6.2.4.1.

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:

2020-01-09 09:00 (Time Zone: -06:00)

Report Last Signed By

TERRILLEMKE

User:

Terrill Lemke

Name:

terill Lemke

E-Mail:

tlemke@lanl.gov

Date/Time:

2020-01-09 13:29 (Time Zone: -06:00)

## **ATTACHMENT 6: ANNUAL REPORTS**



Los Alamos National Laboratory  
PO Box 1663, K490  
Los Alamos, NM 87545  
505-667-0666

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

Symbol: EPC-DO: 21-039  
LAUR: 21-20731

Date: **JAN 28 2021**

Stormwater Notice Processing Center  
Mail code 4203M, ATTN: 2015 MSGP Reports  
U.S. EPA  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

**Subject: National Pollutant Discharge elimination System (NPDES) Permit Tracking No. NMR050013, 2020 Multi-Sector General Permit (MSGP) Annual Report for Los Alamos National Laboratory (LANL)**

To Whom It May Concern:

Enclosed is the 2020 MSGP Annual Report (Attachment 1) submitted by Triad National Security, LLC (Triad) for Los Alamos National Laboratory as required by Part 7.5 of the MSGP.

EPA's Electronic Reporting Rule requires that the Annual Report be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to unique conditions related to LANL's monitoring requirements, LANL's NOI was not generated on NeT-MSGP, thus LANL is unable to submit the Annual Report electronically. Correspondence from Nasim Jahan (EPA Region 6) and Emily Hack (NPDES eReporting Help Desk) are included as Attachments 2 and 3, respectively.

Please contact Terrill Lemke at (505) 665-2397 or Holly Wheeler at (505) 667-1312 if you have questions.

Sincerely,

Terrill Lemke  
Storm Water Team Leader

Attachment(s): Attachment 1 National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013 Multi-Sector General Permit (MSGP) 2020 Annual Report  
Attachment 2 Email correspondence from Nasim Jahan dated 9/26/2018  
Attachment 3 Email correspondence from Emily Hack dated 10/26/2018



Copy: Sarah Holcomb, NMED/SWQB, [sarah.holcomb@state.nm.us](mailto:sarah.holcomb@state.nm.us)  
Nasim Jahan, USEPA, Region 6, [jahan.nasim@epa.gov](mailto:jahan.nasim@epa.gov)  
Karen E. Armijo, NA-LA, [karen.armijo@nnsa.doe.gov](mailto:karen.armijo@nnsa.doe.gov)  
Maxine McReynolds, GC-ESH, [mcreynolds@lanl.gov](mailto:mcreynolds@lanl.gov)  
Taunia Van Valkenburg, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov)  
Leslie Dale, EPC-CP, [leslie@lanl.gov](mailto:leslie@lanl.gov)  
Holly Wheeler, EPC-CP, [hbenson@lanl.gov](mailto:hbenson@lanl.gov)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov)

# **ATTACHMENT 1**

**National Pollutant Discharge Elimination System  
(NPDES) Permit Tracking No. NMR050013  
Multi-Sector General Permit (MSGP) 2020  
Annual Report**

**EPC-DO: 21-039**

**LA-UR: 21-20731**

**Date: JAN 28 2021**

**A. Approval to Use Paper Annual Report Form**1. Have you been granted a waiver from electronic reporting from the EPA Regional Office\*? ☐ YES ☐ NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

Waiver granted: ☐ The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.☒ The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver:

N a s i m J a h a n

Date approval  
obtained:

09 / 26 / 2018

\* Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper annual report form. If you have not obtained a waiver, you must file this form electronically using the NPDES eReporting Tool (NeT) at <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPA-MultiSector-General-Permit.cfm>

**B. Permit Information**

1. NPDES ID:

N M R 0 5 0 0 1 3

**C. Facility Information**

1. Facility Name:

L o s A l a m o s N a t i o n a l L a b o r a t o r y

2. Facility Phone:

5 0 5 - 6 6 5 - 2 3 9 7 Ext.

3. Facility Mailing Address:

Street:

P O B o x 1 6 6 3 K 4 9 0

City:

L o s A l a m o s

State: N M

ZIP  
Code:

8 7 5 4 5 -

County or Similar Government Subdivision:

L o s A l a m o s

4. Point of Contact:

First Name, Middle Initial, Last Name:

T e r r i l l

W

L e m k e

**D. General Findings**

1. Provide a summary of your past year's routine facility inspection documentation (see Part 3.1.2 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 8.5.8.1 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 2015." (Note: Operators of airport facilities that are complying with Part 8.5.8.1 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 6 different Sectors (A, D, N, O, P, and AA). Permit coverage became effective on November 1, 2018. All 9 active sites were inspected according 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 January 1, 2020 and December 31, 2020. A summary of inspections/evaluations and associated corrective actions are included in Table 1. An evaluation of analytical monitoring data and summary of results for the 2020 calendar year is included in Table 2.



2. Provide a summary of your past year's quarterly visual assessment documentation (see Part 3.2.2 of the permit).

A total of 87 visual assessments were completed at 27 different outfalls. No evidence of pollutants were observed.

3. For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, provide your rationale for why you believe no further reductions are achievable (see Part 6.2.1.2 of the permit). Enter "NA" if not applicable.

N/A

4. Provide a summary of your past year's corrective action documentation (See Part 4.4 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).) 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 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, and (3) control measures that were inadequate to meet the non-numeric effluent limitations. One corrective action is not yet complete at the time of annual report submission (see Table 3).

Regarding incidents of noncompliance, 16 monitored constituents from different outfalls exceeded an individual New Mexico Water Quality Standard (NM WQS) (see Table 1). Corrective actions to address these exceedances have been completed.

### E. 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: T e r r i l l W L e m k e

Title: S t o r m W a t e r T e a m L e a d e r

Signature:  Date: 01 / 28 / 2021

E-mail: t l e m k e @ l a n l . g o v

Table 1. Summary of Inspections and Associated Corrective Actions

Facility	Status	Inspections Conducted Between 1/1/2020 and 12/31/2020	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)	Incidents of Noncompliance [New Mexico Water Quality Standard (NM WQS) Exceedances]	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value	Total Corrective Actions by Facility
TA-3-22 Power and Steam Plant	Active	12	6	11	11	—	5	8	41
TA-3-29 Indoor TSD	No Exposure	1	—	—	—	—	—	—	—
TA-3-29 Machine Shop	No Exposure	1	—	—	—	—	—	—	1
TA-3-30 Warehouse	No Exposure	1	—	—	1	—	—	—	1
TA-3-32 Metal Shop	No Exposure	1	—	—	1	—	—	—	—
TA-3-34 Metal Shop	No Exposure	1	—	—	—	—	—	—	7
TA-3-38 Carpenter Shop	Active	12	—	—	6	—	1	—	38
TA-3-38 Metals Fabrication Shop	Active	12	1	6	23	—	2	6	5
TA-3-39 and 102 Metal Shop	No Exposure	1	1	—	4	—	—	—	—
TA-3-40, Room 1315 Machine Shop	No Exposure	1	—	—	—	—	—	—	10
TA-3-66 Sigma Facility	No Exposure	1	—	1	9	—	—	—	1
TA-3-2206 Warehouse	No Exposure	1	—	—	1	—	—	—	2
TA-9-28 Heavy Equipment Maintenance	No Exposure	1	2	—	—	—	—	—	—
TA-14-23 Burn Cage	No Exposure	1	—	—	—	—	—	—	—
TA-15-185 Phermex	No Exposure	1	—	—	—	—	—	—	—
TA-15-313 Machine Shop	No Exposure	1	—	1	—	—	—	—	1
TA-16 Stockpile Area	Active	3	—	—	1	—	—	—	1
TA-22-52 Machine Shop	No Exposure	1	—	1	1	—	—	—	2
TA-33-39 Machine Shop	No Exposure	1	—	2	4	—	—	—	6
TA-33-113 Machine Shop	No Exposure	1	—	—	1	—	—	—	1
TA-35-2 Machine Shop	No Exposure	1	—	—	—	—	—	—	—
TA-35-125 Machine Shop	No Exposure	1	—	—	1	—	—	—	1
TA-35-213 Target Fabrication Facility	No Exposure	1	—	—	2	—	—	—	2
TA-46-31 Machine Shop	No Exposure	1	—	—	2	—	—	—	—
TA-46-77 Machine Shop	No Exposure	1	—	—	—	—	—	—	1
TA-48-8 Machine Shop	No Exposure	1	—	—	1	—	—	—	1
TA-50-54 Machine Shop	No Exposure	1	—	—	1	—	—	—	—
TA-50-69 WCRFF	No Exposure	1	—	—	—	—	—	—	1
TA-53-2 Machine Shop	No Exposure	1	—	—	1	—	—	—	1
TA-53-16 Machine Shop	No Exposure	1	—	—	1	—	—	—	—
TA-53-26 Machine Shop	No Exposure	1	—	—	—	—	—	—	—
TA-54-38 Indoor TSD	No Exposure	1	—	—	—	—	—	—	—
TA-54 RANT	No Exposure	1	—	—	—	—	—	—	—
TA-55-3 Metal Shop	No Exposure	1	—	—	—	—	—	—	—



Facility	Status	Inspections Conducted Between 1/1/2020 and 12/31/2020	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)	Incidents of Noncompliance [New Mexico Water Quality Standard (NM WQS) Exceedances]	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value	Total Corrective Actions by Facility
TA-55-PF-4 Indoor TSD	No Exposure	1	—	—	—	—	—	—	—
TA-55-5 Warehouse	No Exposure	1	—	—	—	—	—	—	—
TA-55-268 Warehouse	No Exposure	1	—	—	—	—	—	—	—
TA-55-314 Warehouse	No Exposure	1	—	—	—	—	—	—	—
TA-55-355 TSD	No Exposure	1	—	—	—	—	—	—	—
TA-55-432 Warehouse	No Exposure	1	—	—	—	—	—	—	—
TA-55 Outdoor TSD	No Exposure	1	—	—	—	—	—	—	5
TA-60 Asphalt Batch Plant	Active	12	4	—	1	—	—	—	4
TA-60 MRF	Active	12	1	—	2	—	1	—	28
TA-60 Roads and Grounds	Active	12	9	5	13	—	3	7	67
TA-60-1 Heavy Equipment Yard	Active	12	19	11	27	—	3	—	14
TA-60-2 Warehouse	Active	12	1	2	8	—	—	—	—
TA-63 Transuranic Waste Facility	No Exposure	1	—	—	—	—	—	—	—
Totals		137	44	40	123	0	16	21	244

TA= Technical Area

TSD = Treatment, storage and disposal

WCRRF = Waste Characterization, Reduction, and Repackaging Facility

RANT=Radioassay and Nondestructive Testing

PF = Plutonium Facility

MRF = Material Recycling Facility

Table 2. Summary of Monitoring Results

Permitted Facility	Outfall	Monitoring Type	Pollutant(s)	Monitoring Status	Reason
TA-3-22 Power & Steam Plant	005	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-3-22 Power & Steam Plant	005	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-22 Power & Steam Plant	005	Quarterly Benchmark	Total Fe	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark.
TA-3-22 Power & Steam Plant	009	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-22 Power & Steam Plant	009	Quarterly Benchmark	Total Fe	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark.
TA-3-22 Power & Steam Plant	012	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-22 Power & Steam Plant	012	Impaired Waters	Total Aroclor	Discontinued	Part 6.2.4.1. The pollutant of concern was not detected and not expected to be present in discharge.
TA-3-22 Power & Steam Plant	012	Quarterly Benchmark	Total Fe	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark.
TA-3-38 Carpenter Shop	074	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-3-38 Carpenter Shop	074	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-38 Metals Fab Shop	076	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-3-38 Metals Fab Shop	076	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-38 Metals Fab Shop	076	Quarterly Benchmark	NO3+NO2-N, total recoverable Al	Discontinued	Per Part 6.2.1.2, the average of four quarterly monitoring values does not exceed the benchmark.
TA-3-38 Metals Fab Shop	076	Quarterly Benchmark	Total Fe	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark.
TA-3-38 Metals Fab Shop	076	Quarterly Benchmark	Total Zn	Continued	The average of four quarterly monitoring values exceeds the benchmark.
TA-3-38 Metals Fab Shop	077	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-3-38 Metals Fab Shop	077	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-38 Metals Fab Shop	077	Impaired Waters	Total Aroclor	Discontinued	Part 6.2.4.1. The pollutant of concern was not detected and not expected to be present in discharge.
TA-3-38 Metals Fab Shop	077	Quarterly Benchmark	NO3+NO2-N, total Zn	Continued	Fewer than four quarterly monitoring values have been collected, however the average does not exceed the benchmark.
TA-3-38 Metals Fab Shop	077	Quarterly Benchmark	Total recoverable Al, total Fe	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark.
TA-60 Asphalt Batch Plant	043	Effluent Limitations Guidelines	Oil and Grease, TSS, pH	Continued	Monitoring is required annually. No discharge occurred at outfall 043 during the 2020 monitoring season.
TA-60 Asphalt Batch Plant	043	Impaired Waters	Dissolved Cu, Adjusted Gross Alpha	Continued	No discharge occurred at outfall 043 during the 2020 monitoring season.
TA-60 Asphalt Batch Plant	043	Quarterly Benchmark	TSS	Continued	No discharge occurred at outfall 043 during the 2020 monitoring season.
TA-60 MRF	029	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 MRF	029	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-60 Roads and Grounds	031	Impaired Waters	Dissolved Cu, Adjusted Gross Alpha	Continued	No discharge occurred at outfall 031 during the 2020 monitoring season.
TA-60 Roads and Grounds	032	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration below the Water Quality Standard.

Permitted Facility	Outfall	Monitoring Type	Pollutant(s)	Monitoring Status	Reason
TA-60 Roads and Grounds	032	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 Roads and Grounds	037	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	No discharge occurred at outfall 037 during the 2020 monitoring season.
TA-60 Roads and Grounds	039	Impaired Waters	Total Aroclor, total recoverable Al, dissolved Cu	Continued	No discharge occurred at outfall 039 during the 2020 monitoring season.
TA-60 Roads and Grounds	042	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	No discharge occurred at outfall 042 during the 2020 monitoring season.
TA-60-1 Heavy Equipment Yard	022	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60-1 Heavy Equipment Yard	022	Quarterly Benchmark	NO3+NO2-N, total recoverable Al, total Fe, dissolved Zn	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark.
TA-60-2 Warehouse	026	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-60-2 Warehouse	026	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60-2 Warehouse	075	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-16 Stockpile Area	078	Impaired Waters	Adjusted Gross Alpha	Continued	No discharge occurred at outfall 078 during the 2020 monitoring season.

Al = Aluminum

Cu = Copper

NO3+NO2-N = Nitrate-Nitrite as Nitrogen

Fe = Iron

TSS = Total Suspended Solids

Zn = Zinc

NM WQS= New Mexico Water Quality Standard

MRF = Material Recycling Facility



Table 3. Summary of Outstanding Correction Actions

Facility Description	Inspection Date	Inspection Type Description	Finding Description	Problem Description	Corrective Action Description	Completed	Date Corrective Action was Initiated	Expected Completion Date
TA-60-2 Warehouse	09/04/2020	Routine Facility Inspection	Control measures inadequate to meet non-numeric effluent limitations	<p>On 9/4/2020 evaluation of the TA-60-2 Warehouse identified an area needing corrective action at the northeast corner of the facility where stormwater discharges to a trench drain and culvert. The asphalt in the area is severely damaged, exposing sediment, including a large bare area up gradient of the trench drain. The trench drain was damaged and partially buried in sediment.</p> <p>Repair of the drainage feature and permanent stabilization of the area was determined to be needed. There is no evidence of sediment migration past this structure.</p>	<p>Permanent stabilization will be accomplished with installation of concrete around the trench drain and new asphalt for the up gradient areas where there is currently loose soil. An additional section of bare soil located outside the facility but upstream of the trench drain will also be seeded and stabilized with Turf Reinforcement Mat. The trench drain will be repaired and secured with concrete. This is a significant level of effort that requires planning and execution of LANL facility work approval processes.</p> <p>On 9/8/2020 a walk down with a facility grounds superintendent was performed and he installed the temporary sediment controls on 9/9/2020. On 9/10/2020 a Facility Service Request was submitted to engage the appropriate entities for work planning. On 9/28/2020 a full cost estimate was provided to the facility owning organization. On 10/6/2020 an Excavation Permit (EX-ID), which is required to perform soil disturbing activities at LANL, was submitted for required Subject Matter Expert review (water/waste/biological considerations etc).</p> <p>Additional delays were encountered due to the identification of this issue in close proximity to the end of the federal fiscal year (Sept 30). The LANL organization performing the repairs requested funding from the facility owning organization but funding for this project was delayed with the start of the new fiscal year (Oct 1). Funding was resolved.</p> <p>A 45 day extension request letter, pursuant to Part 4.3.2 of the 2015 MSGP, was sent to EPA Region 6 on October 16, 2020, providing a rationale and proposed schedule for completion of this corrective action by 11/30/2020.</p> <p>Triad was on schedule to meet the original 11/30/2020 completion date. However, currently the state of New Mexico is experiencing a significant increase in COVID-19 cases and this situation is also impacting LANL operations. Recently, LANL has seen a sharp increase in COVID-19 cases, including the highest number recorded any week during the pandemic. This has had a dramatic effect on the availability of personnel assigned to perform the referenced MSGP corrective action. Additional work restrictions have also been implemented to minimize the total number of workers on-site and potential exposure to COVID-19.</p> <p>Since delays associated with COVID-19 are anticipated to push the completion schedule into winter, weather impacts will also affect the completion date. Winter temperatures prohibit the production and placement of asphalt necessary to complete this work. Therefore, completion is scheduled for April, 2021 when temperatures and hopefully the COVID-19 situation will enable completion.</p> <p>On 11/24/2020 another letter requesting a schedule modification was sent to EPA Region 6.</p>	No	09/04/2020	4/30/2021

## **ATTACHMENT 2**

Email correspondence from Nasim Jahan dated  
9/26/2018

EPC-DO: 21-039

LA-UR: 21-20731

Date: JAN 28 2021

**From:** [Lemke, Terrill W](#)  
**To:** [Dolan, Timothy Aloysius](#); [Dale, Leslie J](#); [Wheeler, Holly Lynn](#)  
**Subject:** FW: Request for LANL Paper MSGP NOI Waiver  
**Date:** Wednesday, September 26, 2018 4:15:53 PM

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FYI

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

**From:** Jahan, Nasim <Jahan.Nasim@epa.gov>  
**Sent:** Wednesday, September 26, 2018 2:43 PM  
**To:** Lemke, Terrill W <tlemke@lanl.gov>  
**Cc:** Emily Gorman <emily@avanticorporation.com>  
**Subject:** RE: Request for LANL Paper MSGP NOI Waiver

Dear Mr. Terrill:

EPA, Region 6 is approving your request for paper submission as the facility is unable to submit the NOI online.. Please mail the hardcopies to the following address:

**For Regular U.S. Mail Delivery:**

Stormwater Notice Processing Center  
Mail Code 4203M, ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

**For Overnight/Express U.S. Mail Delivery:**

Stormwater Notice Processing Center  
William Jefferson Clinton East Building – Room 7420  
ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1201 Constitution Avenue, NW  
Washington, DC 20004  
Thank you,

*Nasim Jahan*

Environmental Engineer  
Permits and Technical Section (6WQ-PP)  
EPA Region 6 Water Quality Protection Division  
1445 Ross Avenue, Ste. 1200

Dallas, TX 75202-2733  
Phone: 214.665.7522  
Fax: 214.665.2191

1. Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, requires that benchmark values be modified to reflect New Mexico water quality standards for facilities in New Mexico, based on benchmark values from the Standards for Interstate and Intrastate Surface Waters (20.6.4.900 New Mexico Administrative Code [NMAC]). These modified benchmark values are not recognized by NeT-MSGP and populated in NetDMR.
2. The 2018-2020 State of New Mexico Clean Water Act §303(d)/ §305(b) Integrated Report requires monitoring of impaired waters pollutants not available for selection in NeT-MSGP (e.g., Adjusted Gross Alpha and Temperature).
3. 20.6.4.900 NMAC requires monitoring of certain modified benchmark and impaired waters metals pollutants as dissolved species, which are not available for selection in NeT-MSGP. Currently, only total metals species may be assigned in NeT-MSGP.
4. Due to extended frozen conditions during the winter and a semi-arid climate, Triad will implement an alternative monitoring period of four (4) two-month monitoring quarters for benchmark values as identified below, in accordance with Part 6.1.6 of the 2015 MSGP. This alternate monitoring schedule does not coincide with the default four (4) three-month quarters listed in Part 6.1.7 of the 2015 MSGP and NeT-MSGP does not allow input of an



alternate monitoring schedule. Accordingly, annual impaired waters and Effluent Limitation Guideline monitoring will be conducted between April 1 and November 30 of each year.

April 1 through May 31

June 1 through July 31

August 1 through September 30

October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Therefore, per your verbal direction, we are requesting a waiver for Triad to submit a paper NOI in lieu of submitting an inaccurate and incomplete NOI in NeT-MSGP. Please advise at your earliest convenience if you concur with our submittal of a paper NOI, as we must submit by Oct 2.

We appreciate your assistance in helping us maintain compliance. If you have any questions, please contact me at (505) 665-2397.

Terrill

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

## **ATTACHMENT 3**

Email correspondence from Emily Hack dated  
10/26/2018

EPC-DO: 21-039

LA-UR: 21-20731

Date: JAN 28 2021

**From:** [Emily Hack \(Avanti\) \(EPA NeT Support\)](#)  
**Cc:** [Jahan Nasim](#); [Wheeler, Holly Lynn](#); [Dale, Leslie J](#); [Hazen, Michael W](#)  
**Subject:** NMR050013 - Triad National Security LLC - MSGP Notice of Intent  
**Date:** Friday, October 26, 2018 11:13:07 AM  
**Attachments:** [NMR050013\\_Triad\\_Los Alamos National Laboratory\\_2015 MSGP NOI Acknowledgement.pdf](#)  
[Triad National Security LLC\\_Los Alamos National Laboratory\\_10-02-2018.pdf](#)

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Please type your reply above this line

You are CC'ed on this support request (10066). Reply to this email to add a comment to the request.

Emily Hack (Avanti) (EPA NeT Support)

Good afternoon,

The paper Notice of Intent (NOI) submitted under EPA's Multi-Sector General Permit (MSGP) for Los Alamos National Laboratory under Triad National Security LLC has been processed by the EPA NPDES eReporting Help Desk. The facility was assigned NPDES ID NMR050013. Please, retain the attached acknowledgement letter for your records.

Due to the unique nature of the outfall sequence and monitoring requirements, EPA instructed that we enter the NOI directly into the back-end system. Therefore, the NOI will not be generated in the NeT MSGP program at this time. Attached is the NOI that we received. As I'm sure you are aware, for any changes to the NOI in the future, please submit them via paper as well.

Please, let me know if you have any questions.

Sincerely,

Emily Hack  
NPDES eReporting Help Desk  
Staffed by Avanti Corporation  
1-877-227-8965  
[NPDESeReporting@epa.gov](mailto:NPDESeReporting@epa.gov)

This email is a service from EPA NeT Support. Delivered by [Zendesk](#)



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

PO Box 1663, K490  
Los Alamos, New Mexico 87545  
505-667-0666

Symbol: EPC-DO: 20-032  
LAUR: 20-20880  
Date: **JAN 29 2020**

Stormwater Notice Processing Center  
Mail Code 4203M, ATTN: 2015 MSGP Reports  
U.S. EPA  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking  
No. NMR050013, 2019 Multi-Sector General Permit (MSGP) Annual Report for  
Los Alamos National Laboratory (LANL)**

To Whom It May Concern:

Enclosed is the 2019 MSGP Annual Report (Attachment 1) submitted by Triad National Security, LLC (Triad) for Los Alamos National Laboratory as required by Part 7.5 of the MSGP.

EPA's Electronic Reporting Rule requires that the Annual Report be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to unique conditions related to LANL's monitoring requirements, LANL's NOI was not generated on NeT-MSGP, thus LANL is unable to submit the Annual Report electronically. Correspondence from Nasim Jahan (EPA Region 6) and Emily Hack (NPDES eReporting Help Desk) are included as Attachments 2 and 3, respectively.

Please contact Holly Wheeler at (505) 667-1312 or Terrill Lemke at (505) 665-2397 if you have questions.

Sincerely,

Terrill W. Lemke  
Storm Water Team Leader

TWL/HLW:jdm



Attachment(s): Attachment 1 National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013 Multi-Sector General Permit (MSGP) 2019 Annual Report  
Attachment 2 Email correspondence from Nasim Jahan dated 9/26/2018  
Attachment 3 Email correspondence from Emily Hack dated 10/26/2018

Copy: Nasim Jahan, USEPA, Region 6, [jahan.nasim@epa.gov](mailto:jahan.nasim@epa.gov)  
Sarah Holcomb, NMED/SWQB, [sarah.holcomb@state.nm.us](mailto:sarah.holcomb@state.nm.us)  
Karen E. Armijo, NA-LA, [Karen.armijo@nnsa.doe.gov](mailto:Karen.armijo@nnsa.doe.gov)  
Michael W. Hazen, ALDESHQSS, [mhazen@lanl.gov](mailto:mhazen@lanl.gov)  
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Terrill W. Lemke, EPC-CP, [tlemke@lanl.gov](mailto:tlemke@lanl.gov)  
Holly L. Wheeler, EPC-CP, [hbenson@lanl.gov](mailto:hbenson@lanl.gov)  
Tim Dolan, GC-ESH, [tdolan@lanl.gov](mailto:tdolan@lanl.gov)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov)

# **ATTACHMENT 1**

**National Pollutant Discharge Elimination System  
(NPDES) Permit Tracking No. NMR050013  
Multi-Sector General Permit (MSGP) 2019  
Annual Report**

**EPC-DO: 20-032**

**LA-UR-20-20880**

**Date:** **JAN 29 2020**

# National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013

## Multi-Sector General Permit (MSGP) 2019 Annual Report

### 1. A summary of routine inspection documentation from January 1, 2019 through December 31, 2019 required in Part 3.1.2.

Los Alamos National Laboratory (LANL), operated by Triad National Security, LLC (Triad), consists of 8 active industrial sites that operate under 6 different Sectors (A, D, N, O, P, and AA). Permit coverage became effective on November 1, 2018. All 8 active sites were inspected according the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPPs). The 37 sites that qualify for a conditional exclusion for no exposure were inspected between January 1, 2019 and December 31, 2019. A summary of inspections/evaluations and associated corrective actions are included in Table 1. An evaluation of analytical monitoring data and summary of results for the 2019 calendar year was conducted on 1/21/2020 and is included in Table 2.

**Table 1. Summary of Inspections and Associated Corrective Actions**

Facility	Status	Inspections Conducted Between 1/1/2019 and 12/31/2019	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)	Incidents of Noncompliance (New Mexico Water Quality Standard (NM WQS) Exceedances)	Incidents of Noncompliance (Average Exceeds or is Mathematically Certain to Exceed Benchmark Value Modified to Reflect a NM WQS per 2015 MSGP Part 9.6.2.1)	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value	Total Corrective Actions by Facility
TA-3-22 Power and Steam Plant	Active	12	1	13	10	—	5	—	3	32
TA-3-29 Indoor TSD	No Exposure	1	—	—	—	—	—	—	—	—
TA-3-29 Machine Shop	No Exposure	1	—	—	—	—	—	—	—	—
TA-3-30 Warehouse	No Exposure	1	2	—	—	—	—	—	—	2
TA-3-32 Metal Shop	No Exposure	1	—	—	—	—	—	—	—	—
TA-3-34 Metal Shop	No Exposure	1	—	—	—	—	—	—	—	—
TA-3-38 Carpenter Shop	Active	12	—	1	3	—	—	—	—	4
TA-3-38 Metals Fabrication Shop	Active	12	2	8	5	—	2	—	2	19
TA-3-39 and 102 Metal Shop	No Exposure	1	1	—	1	—	—	—	—	2
TA-3-40, Room 1315 Machine Shop	No Exposure	1	—	—	—	—	—	—	—	—
TA-3-66 Sigma Facility	No Exposure	1	3	—	2	—	—	—	—	5
TA-3-2206 Warehouse	No Exposure	1	—	—	1	—	—	—	—	1
TA-9-28 Heavy Equipment Maintenance	No Exposure	1	1	—	—	—	—	—	—	1
TA-14-23 Burn Cage	No Exposure	1	—	—	—	—	—	—	—	—
TA-15-185 Phermex	No Exposure	1	—	—	—	—	—	—	—	—
TA-15-313 Machine Shop	No Exposure	1	2	—	—	—	—	—	—	2
TA-22-52 Machine Shop	No Exposure	1	—	—	—	—	—	—	—	—
TA-33-39 Machine Shop	No Exposure	1	—	—	—	—	—	—	—	—

Facility	Status	Inspections Conducted Between 1/1/2019 and 12/31/2019	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)	Incidents of Noncompliance [New Mexico Water Quality Standard (NM WQS) Exceedances]	Incidents of Noncompliance (Average Exceeds or is Mathematically Certain to Exceed Benchmark Value Modified to Reflect a NM WQS per 2015 MSGP Part 9.6.2.1)	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value	Total Corrective Actions by Facility
TA-33-113 Machine Shop	No Exposure	1	—	—	—	—	—	—	—	—
TA-35-2 Machine Shop	No Exposure	1	—	—	—	—	—	—	—	—
TA-35-125 Machine Shop	No Exposure	1	—	—	1	—	—	—	—	1
TA-46-31 Machine Shop	No Exposure	1	1	—	1	—	—	—	—	2
TA-46-77 Machine Shop	No Exposure	1	—	—	1	—	—	—	—	1
TA-48-8 Machine Shop	No Exposure	1	—	—	—	—	—	—	—	—
TA-50-54 Machine Shop	No Exposure	1	—	—	—	—	—	—	—	—
TA-50-69 WCRRF	No Exposure	1	—	—	—	—	—	—	—	—
TA-53-2 Machine Shop	No Exposure	1	—	—	1	—	—	—	—	1
TA-53-16 Machine Shop	No Exposure	1	—	—	1	—	—	—	—	1
TA-53-26 Machine Shop	No Exposure	1	—	—	1	—	—	—	—	1
TA-54-38 Indoor TSD	No Exposure	1	—	—	—	—	—	—	—	—
TA-54 RANT	No Exposure	1	—	—	—	—	—	—	—	—
TA-55-3 Metal Shop	No Exposure	1	—	—	1	—	—	—	—	1
TA-55-PF-4 Indoor TSD	No Exposure	1	—	—	—	—	—	—	—	—
TA-55-5 Warehouse	No Exposure	1	1	—	—	—	—	—	—	1
TA-55-268 Warehouse	No Exposure	1	—	—	—	—	—	—	—	—
TA-55-314 Warehouse	No Exposure	1	—	—	—	—	—	—	—	—
TA-55-355 TSD	No Exposure	1	1	—	—	—	—	—	—	1
TA-55-432 Warehouse	No Exposure	1	—	—	—	—	—	—	—	—
TA-55 Outdoor TSD	No Exposure	1	—	—	—	—	—	—	—	—
TA-60 Asphalt Batch Plant	Active	12	4	1	3	2	—	—	—	10
TA-60 MRF	Active	12	2	—	9	—	1	—	—	12
TA-60 Roads and Grounds	Active	12	14	12	24	—	4	—	—	54
TA-60-1 Heavy Equipment Yard	Active	12	21	24	14	—	2	2	1	64
TA-60-2 Warehouse	Active	12	2	4	6	—	4	—	—	16
TA-63 Transuranic Waste Facility	No Exposure	1	—	—	—	—	—	—	—	—
Totals	45	133	58	63	85	2	18	2	6	234

TSD=Treatment, storage and disposal  
WCRRF=Waste Characterization, Reduction, and Repackaging Facility  
PF = Plutonium Facility  
MRF=Material Recycling Facility

Table 2. Summary of Monitoring Results



Permitted Facility	Outfall	Monitoring Type	Pollutant(s)	Monitoring Status	Reason
TA-3-22 Power & Steam Plant	005	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-22 Power & Steam Plant	005	Impaired Waters	Total Aroclor	Discontinued	Part 6.2.4.1. The pollutant of concern was not detected and not expected to be present in discharge.
TA-3-22 Power & Steam Plant	005	Quarterly Benchmark	Total Fe	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark.
TA-3-22 Power & Steam Plant	009	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-22 Power & Steam Plant	009	Impaired Waters	Total Aroclor	Discontinued	Part 6.2.4.1. The pollutant of concern was not detected and not expected to be present in discharge.
TA-3-22 Power & Steam Plant	009	Quarterly Benchmark	Total Fe	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark.
TA-3-22 Power & Steam Plant	012	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-22 Power & Steam Plant	012	Impaired Waters	Total recoverable Al, Total Aroclor	Continued	Insufficient volume collected to perform analysis.
TA-3-22 Power & Steam Plant	012	Quarterly Benchmark	Total Fe	Continued	Insufficient volume collected to perform analysis.
TA-3-38 Carpenter Shop	074	Impaired Waters	Total recoverable Al, Dissolved Cu	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-3-38 Carpenter Shop	074	Impaired Waters	Total Aroclor	Discontinued	Part 6.2.4.1. The pollutant of concern was not detected and not expected to be present in discharge.
TA-3-38 Carpenter Shop	073	Impaired Waters	COD, TSS	Discontinued	Per Part 6.2.1.2, the average of four quarterly monitoring values does not exceed the benchmark.
TA-3-38 Metals Fab Shop	002	Impaired Waters	Total recoverable Al, dissolved Cu, Total Aroclor	Discontinued	Due to physical site changes, outfall 002 was replaced by outfall 076 on May 1, 2019, therefore monitoring at outfall 002 is discontinued.
TA-3-38 Metals Fab Shop	002	Quarterly Benchmark	NO3+NO2-N, total recoverable Al, total Fe, dissolved Zn	Discontinued	Due to physical site changes, outfall 002 was replaced by outfall 076 on May 1, 2019, therefore monitoring at outfall 002 is discontinued.
TA-3-38 Metals Fab Shop	076	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-38 Metals Fab Shop	076	Impaired Waters	Dissolved Cu	Continued	Dissolved Copper was monitored at outfall 002 prior to being replaced by this outfall. The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-38 Metals Fab Shop	076	Impaired Waters	Total Aroclor	Discontinued	Part 6.2.4.1. The pollutant of concern was not detected and not expected to be present in discharge.
TA-3-38 Metals Fab Shop	076	Quarterly Benchmark	NO3+NO2-N	Continued	Fewer than four quarterly monitoring values have been collected, however the average does not exceed the benchmark.
TA-3-38 Metals Fab Shop	076	Quarterly Benchmark	Total recoverable Al, total Fe, dissolved Zn	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark. Per Part 9.6.2.1, the benchmarks for Al and Zn are modified to reflect the NM WQS.
TA-60 Asphalt Batch Plant	043	Effluent Limitations Guidelines	Oil and Grease	Continued	Monitoring is required annually. The pollutant was not detected.
TA-60 Asphalt Batch Plant	043	Effluent Limitations Guidelines	TSS, pH	Continued	Monitoring is required annually. The pollutant was detected at a concentration that exceeded the daily limit.
TA-60 Asphalt Batch Plant	043	Effluent Limitations Guidelines	TSS	Continued	Monitoring is required annually. The pollutant was detected at a concentration that exceeded the 30-day average limit.
TA-60 Asphalt Batch Plant	043	Impaired Waters	Dissolved Cu, Adjusted Gross Alpha	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-60 Asphalt Batch Plant	043	Impaired Waters	Total Aroclor, total Hg	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60 Asphalt Batch Plant	043	Quarterly Benchmark	TSS	Continued	Fewer than four quarterly monitoring values have been collected, however the average does not exceed the benchmark.
TA-60 MRF	029	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 MRF	029	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration below the Water Quality Standard.

Permitted Facility	Outfall	Monitoring Type	Pollutant(s)	Monitoring Status	Reason
TA-60 MRF	029	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60 Roads and Grounds	031	Impaired Waters	Dissolved Cu, Adjusted Gross Alpha	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-60 Roads and Grounds	031	Impaired Waters	Total Aroclor, total Hg	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60 Roads and Grounds	032	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 Roads and Grounds	032	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-60 Roads and Grounds	032	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60 Roads and Grounds	037	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 Roads and Grounds	037	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-60 Roads and Grounds	037	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60 Roads and Grounds	039	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 Roads and Grounds	039	Impaired Waters	Total Aroclor, total recoverable Al	Continued	Insufficient volume collected to perform analysis.
TA-60 Roads and Grounds	042	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 Roads and Grounds	042	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-60 Roads and Grounds	042	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60-1 Heavy Equipment Yard	022	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60-1 Heavy Equipment Yard	022	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60-1 Heavy Equipment Yard	022	Quarterly Benchmark	NO3+NO2-N, total recoverable Al, total Fe, dissolved Zn	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark. Per Part 9.6.2.1, the benchmarks for Al and Zn are modified to reflect the NM WQS.
TA-60-2 Warehouse	026	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60-2 Warehouse	026	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60-2 Warehouse	075	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60-2 Warehouse	075	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.

Al=Aluminum

Cu=Copper

COD=Chemical Oxygen Demand

Fe=Iron

NO3+NO2-N=Nitrate-Nitrite as Nitrogen

Hg=Mercury

TSS=Total Suspended Solids

Zn=Zinc

NM WQS= New Mexico Water Quality Standard

MRF=Material Recycling Facility

2. A summary of the past year's quarterly visual assessment documentation (see Part 3.2.2)

A total of 112 visual assessments were completed at 30 different outfalls. Evidence of an oil sheen was observed in two samples: Outfall 002 on 4/23/2019 and Outfall 074 on 05/10/2019. No other evidence of pollutants were observed.

3. For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, your rationale for why you believe no further reductions are achievable.

N/A

4. A summary of your past year's corrective action documentation (See Part 4.4). If corrective action is not yet completed at the time of submission of your annual report, you must describe the status of any outstanding corrective actions. 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 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, and (3) control measures that were inadequate to meet the non-numeric effluent limitations. There are no corrective actions not yet completed at the time of annual report submission.

Regarding incidents of noncompliance, 18 monitored constituents from different outfalls exceeded an individual New Mexico Water Quality Standard (NM WQS), 2 monitored quarterly benchmark constituent value exceedances occurred where the benchmark value was modified to reflect a NM WQS per Section 9.6.2.1, and 2 effluent limitation guideline constituent value exceedances occurred as shown in Table 2. Corrective actions to address these exceedances have been completed.

## **ATTACHMENT 2**

Email correspondence from Nasim Jahan  
dated 9/26/2018

EPC-DO: 20-032

LA-UR-20-20880

Date: JAN 29 2020



**From:** [Lemke, Terrill W](#)  
**To:** [Dolan, Timothy Aloysius](#); [Dale, Leslie J](#); [Wheeler, Holly Lynn](#)  
**Subject:** FW: Request for LANL Paper MSGP NOI Waiver  
**Date:** Wednesday, September 26, 2018 4:15:53 PM

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FYI

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

**From:** Jahan, Nasim <Jahan.Nasim@epa.gov>  
**Sent:** Wednesday, September 26, 2018 2:43 PM  
**To:** Lemke, Terrill W <tlemke@lanl.gov>  
**Cc:** Emily Gorman <emily@avanticorporation.com>  
**Subject:** RE: Request for LANL Paper MSGP NOI Waiver

Dear Mr. Terrill:

EPA, Region 6 is approving your request for paper submission as the facility is unable to submit the NOI online.. Please mail the hardcopies to the following address:

**For Regular U.S. Mail Delivery:**

Stormwater Notice Processing Center  
Mail Code 4203M, ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

**For Overnight/Express U.S. Mail Delivery:**

Stormwater Notice Processing Center  
William Jefferson Clinton East Building – Room 7420  
ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1201 Constitution Avenue, NW  
Washington, DC 20004  
Thank you,

*Nasim Jahan*

Environmental Engineer  
Permits and Technical Section (6WQ-PP)  
EPA Region 6 Water Quality Protection Division  
1445 Ross Avenue, Ste. 1200

Dallas, TX 75202-2733  
Phone: 214.665.7522  
Fax: 214.665.2191

1. Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, requires that benchmark values be modified to reflect New Mexico water quality standards for facilities in New Mexico, based on benchmark values from the Standards for Interstate and Intrastate Surface Waters (20.6.4.900 New Mexico Administrative Code [NMAC]). These modified benchmark values are not recognized by NeT-MSGP and populated in NetDMR.
2. The 2018-2020 State of New Mexico Clean Water Act §303(d)/ §305(b) Integrated Report requires monitoring of impaired waters pollutants not available for selection in NeT-MSGP (e.g., Adjusted Gross Alpha and Temperature).
3. 20.6.4.900 NMAC requires monitoring of certain modified benchmark and impaired waters metals pollutants as dissolved species, which are not available for selection in NeT-MSGP. Currently, only total metals species may be assigned in NeT-MSGP.
4. Due to extended frozen conditions during the winter and a semi-arid climate, Triad will implement an alternative monitoring period of four (4) two-month monitoring quarters for benchmark values as identified below, in accordance with Part 6.1.6 of the 2015 MSGP. This alternate monitoring schedule does not coincide with the default four (4) three-month quarters listed in Part 6.1.7 of the 2015 MSGP and NeT-MSGP does not allow input of an

alternate monitoring schedule. Accordingly, annual impaired waters and Effluent Limitation Guideline monitoring will be conducted between April 1 and November 30 of each year.

April 1 through May 31  
June 1 through July 31  
August 1 through September 30  
October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Therefore, per your verbal direction, we are requesting a waiver for Triad to submit a paper NOI in lieu of submitting an inaccurate and incomplete NOI in NeT-MSGP. Please advise at your earliest convenience if you concur with our submittal of a paper NOI, as we must submit by Oct 2.

We appreciate your assistance in helping us maintain compliance. If you have any questions, please contact me at (505) 665-2397.

Terrill

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

## **ATTACHMENT 3**

Email correspondence from Emily Hack  
dated 10/26/2018

EPC-DO: 20-032

LA-UR-20-20880

Date: JAN 29 2020



**From:** [Emily Hack \(Avanti\) \(EPA NeT Support\)](#)  
**Cc:** [Jahan Nasim](#); [Wheeler, Holly Lynn](#); [Dale, Leslie J](#); [Hazen, Michael W](#)  
**Subject:** NMR050013 - Triad National Security LLC - MSGP Notice of Intent  
**Date:** Friday, October 26, 2018 11:13:07 AM  
**Attachments:** [NMR050013\\_Triad\\_Los Alamos National Laboratory\\_2015 MSGP NOI Acknowledgement.pdf](#)  
[Triad National Security LLC\\_Los Alamos National Laboratory\\_10-02-2018.pdf](#)

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##- Please type your reply above this line -##

You are CC'ed on this support request (10066). Reply to this email to add a comment to the request.

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**Emily Hack (Avanti) (EPA NeT Support)**

Oct 26, 13:12 EDT

Good afternoon,

The paper Notice of Intent (NOI) submitted under EPA's Multi-Sector General Permit (MSGP) for Los Alamos National Laboratory under Triad National Security LLC has been processed by the EPA NPDES eReporting Help Desk. The facility was assigned NPDES ID NMR050013. Please, retain the attached acknowledgement letter for your records.

Due to the unique nature of the outfall sequence and monitoring requirements, EPA instructed that we enter the NOI directly into the back-end system. Therefore, the NOI will not be generated in the NeT MSGP program at this time. Attached is the NOI that we received. As I'm sure you are aware, for any changes to the NOI in the future, please submit them via paper as well.

Please, let me know if you have any questions.

Sincerely,

Emily Hack  
NPDES eReporting Help Desk  
Staffed by Avanti Corporation  
1-877-227-8965  
[NPDESeReporting@epa.gov](mailto:NPDESeReporting@epa.gov)

This email is a service from EPA NeT Support. Delivered by [Zendesk](#)



***Environmental Protection & Compliance  
Division***

Los Alamos National Laboratory  
PO Box 1663, K490  
Los Alamos, NM 87545  
505-667-0666

*Symbol:* EPC-DO: 19-029  
*LAUR:* 19-20724  
*Date:* **JAN 30 2019**

Stormwater Notice Processing Center  
Mail Code 4203M, ATTN: 2015 MSGP Reports  
U.S. EPA  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, 2018 Multi-Sector General Permit (MSGP) Annual Report for Los Alamos National Laboratory (LANL)**

To Whom It May Concern:

Enclosed is the 2018 MSGP Annual Report (Attachment 1) for LANL as required by Part 7.5 of the MSGP.

EPA's Electronic Reporting Rule requires that the Annual Report be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to unique conditions related to LANL's monitoring requirements, LANL's NOI was not generated on NeT-MSGP, thus LANL is unable to submit the Annual Report electronically. Correspondence from Nasim Jahan (EPA Region 6) and Emily Hack (NPDES eReporting Help Desk) are included as Attachments 2 and 3, respectively.

Please contact Holly Wheeler at (505) 667-1312 or Terrill Lemke at (505) 665-2397 if you have questions.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Terrill W. Lemke'.

Terrill W. Lemke  
Storm Water Team Leader

TWL/HLW:jdm

Attachment(s): Attachment 1 Annual Report for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit  
Attachment 2 Email correspondence from Nasim Jahan dated 9/26/2018  
Attachment 3 Email correspondence from Emily Hack dated 10/26/2018

Copy: Nasim Jahan, USEPA, Region 6, [jahan.nasim@epa.gov](mailto:jahan.nasim@epa.gov), (E-File)  
Sarah Holcomb, NMED, [sarah.holcomb@state.nm.us](mailto:sarah.holcomb@state.nm.us), (E-File)  
Karen E. Armijo, LASO-MA-LS, [Karen.armijo@nnsa.doe.gov](mailto:Karen.armijo@nnsa.doe.gov), (E-File)  
Michael W. Hazen, ESHQSS, [mhazen@lanl.gov](mailto:mhazen@lanl.gov), (E-File)  
William R. Mairson, ESHQSS, [wrmairson@lanl.gov](mailto:wrmairson@lanl.gov), (E-File)  
Enrique Torres, EPC-DO, [etorres@lanl.gov](mailto:etorres@lanl.gov), (E-File)  
Taunia Van Valkenburg, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov), (E-File)  
Terrill W. Lemke, EPC-CP, [tlemke@lanl.gov](mailto:tlemke@lanl.gov), (E-File)  
Holly L. Wheeler, EPC-CP, [hbenson@lanl.gov](mailto:hbenson@lanl.gov), (E-File)  
Tim Dolan, GC-ESH, [tdolan@lanl.gov](mailto:tdolan@lanl.gov), (E-File)  
[emla.docs@em.doe.gov](mailto:emla.docs@em.doe.gov), (E-File)  
[locatestream@lanl.gov](mailto:locatestream@lanl.gov), (E-File)  
[epc-correspondence@lanl.gov](mailto:epc-correspondence@lanl.gov), (E-File)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov), (E-File)

# **ATTACHMENT 1**

## **Annual Report for Stormwater Discharges Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

**EPC-DO: 19-029**

**LA-UR: 19-20724**

**Date:** **JAN 30 2019**



<b>NPDES FORM 6100-28</b>		<b>UNITED STATES ENVIRONMENTAL PROTECTION AGENCY</b> <b>WASHINGTON, DC 20460</b> <b>ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH</b> <b>INDUSTRIAL ACTIVITY UNDER THE NPDES THE NPDES MULTI-SECTOR GENERAL PERMIT</b>	Form Approved. OMB No. 2040-0004
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**A. Approval to Use Paper Annual Report Form**

1. Have you been granted a waiver from electronic reporting from the EPA Regional Office? ☒ YES ☐ NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

Waiver granted: ☐ The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.

☒ The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver: N a s i m J a h a n

Date approval obtained: 0 9 / 2 6 / 2 0 1 8

\* Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper annual report form. If you have not obtained a waiver, you must file this form electronically using the NPDES eReporting Tool (NeT) at <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm>

**B. Permit Information**

1. NPDES ID: N M R 0 5 0 0 1 3

**C. Facility Information**

1. Facility Name: L o s A l a m o s N a t i o n a l L a b o r a t o r y

2. Facility Phone: 5 0 5 - 6 6 5 - 2 3 9 7 Ext.  

3. Facility Mailing Address:

Street: P O B o x 1 6 6 3 K 4 9 0

City: L o s A l a m o s State: N M ZIP Code: 8 7 5 4 5 -

County or Similar Government Subdivision: L o s A l a m o s

4. Point of Contact:

First Name, Middle Initial, Last Name: T e r r i l l W L e m k e

**D. General Findings**

1. Provide a summary of your past year's routine facility inspection documentation (see Part 3.1.2 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.8.1 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 2015." (Note: Operators of airport facilities that are complying with Part 8.S.8.1 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 7 different Sectors (A, D, F, N, O, P, and AA), 37 sites that qualify for a conditional exclusion for no exposure, and one inactive site. Permit coverage became effective on November 1, 2018. All 8 active sites were inspected according to the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPPs). The 37 no exposure sites and one inactive site were inspected between November 1, 2018 and January 9, 2019. A summary of inspections/evaluations and associated corrective actions are included in Table 1 (attached).

2. Provide a summary of your past year's quarterly visual assessment documentation (see Part 3.2.2 of the permit).

Monitoring requirements under Permit Tracking ID NMR050013 commence on April 1, 2019. No visual assessments were conducted between November 1, 2018 and December 31, 2018.

3. For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, provide your rationale for why you believe no further reductions are achievable (see Part 6.2.1.2 of the permit). Enter "NA" if not applicable.

Not applicable (see response to #2).

4. Provide a summary of your past year's corrective action documentation (See Part 4.4 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).) 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 for a summary of identified corrective actions, which specifies the frequency of each of the following by site: (1) unauthorized release or discharge, (2) control measures needing maintenance, repair or replacement, and (3) control measures that were inadequate to meet the non-numeric effluent limitations. Table 2 (attached) provides a summary of outstanding corrective actions.

## E. 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: T e r r i l l W L e m k e

Title: S t o r m W a t e r T e a m L e a d e r

Signature: \_\_\_\_\_ Date: / /

E-mail: t l e m k e @ l a n l . g o v

**Table 1. Summary of Inspections and Associated Corrective Actions**

Facility	Status	Inspections Conducted Between 11/1/2018 and 1/9/2019	Unauthorized Release or Discharge	Control Measures Needing Maintenance, Repair, or Replacement	Control Measures Inadequate to Meet Non-Numeric Effluent Limitations
TA-3-22 Power and Steam Plant	Active	2	1	3	2
TA-3-29 Indoor TSD	No Exposure	1	—	—	—
TA-3-29 Machine Shop	No Exposure	1	—	—	—
TA-3-30 Warehouse	No Exposure	1	1	—	2
TA-3-32 Metal Shop	No Exposure	1	—	—	1
TA-3-34-Metal Shop	No Exposure	1	—	—	—
TA-3-38 Carpenter Shop	Active	2	—	—	—
TA-3-38 Metals Fabrication Shop	Active	2	—	—	2
TA-3-39 and 102 Metal Shop	No Exposure	1	1	—	2
TA-3-40, Room 131S Machine Shop	No Exposure	1	—	—	1
TA-3-66 Sigma Facility	No Exposure	1	1	—	—
TA-3-2206 Warehouse	No Exposure	1	—	—	—
TA-9-28 Heavy Equipment Maintenance	No Exposure	1	—	—	1
TA-14-23 Burn Cage	No Exposure	1	—	—	—
TA-15-185 Phermex	Inactive	1	—	—	—
TA-15-313 Machine Shop	No Exposure	1	—	—	—
TA-22-52 Machine Shop	No Exposure	1	—	—	1
TA-33-39 Machine Shop	No Exposure	1	—	—	1
TA-33-113 Machine Shop	No Exposure	1	—	—	1
TA-35-2 Machine Shop	No Exposure	1	—	—	—
TA-35-125 Machine Shop	No Exposure	1	—	—	—
TA-35-213 Machine Shop	No Exposure	1	—	—	—
TA-46-31 Machine Shop	No Exposure	1	—	—	1
TA-46-77	No Exposure	1	—	—	—
TA-48-8 Machine Shop	No Exposure	1	—	—	—
TA-50-54 Machine Shop	No Exposure	1	—	—	—
TA-50-69 WCRRF	No Exposure	1	—	—	—
TA-53-2 Machine Shop	No Exposure	1	—	—	—
TA-53-16/0726 Machine Shop	No Exposure	1	—	—	2
TA-53-26 Machine Shop	No Exposure	1	—	—	2
TA-54-38 Indoor TSD	No Exposure	1	—	—	—
TA-54-38 Outdoor TSD	No Exposure	1	—	—	—
TA-55-3 Metal Shop	No Exposure	1	—	—	—
TA-55-PF-4 Indoor TSD	No Exposure	1	—	—	—
TA-55-5 Warehouse	No Exposure	1	—	—	—
TA-55-268 Warehouse	No Exposure	1	—	—	—
TA-55-314 Warehouse	No Exposure	1	—	—	—



Facility	Status	Inspections Conducted Between 11/1/2018 and 1/9/2019	Unauthorized Release or Discharge	Control Measures Needing Maintenance, Repair, or Replacement	Control Measures Inadequate to Meet Non-Numeric Effluent Limitations
TA-55-355	No Exposure	1	—	—	—
TA-55-432	No Exposure	1	—	—	—
TA-55 Outdoor TSD	No Exposure	1	—	—	—
TA-60 Asphalt Batch Plant	Active	2	1	—	1
TA-60 MRF	Active	2	—	—	3
TA-60 Roads and Grounds	Active	2	3	1	3
TA-60-1 Heavy Equipment Yard	Active	2	—	—	10
TA-60-2 Warehouse	Active	2	1	1	1
TA-63 Transuranic Waste Facility	No Exposure	1	—	—	—
Totals	46	54	9	5	37

TSD=Treatment, storage and disposal

WCRRF=Waste Characterization, Reduction, and Repackaging Facility

PF = Plutonium Facility

MRF=Material Recycling Facility

**Table 2. Summary of Outstanding Corrective Actions**

Facility Description	Inspection Date	Inspection Type Description	Finding Description	Problem Description	Corrective Action Description	Completed	Date Corrective Action was Initiated	Expected Completion Date	Corrective Action Completion Date	Description of Noncompliance
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non-numeric effluent limitations	Within the lower east yard at the TA-60-1 Heavy Equipment Yard, leftover ducting and straps were abandoned outside with no controls in place. Housekeeping issue.	Site representative contacted the Electrical Foreman, whom was believed to be responsible for the material on 12/20/2018. However, during a walk down on that date, it was confirmed that he was not responsible for the material. LANL was closed from 12/22/2018 through 1/03/2019. On 1/10/2019, the site representative contacted a member of the sheet metal workers to pick up the material. It was confirmed on 1/28/2019 that the material is under several feet of snow. Sheet metal workers agree to remove the material once it is accessible.	No	12/20/2018	02/28/2019	N/A	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non-numeric effluent limitations	East of the TA-60-1, in the southern part of the upper yard, several broken solar panels are being stored outside.	Salvage was contacted on 12/19/2018 and 1/15/2019 to determine if they could pick up the panels, but they did not respond. On 1/28/2019, the site representative contacted the Material Recycling Facility (MRF) to determine whether the solar panels could be sent to them. On 1/29/2018 the solar panels were taken to the MRF.	Yes	12/19/2018	N/A	1/29/2019	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non-numeric	There are several pieces of metal for fabrication and old pieces of equipment that are rusting and not covered.	LANL was closed from 12/22/2018 through 1/03/2019. Starting on 12/26/2018, several snow events occurred. A walk	No	Not documented.	1/31/2019	N/A	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.

Facility Description	Inspection Date	Inspection Type Description	Finding Description	Problem Description	Corrective Action Description	Completed	Date Corrective Action was Initiated	Expected Completion Date	Corrective Action Completion Date	Description of Noncompliance
			effluent limitations	Specific equipment and locations are as follows: Tail gate and apron in the lower east yard; a rusted metal beam at the same general location; and metal mesh, diamond steel and steel sheets in the central portion of the lower east yard.	down on 1/28/2019 determined the snow melted enough to be place tarps on the identified equipment and metal by 1/31/2019.					
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non-numeric effluent limitations	On the east side of the TA-60-1, Heavy Equipment Yard, tires are being stockpiled outside with no stormwater controls in place.	Tires were transported to MRF where they will be covered, then transported to the Los Alamos County Landfill.	Yes	Not documented.	N/A	1/29/2019	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non-numeric effluent limitations	At the far northwest corner of the TA-60-1 Heavy Equipment Yard, stormwater is sheet flowing off the asphalt private vehicle parking area and causing erosion to the soil between there and Maniac Road.	Site representative walked down the eroded area with personnel from Roads and Grounds (R&G) on 12/20/2018. R&G will regrade the area and stabilize it with asphalt millings until the area is paved later in the year. LANL was closed from 12/22/2018 through 1/03/2019. Starting on 12/26/2018, several snow events occurred. On 1/11/2019, the Excavation Permit review was completed. The R&G crew is waiting for line locates in the area before they can regrade and stabilize. Work is proposed to be completed by 2/28/2019.	No	12/20/2018	2/28/2019	N/A	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non-numeric	At several locations within the TA-60-1 Heavy Equipment Yard, either metal storage racks are not covered, the existing covers need to be	LANL was closed from 12/22/2018 through 1/03/2019. Starting on 12/26/2018, several snow events occurred. Tarps will be replaced, resituated or	No	Not documented.	1/31/2019	N/A	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.

Facility Description	Inspection Date	Inspection Type Description	Finding Description	Problem Description	Corrective Action Description	Completed	Date Corrective Action was Initiated	Expected Completion Date	Corrective Action Completion Date	Description of Noncompliance
			effluent limitations	replaced, or metal is stored near a rack on the ground and needs to be covered. Specific locations include: north of structure TA-60-330; blade storage area on the north side of the lower east yard; far east end of lower east yard; between trailers TA-60-008 and 009; and the west side of TA-60-1 (center area).	installed to cover materials by 1/31/2019.					
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non-numeric effluent limitations	Steel, for fabrication of ladder racks, was stored outside west of TA-60-1 without being covered.	Part of the steel was covered or removed on 12/21/2018.	Yes	Not documented.	N/A	12/21/2018	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non-numeric effluent limitations	Three roll-off bins were not covered. Two were located in the lower yard and one was in the paved area east of TA-60-1.	The roll-off bin containing metal for recycle was sent to MRF on 12/20/2018. A rental truck was being used at MRF because their regular truck was being repaired. The rental truck was unable to move the wood bin due to its weight. The recycle bin containing wood was taken to MRF on 1/29/2019. Roll-off bins containing tires were sent to MRF on 12/20/2018 and 1/29/2019. The new bin for tires was covered with a tarp on 1/29/2019.	Yes	Not documented.	N/A	1/29/2019	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60 Roads and Grounds	12/17/2018	Routine facility inspection	Control measure inadequate to meet non-numeric effluent limitations	A Hamm roller appears to be abandoned within the Sigma Mesa Staging Area at TA-60 Roads and Grounds east. Liquids have not been drained from the equipment.	On 12/12/2018 a drip pan with spill pads and pillows was placed underneath the Hamm roller to help capture any drips from the small leak. By 1/7/2019, approximately 20 or more inches of leftover snow	Yes	12/17/2018	N/A	1/26/2019	Inadequate documentation of requirements in Part 4.3.2.



Facility Description	Inspection Date	Inspection Type Description	Finding Description	Problem Description	Corrective Action Description	Completed	Date Corrective Action was Initiated	Expected Completion Date	Corrective Action Completion Date	Description of Noncompliance
					from multiple storms that dropped 3 feet of snow by 1/1/2019, impeded access to Hamm roller. On 1/18/2019, during the routine facility inspection, there was no new signs of leakage inside the drip pan underneath the Hamm roller. On 1/26/2019, the motor oil and hydraulic fluids were removed from the Hamm roller.					
TA-60 Asphalt Batch Plant	12/17/2018	Routine facility inspection	Unauthorized release or discharge	At the TA-60 Asphalt Batch Plant, the pump to the heating oil tank is leaking oil.	On 12/11/2017 Roads and Grounds contacted TP Pump out of Albuquerque for a quote on a replacement pump. On 12/17/2018 a new pump was ordered from Honstein Oil & Distribution out of Santa Fe with a 20 day business lead time. On 12/18/2018, the Asphalt Batch Plant was shut down which turns the pump off and stops it from leaking. On 12/20/2018, the soil south of the tank and within the secondary containment basin was cleaned up and the affected area was sprayed with Micro-Blaze. During the routine facility inspection on 1/16/2019, it was determined that power to the Asphalt Batch Plant had not been restored and the pump to the heating oil was not leaking. The new replacement pump is now scheduled to arrive on 2/25/2019. The expected completion date for this corrective action is close of business on 2/28/2019.	No	12/17/2018	2/28/2019	N/A	Inadequate documentation of requirements in Part 4.3.2.

Facility Description	Inspection Date	Inspection Type Description	Finding Description	Problem Description	Corrective Action Description	Completed	Date Corrective Action was Initiated	Expected Completion Date	Corrective Action Completion Date	Description of Noncompliance

## **ATTACHMENT 2**

Email correspondence from Nasim Jahan dated 9/26/2018

EPC-DO: 19-029

LA-UR: 19-20724

Date: JAN 30 2019

**From:** [Lemke, Terrill W](#)  
**To:** [Dolan, Timothy Aloysius](#); [Dale, Leslie J](#); [Wheeler, Holly Lynn](#)  
**Subject:** FW: Request for LANL Paper MSGP NOI Waiver  
**Date:** Wednesday, September 26, 2018 4:15:53 PM

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FYI

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

**From:** Jahan, Nasim <Jahan.Nasim@epa.gov>  
**Sent:** Wednesday, September 26, 2018 2:43 PM  
**To:** Lemke, Terrill W <tlemke@lanl.gov>  
**Cc:** Emily Gorman <emily@avanticorporation.com>  
**Subject:** RE: Request for LANL Paper MSGP NOI Waiver

Dear Mr. Terrill:

EPA, Region 6 is approving your request for paper submission as the facility is unable to submit the NOI online.. Please mail the hardcopies to the following address:

**For Regular U.S. Mail Delivery:**

Stormwater Notice Processing Center  
Mail Code 4203M, ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

**For Overnight/Express U.S. Mail Delivery:**

Stormwater Notice Processing Center  
William Jefferson Clinton East Building – Room 7420  
ATTN: 2015 MSGP Signature Agreement  
U.S. EPA  
1201 Constitution Avenue, NW  
Washington, DC 20004  
Thank you,

*Nasim Jahan*

Environmental Engineer  
Permits and Technical Section (6WQ-PP)  
EPA Region 6 Water Quality Protection Division  
1445 Ross Avenue, Ste. 1200



Dallas, TX 75202-2733  
Phone: 214.665.7522  
Fax: 214.665.2191

1. Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, requires that benchmark values be modified to reflect New Mexico water quality standards for facilities in New Mexico, based on benchmark values from the Standards for Interstate and Intrastate Surface Waters (20.6.4.900 New Mexico Administrative Code [NMAC]). These modified benchmark values are not recognized by NeT-MSGP and populated in NetDMR.
2. The 2018-2020 State of New Mexico Clean Water Act §303(d)/ §305(b) Integrated Report requires monitoring of impaired waters pollutants not available for selection in NeT-MSGP (e.g., Adjusted Gross Alpha and Temperature).
3. 20.6.4.900 NMAC requires monitoring of certain modified benchmark and impaired waters metals pollutants as dissolved species, which are not available for selection in NeT-MSGP. Currently, only total metals species may be assigned in NeT-MSGP.
4. Due to extended frozen conditions during the winter and a semi-arid climate, Triad will implement an alternative monitoring period of four (4) two-month monitoring quarters for benchmark values as identified below, in accordance with Part 6.1.6 of the 2015 MSGP. This alternate monitoring schedule does not coincide with the default four (4) three-month quarters listed in Part 6.1.7 of the 2015 MSGP and NeT-MSGP does not allow input of an

alternate monitoring schedule. Accordingly, annual impaired waters and Effluent Limitation Guideline monitoring will be conducted between April 1 and November 30 of each year.

April 1 through May 31

June 1 through July 31

August 1 through September 30

October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Therefore, per your verbal direction, we are requesting a waiver for Triad to submit a paper NOI in lieu of submitting an inaccurate and incomplete NOI in NeT-MSGP. Please advise at your earliest convenience if you concur with our submittal of a paper NOI, as we must submit by Oct 2.

We appreciate your assistance in helping us maintain compliance. If you have any questions, please contact me at (505) 665-2397.

Terrill

Terrill Lemke, PE, CPESC, CISEC  
Environmental Compliance Programs  
Los Alamos National Laboratory  
Los Alamos, NM  
Office: 505-665-2397  
Cell: 505-699-0725

## **ATTACHMENT 3**

Email correspondence from Emily Hack dated 10/26/2018

EPC-DO: 19-029

LA-UR: 19-20724

Date: JAN 30 2019

**From:** [Emily Hack \(Avanti\) \(EPA NeT Support\)](#)  
**Cc:** [Jahan Nasim](#); [Wheeler, Holly Lynn](#); [Dale, Leslie J](#); [Hazen, Michael W](#)  
**Subject:** NMR050013 - Triad National Security LLC - MSGP Notice of Intent  
**Date:** Friday, October 26, 2018 11:13:07 AM  
**Attachments:** [NMR050013\\_Triad\\_Los Alamos National Laboratory\\_2015 MSGP NOI Acknowledgement.pdf](#)  
[Triad National Security LLC\\_Los Alamos National Laboratory\\_10-02-2018.pdf](#)

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\*\*\* Please type your reply above this line \*\*\*

You are CC'ed on this support request (10066). Reply to this email to add a comment to the request.

Emily Hack (Avanti) (EPA NeT Support)

Good afternoon,

The paper Notice of Intent (NOI) submitted under EPA's Multi-Sector General Permit (MSGP) for Los Alamos National Laboratory under Triad National Security LLC has been processed by the EPA NPDES eReporting Help Desk. The facility was assigned NPDES ID NMR050013. Please, retain the attached acknowledgement letter for your records.

Due to the unique nature of the outfall sequence and monitoring requirements, EPA instructed that we enter the NOI directly into the back-end system. Therefore, the NOI will not be generated in the NeT MSGP program at this time. Attached is the NOI that we received. As I'm sure you are aware, for any changes to the NOI in the future, please submit them via paper as well.

Please, let me know if you have any questions.

Sincerely,

Emily Hack  
NPDES eReporting Help Desk  
Staffed by Avanti Corporation  
1-877-227-8965  
[NPDESeReporting@epa.gov](mailto:NPDESeReporting@epa.gov)

This email is a service from EPA NeT Support. Delivered by [Zendesk](#)



## **ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS**

# Los Alamos National Laboratory

Work Order MSGP-RI-64134

MSGP Routine Inspection  
Printed 1/7/2020 - 4:13 PM

## Maintenance Details

**Requested:** 1/7/2020 3:41:48 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 11/25/2019  
**Project:** Routine Facility Inspections January 2020 (P-MSGP-RI-5425)

**Target:** 1/31/2020  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

 MSGP Program  
 RG121.9  
 TA-60-2 Warehouse

**Contact:**  
**Phone:**

**Reason:** 2020 January Inspections

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <i>36°F Clear</i>	<i>11am</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200016]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200017]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200018]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

420	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
470	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
500	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. <i>WOOD BIN FULL &amp; UNCOVERED</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
520	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

operating)? If "No" describe.

560 Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. ☐ ☐ ☒

570 Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. ☐ ☐ ☒

580 **Sector P [60005-]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. ☐ ☐ ☒

**Non-Compliance**

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

**Additional Control Measures**

620 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
Shendo, Marwin	1/7/2020 / 1				

## Labor Report

Completed: \_\_\_\_\_

### Report:

CA: Wood Box in the east lot was full & uncovered. CAP # 1696 YSS  
2/10/2020

Signature / Name: mf Date: 1/23/2020 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: Russell Stone Gx DESH-UTS

Signature: Russell Stone Date: 2/10/2020



## Maintenance Details

Requested: 2/10/2020 10:21:03 AM

Target: 2/29/2020

MSGP Program

Procedure: MSGP Routine Facility  
Inspection (EPC-CP-Form-  
1020.2)

Priority/Type: Normal / Inspection

RG121.9

Department: Utilities and Infrastructure

TA-60-2 Warehouse

Last PM: 12/11/2019

Project: Routine Facility Inspections  
February 2020 (P-MSGP-RI-  
5426)Contact:  
Phone:

Reason: 2020 February Inspections

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <i>9am Clear 39°F</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>					
260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition &		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	need for Maintenance, Repair, or Replacement.			
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200016]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200017]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200018]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).</b>				
420	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
470	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
500	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
560	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. CA1910	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
570	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
580	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Non-Compliance</b>				
600	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Additional Control Measures</b>				
620	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Labor**

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Shendo, Marwin	2/10/2020 / 1				
Wheeler, Holly	2/10/2020 / 1				

**Labor Report**

Completed: \_\_\_\_\_

Report: \_\_\_\_\_

CA1 - Trash around the yard along the fence and within the yard.

M/SLL

Signature / Name

2/27/2020

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: William Reed DESH-VIS Group leader (acting)

Signature: William W Reed Date: 3/17/2020



# Los Alamos National Laboratory

Work Order MSGP-RI-64155

MSGP Routine Inspection  
Printed 4/14/2020 - 5:56 PM (Duplicate Copy)

## Maintenance Details

**Requested:** 2/28/2020 12:04:00 PM

**Target:** 3/31/2020


 MSGP Program

**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)

**Priority/Type:** Normal / Inspection

 RG121.9

**Department:** Utilities and Infrastructure

 TA-60-2 Warehouse

**Last PM:** 2/27/2020

**Project:** Routine Facility Inspections  
March 2020 (P-MSGP-RI-5427)

**Contact:**  
**Phone:**

**Reason:** 2020 March Inspections

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <b>Comments: Cloudy and 54 degrees F.</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



discharges? If "No" describe.

**Control Measures** (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200016]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200017]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200018]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater** (identify needed maintenance or a description of corrective actions in relevant task comment).

Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				
<b>Comments: Metal storage rack in the center of the yard was storing copper piping and was not covered. See CAR number 1725. Raw material steel beam and slab for fabrication (ordered by sheet metal workers) was stored in the center portion of the yard and not covered. See CAR number 1726.</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
420				
430	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
460	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
470	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
500	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				
<b>Comments: A large blue "Ace Metals" roll-off bin and small blue bin, both containing scrap metal for recycle were not covered. See CAR number 1724. In addition, the recycle dumpster was not closed. See CAR number 1727.</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
510				

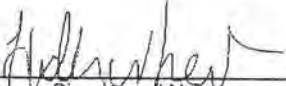


520	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
550	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
560	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
570	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
580	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Non-Compliance</b>				
600	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Additional Control Measures</b>				
620	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Labor Report

Completed: 3/25/2020 3:20:00 PM

Report: 4/11/2020 - 118432: Holly Wheeler

	<u>4/11/2020</u>		
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: William Reed DESH-US Group Leader (Acting)

Signature:  Date: 4/23/2020



## Maintenance Details

**Requested:** 4/10/2020 5:22:00 PM**Target:** 4/30/2020 MSGP Program**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)**Priority/Type:** Normal / Inspection RG121.9**Department:** Utilities and Infrastructure TA-60-2 Warehouse**Last PM:** 4/15/2020**Project:** Routine Facility Inspections  
April 2020 (P-MSGP-RI-5429)**Contact:****Phone:****Reason:** 2020 April Inspections

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <b>Comments: Mostly sunny, 68 degrees Fahrenheit.</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



discharges? If "No" describe.

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200016]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200017]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200018]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	<b>EnviroSoxx w/ MetalLoxx [6000503200020]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

430	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
500	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
510	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



550	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
560	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
570	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.			
	<b>Comments: See CA# 1768: There was some bulk household salt material stored that was being removed and it spilled out on the ground near a storm drain at the NE corner of the facility. It was swept and cleaned up the same day.</b>			
580	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
590		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### Non-Compliance

610	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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#### Additional Control Measures

630	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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#### Labor Report

**Completed:** 4/27/2020 2:30:00 PM

**Report:** Jacob Knight

*Jacob Knight*

5/1/2020

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: William Reed, DESH-UT Group Leader (acting)

Signature: William H Reed Date: 5/27/2020



## Maintenance Details

Requested: 5/12/2020 5:12:00 PM

Target: 5/31/2020

MSGP Program

Procedure: MSGP Routine Facility  
Inspection (EPC-CP-Form-  
1020.2)

Priority/Type: Normal / Inspection

RG121.9

Department: Utilities and Infrastructure

TA-60-2 Warehouse

Last PM: 4/27/2020

Project: Routine Facility Inspections  
May 2020 (P-MSGP-RI-  
5440)

Contact:

Phone:

Reason: 2020 May Inspections

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <b>Comments: 73 degrees F. Partly cloudy. 20% chance of showers.</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



discharges? If "No" describe.

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200016]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200017]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200018]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	<b>EnviroSoxx w/ MetalLoxx [6000503200020]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

430	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
500	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
510	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



550	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
560	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
570	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
580	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
590	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### Non-Compliance

610	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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#### Additional Control Measures

630	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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#### Labor Report

Completed: 5/27/2020 3:00:00 PM

Report: Jacob Knight

<u></u>	<u>5/29/2020</u>	_____ Signature / Name	_____ Date
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: William Reed DESH-UIS Group Leader (acting)

Signature:  Date: 6/10/2020



# Los Alamos National Laboratory




Work Order MSGP-RI-64397

MSGP Routine Inspection  
Printed 7/8/2020 - 11:53 AM

## Maintenance Details

**Requested:** 6/11/2020 1:36:00 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 5/27/2020  
**Project:** Routine Facility Inspections June 2020 (P-MSGP-RI-5447)  
**Reason:** 2020 June Inspections

**Target:** 6/30/2020  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

 MSGP Program  
 RG121.9  
 TA-60-2 Warehouse

**Contact:**  
**Phone:**

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <b>Comments: Partly sunny and 85 degrees F.</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**



260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200016]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200017]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200018]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	<b>EnviroSoxx w/ MetalLoxx [6000503200020]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

430	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
500	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
510	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			
520	<b>Comments: See CA# 1801: The cover on the large blue metal bin on the south side of TA-60-1 was not re-installed properly to prevent precipitation from entering the bin.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
530	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
560	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



570	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
580	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
590	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### Non-Compliance

610	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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#### Additional Control Measures

630	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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#### Labor Report

Completed: 6/22/2020 3:00:00 PM

Report: Jacob Knight

<u>J Knight</u>	<u>6/30/2020</u>		
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: William Reed URS Group Leader (acting)

Signature: William Reed Date: 2/21/2020

### Maintenance Details

**Requested:** 7/8/2020 3:57:00 PM

**Target:** 7/31/2020

 MSGP Program

**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)

**Priority/Type:** Normal / Inspection

 RG121.9

**Department:** Utilities and Infrastructure

 TA-60-2 Warehouse

**Last PM:** 6/22/2020

**Contact:**

**Project:** Routine Facility Inspections  
July 2020 (P-MSGP-RI-5455)

**Phone:**

**Reason:** 2020 July Inspections

### Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <b>Comments: Partly cloudy. 75 degrees F with 50% chance of thunderstorms.</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>					
260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



	condition & need for Maintenance, Repair, or Replacement.			
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200016]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200017]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200018]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	<b>EnviroSoxx w/ MetalLoxx [6000503200020]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

430	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
500	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
560	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
570	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
580	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

590 **Sector P [60005-]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. ☐ ☐ ☒

**Non-Compliance**

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

**Additional Control Measures**

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

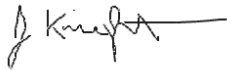
**Comments: There is very little flow velocity dissipation or sediment control at monitored outfall 075. An additional check dam and metalLox wattle will be installed in response to evaluating the site for recent stormwater samples that exceeded NM water quality standards for aluminum and copper (see CAs 1822/1823)**

630 ☒ ☐ ☐

**Labor Report**

**Completed:** 7/22/2020 11:00:00 AM

**Report:** Jacob Knight



7/28/2020

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-OPS-OM

Signature: Phillip Ulibarri 152736 Date: 8/24/20

## Maintenance Details

**Requested:** 8/5/2020 2:44:00 PM**Target:** 8/31/2020 **MSGP Program****Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)**Priority/Type:** Normal / Inspection **RG121.9****Department:** Utilities and Infrastructure **TA-60-2 Warehouse****Last PM:** 7/22/2020**Contact:****Project:** Routine Facility Inspections  
August 2020 (P-MSGP-RI-5463)**Phone:****Reason:** 2020 August Inspections

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <b>Comments: Mostly sunny. 85 degrees F. 20 % chance afternoon showers.</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. <b>Comments: See CA 1851 - The trench drain above SIO 28 is showing signs of sediment transport, and a portion of it is buried. Some sediment is migrating through the culvert to a small sediment basin with a rip rap check dam at the culvert outlet. It does not appear to be migrating further than that for now but stabilization/repair is needed.</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <b>Comments: See task 70 comments and CAR 1851 - the trench drain is still conveying water but there is sediment accumulation over portions of it and surrounding it. Stabilization/repairs are needed.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200016]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200017]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200018]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	<b>EnviroSoxx w/ MetalLoxx [6000503200020]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

430	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
500	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
560	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



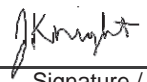
If "No" describe.

570	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
580	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
590	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Non-Compliance</b>				
610	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Additional Control Measures</b>				
630	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Labor Report

**Completed:** 8/25/2020 11:30:00 AM

**Report:** Jacob Knight

	8/26/2020		
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 Ops Mgr.

Signature: Phillip Ulibarri 152736 Date: 9/30/20

## Maintenance Details

**Requested:** 9/8/2020 2:28:00 PM**Target:** 9/30/2020 MSGP Program**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)**Priority/Type:** Normal / Inspection RG121.9**Department:** Utilities and Infrastructure TA-60-2 Warehouse**Last PM:** 8/25/2020**Contact:****Project:** Routine Facility Inspections  
September 2020 (P-MSGP-RI-5472)**Phone:****Reason:** 2020 September Inspections

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
	Describe the weather at time of inspection and document the temperature (F°).				
20	<b>Comments: 63 degrees F. Partly cloudy.</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.				
70	<b>Comments: See CA 1851 - There is loose soil around the trench drain above SIO 28. Also the area up gradient of the trench drain is disturbed and there has been evidence of sediment migration. Stabilization and trench drain repair is needed. A FSR has been submitted and an EX-ID is forthcoming.</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	"No", describe.			
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>				
260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Rock Check Dam [6000506010022]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
380	<b>Comments: See task 70 comments and CAR 1851 - the trench drain is still conveying water but there is sediment accumulation over portions of it and surrounding it. Stabilization/repairs are needed.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200016]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200017]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	<b>EnviroSoxx w/ MetalLoxx [6000503200018]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	<b>EnviroSoxx w/ MetalLoxx [6000503200020]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	<b>EnviroSoxx w/ MetalLoxx [6000503200021]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).</b>				
450	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
470	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

510	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
520	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
560	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
570	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
580	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
590	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
600	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
610	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Non-Compliance</b>				
630	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Additional Control Measures</b>				
650	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Labor Report

**Completed:** 9/22/2020 11:15:00 AM

**Report:** Jacob Knight

*J. Knight*

9/22/2020

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 Ops Mgr.

Signature: Phillip Ulibarri 152736 Date: 9/30/20



## Maintenance Details

**Requested:** 10/5/2020 10:52:00 AM**Target:** 10/31/2020 MSGP Program**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)**Priority/Type:** Normal / Inspection RG121.9**Department:** Utilities and Infrastructure TA-60-2 Warehouse**Last PM:** 9/22/2020**Contact:****Project:** Routine Facility Inspections  
October 2020 (P-MSGP-RI-5477)**Phone:****Reason:** 2020 October Inspections

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <b>Comments: Sunny and 46 degrees F.</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. <b>Comments: See CA 1851 - There is loose soil around the trench drain above SIO 28. Also the area up gradient of the trench drain is disturbed and there has been evidence of sediment migration. Stabilization and trench drain repair is needed. EX-ID is in place and planning/scheduling ongoing. Expected completion is end of Nov. 45 day extension letter was provided to EPA.</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.			
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <b>Comments: snow covered</b>	<input type="checkbox"/>	<input type="checkbox"/>	
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
370	<b>Rock Check Dam [6000506010022]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <b>Comments: snow covered</b>	<input type="checkbox"/>	<input type="checkbox"/>	
380	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <b>Comments: See task 70 comments above and CA 1851.</b>		<input type="checkbox"/>	<input type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200023]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
400	<b>EnviroSoxx w/ MetalLoxx [6000503200024]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
410	<b>EnviroSoxx w/ MetalLoxx [6000503200025]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
420	<b>EnviroSoxx w/ MetalLoxx [6000503200026]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	
430	<b>EnviroSoxx w/ MetalLoxx [6000503200027]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <b>Comments: snow covered</b>	<input type="checkbox"/>	<input type="checkbox"/>	

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

450	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	
460	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	
470	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	
480	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>		<input type="checkbox"/>
490	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	
500	Equipment operation and maintenance areas: controls adequate (appropriate, effective,	<input type="checkbox"/>	<input type="checkbox"/>	

	and operating)? If "No" describe.			
510	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
520	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
560	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
570	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
580	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
590	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. <b>Comments: Housekeeping at the yard is great. Sweeping was also accomplished on 10/22/2020</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
600	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
610	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Non-Compliance</b>				
630	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Additional Control Measures</b>				
650	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Labor Report

**Completed:** 10/29/2020 11:30:00 AM

**Report:** Jacob Knight



10/30/2020

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 Ops Mgr.

Signature: 

Date: 11/18/2020

## Maintenance Details

**Requested:** 11/4/2020 11:56:00 AM**Target:** 11/30/2020 MSGP Program**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)**Priority/Type:** Normal / Inspection RG121.9**Department:** Utilities and Infrastructure TA-60-2 Warehouse**Last PM:** 10/29/2020**Project:** Routine Facility Inspections  
November 2020 (P-MSGP-RI-5487)**Contact:**  
**Phone:****Reason:** 2020 November Inspections

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <b>Comments: Sunny, calm, and 40 degrees F.</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. <b>Comments: See CA 1851 - There is loose soil around the trench drain above SIO 28. Also, the area up gradient of the trench drain is disturbed and there has been evidence of sediment migration. Stabilization and trench drain repair is needed. The work has been planned and approved but not accomplished yet. A 45 day extension letter was sent to the EPA and likely another will need to be sent because of impact of COVID-19 on resources.</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Rock Check Dam [6000506010022]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <b>Comments: see task 70 and CA 1851 - the trench drain is still conveying water but there is sediment accumulation over portions of it and around it and it is damaged. Stabilization/repairs needed.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200023]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200024]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	<b>EnviroSoxx w/ MetalLoxx [6000503200025]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	<b>EnviroSoxx w/ MetalLoxx [6000503200026]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	<b>EnviroSoxx w/ MetalLoxx [6000503200027]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

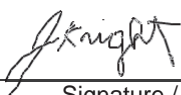
450	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
470	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Equipment operation and maintenance areas: controls adequate (appropriate, effective,	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	and operating)? If "No" describe.			
510	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
520	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
560	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
570	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
580	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
590	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. <b>Comments: See CA 1881 - On the south side of the TA-60-2 warehouse yard there was a type of powder paint (dry material ~ 2 quart volume) for use on roadways that was spilled on the ground near the dumpsters. It was swept up and disposed of right after the inspection.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
600	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
610	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Non-Compliance</b>				
630	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Additional Control Measures</b>				
650	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 11/16/2020 11:30:00 AM

**Report:** Jacob Knight

	11/18/2020		
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 Ops Mgr.

Signature: Phillip Ulibarri 152736 Date: 12/17/2020

## Maintenance Details

**Requested:** 12/1/2020 11:04:00 AM**Target:** 12/31/2020 MSGP Program**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)**Priority/Type:** Normal / Inspection RG121.9**Department:** Utilities and Infrastructure TA-60-2 Warehouse**Last PM:** 11/16/2020**Contact:****Project:** Routine Facility Inspections  
December 2020 (P-MSGP-RI-5493)**Phone:****Reason:** 2020 December Inspections

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <b>Comments: 40 degrees. Sunny.</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.				
70	<b>Comments: See existing open CA 1851 for the trench drain area in the NE corner of the yard. Extension letter has been provided to EPA.</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	and/or Receiving Water? If "No", describe.			
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>				
260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Rock Check Dam [6000506010022]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <b>Comments: See existing open CA 1851. Extension letter has been provided to the EPA.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200023]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200024]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	<b>EnviroSoxx w/ MetalLoxx [6000503200025]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	<b>EnviroSoxx w/ MetalLoxx [6000503200026]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	<b>EnviroSoxx w/ MetalLoxx [6000503200027]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).</b>				
450	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. <b>Comments: See CA 1930: At the TA-60-2 Warehouse, rusted steam piping is being stored on a metal rack in the center of the east yard uncovered. In addition, there is raw material (steel metal) stored on a pallet uncovered and rusting.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
460	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
470	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



	describe.			
520	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
560	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
570	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
580	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
590	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
600	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
610	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Non-Compliance</b>				
630	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Additional Control Measures</b>				
650	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Labor Report

**Completed:** 12/17/2020 3:15:00 PM

**Report:** Jacob Knight, DEP

*J. Knight*

12/23/2020

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 Ops Mgr.

Signature: Phillip Ulibarri 152736 Date: 1/12/21

# Los Alamos National Laboratory

Work Order MSGP-RI-64115

MSGP Routine Inspection  
Printed 11/21/2019 - 2:53 PM

## Maintenance Details

**Requested:** 11/21/2019 2:48:01 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 9/26/2019  
**Project:** Routine Facility Inspections November 2019 (P-MSGP-RI-5418)  
**Reason:** 2019 November Inspections

**Target:** 11/30/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

 MSGP Program  
 RG121.9  
 TA-60-2 Warehouse

**Contact:**  
**Phone:**

*Insps done  
11/25/19  
1:00 - 1:30*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <i>48° windy clear</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200016]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200017]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200018]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

420	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
470	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
500	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



_____ operating)? If "No" describe.		_____	_____	_____
560	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
570	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
580	<b>Sector P [60005-] Vehicle storage/maintenance areas:</b> controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Non-Compliance</b>				
600	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Additional Control Measures</b>				
620	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Burgin, Jillian	11/30/2019 / 1				

### Labor Report

**Completed:** \_\_\_\_\_

**Report:**

Burgin, J. Burgin 11/25/19

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: Russell Stone GC DESH-UTS

Signature: Russell Stone Date: 12/4/2019



# Los Alamos National Laboratory

Work Order MSGP-RI-64031

MSGP Routine Inspection  
Printed 10/14/2019 - 4:43 PM

## Maintenance Details

**Requested:** 10/14/2019 4:41:48 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 9/26/2019  
**Project:** Routine Facility Inspections October 2019 (P-MSGP-RI-5410)  
**Reason:** 2019 October Inspections

**Target:** 10/31/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

MSGP Program  
 RG121.9  
 TA-60-2 Warehouse

**Contact:**  
**Phone:**

*Snap done  
10/30/19  
11:30 - 12:00*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°).	27° Sunny cold/windy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>					
260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition &		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	need for Maintenance, Repair, or Replacement.			
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rip Rap [6000504060019]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200016]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	<b>EnviroSoxx w/ MetalLoxx [6000503200017]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	<b>EnviroSoxx w/ MetalLoxx [6000503200018]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

420	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. <i>Broken furniture (particle board needs to be cleaned up. CR# 1637</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
430	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
470	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
500	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
560	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
570	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. <i>Microbleeze</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
580	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. <i>oil spot SE corner on asphalt CR# 1638</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Non-Compliance**

600	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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**Additional Control Measures**

620	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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**Labor****Labor**

Burgin, Jillian

**Assigned**

10/14/2019 / 1

**Work Date****Reg Hrs OT Hrs Other Hrs****Labor Report****Completed:** \_\_\_\_\_**Report:**

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JBurgin JBurgin 10/30/19

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: Russell Stone GL DESH-LLIS

Signature: Russell Stone Date: 11/8/2019

# Los Alamos National Laboratory

Work Order MSGP-RI-63945

MSGP Routine Inspection  
Printed 9/13/2019 - 3:29 PM

## Maintenance Details

**Requested:** 9/13/2019 3:21:12 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)

**Target:** 9/30/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

**MSGP Program**  
**RG121.9**  
**TA-60-2 Warehouse**

**Last PM:** 7/24/2019  
**Project:** Routine Facility Inspections September 2019 (P-MSGP-RI-5401)

**Contact:**  
**Phone:**

**Reason:** 2019 September Inspections

*Insp. done  
9/26/19  
11:30 - 12:00*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°).	72° Sunny	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	Monitored Outfall [026] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [026] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [026] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [026] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Monitored Outfall [075] Free of Evidence of Erosion? If "No", describe.	Added angular rock to outfall ball.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Monitored Outfall [075] Flow Dissipation Devices Operating Effectively? If "No", describe.	Added material to outfall.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Monitored Outfall [075] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	Substantially Identical Outfall [027] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	Substantially Identical Outfall [028] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



	& need for Maintenance, Repair, or Replacement.			
290	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	EnviroSoxx w/ MetalLoxx [6000503200014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Replaced w/o 9/23/19</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	EnviroSoxx w/ MetalLoxx [6000503200015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Replaced w/o 9/23/19</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

400	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
480	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
560	Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Non-Compliance**

580	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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**Additional Control Measures**

600	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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**Labor**

Labor  
Burgin, Jillian

Assigned  
9/13/2019 / 1

Work Date

Reg Hrs OT Hrs Other Hrs

### Labor Report

Completed: \_\_\_\_\_

Report: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Burgin, J. Burgin 9/26/19

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.H.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Russell Stone GL DESH-UIS

Signature: Russell Stone

Date: 10/3/2019



# Los Alamos National Laboratory

Work Order MSGP-RI-63909

MSGP Routine Inspection  
Printed 8/13/2019 - 2:09 PM

## Maintenance Details

**Requested:** 8/13/2019 2:04:23 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)

**Target:** 8/31/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

 MSGP Program  
 RG121.9  
 TA-60-2 Warehouse

**Last PM:** 6/26/2019  
**Project:** Routine Facility Inspections August 2019 (P-MSGP-RI-5393)

**Contact:**  
**Phone:**

**Reason:** 2019 August Inspections

*Insap Done:*

*11:30 - 12:00 PM*

*8/28/19*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°).	80° Sunny	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>EnviroSoxx w/ MetalLoxx [6000503200014]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200015]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

400	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
480	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



\_\_\_\_ describe.

**Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

560 ☐ ☐ ☒

**Non-Compliance**

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

580 ☐ ☐ ☒

**Additional Control Measures**

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

600 ☐ ☐ ☒

## Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Burgin, Jillian	8/13/2019 / 1				

## Labor Report

Completed: \_\_\_\_\_

Report: \_\_\_\_\_

OBurgin / J. Burgin 8/28/19

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: Russell Stone GL DESH-UTS

Signature: Russell Stone Date: 9/5/2019

# Los Alamos National Laboratory

Work Order MSGP-RI-63829

MSGP Routine Inspection  
Printed 7/17/2019 - 1:17 PM

## Maintenance Details

**Requested:** 7/17/2019 1:12:50 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 5/29/2019  
**Project:** Routine Facility Inspections July 2019 (P-MSGP-RI-5386)  
**Reason:** MSGP Routine Facility Inspection

**Target:** 7/31/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

MSGP Program  
 RG121.9  
 TA-60-2 Warehouse

**Contact:**  
**Phone:**

*Insap. done  
7/24/19  
11:30 - 12:00*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°).	47° F	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Control Measures (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>					
260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>EnviroSoxx w/ MetalLoxx [6000503200014]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200015]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

400	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. <i>Uncovered metal - center D. Perach</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
410	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
480	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. <i>Housekeeping needed South salvage area</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
550	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
560	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Non-Compliance**

580	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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**Additional Control Measures**

600	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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**Labor**

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
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NE Section near fence line.  
CA# 1568

South salvage area & fence line.  
CA# 1567

Burgin, Jillian

7/17/2019 / 1

### Labor Report

Completed: \_\_\_\_\_

Report: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

JP Burgin, DEPT SEC 7/24/19

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: Russell Stone GC DESH-UDS

Signature: Russell Stone Date: 8/17/2019



# Los Alamos National Laboratory

Work Order MSGP-RI-63718

MSGP Routine Inspection  
Printed 6/10/2019 - 12:48 PM

## Maintenance Details

**Requested:** 6/10/2019 12:38:55 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 4/23/2019  
**Project:** Routine Facility Inspections June 2019 (P-MSGP-RI-5377)

**Target:** 6/28/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

**MSGP Program**  
RG121.9  
TA-60-2 Warehouse

**Contact:**  
**Phone:**

**Reason:** 2019 June Inspections

*Inspection done  
6/26/19  
9:30 - 10:00*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <i>73° Sunny</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Control Measures (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>EnviroSoxx w/ MetalLoxx [6000503200014]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200015]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (Identify needed maintenance or a description of corrective actions in relevant task comment).**

400	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
460	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
480	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

describe.

560 **Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

☐ ☐ ☒

**Non-Compliance**

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

☐ ☐ ☒

**Additional Control Measures**

600 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: \_\_\_\_\_

JBurgin/Jillian Burgin 6/26/19

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: Russell Stone GL DESH-UIS

Signature: Russell Stone Date: 7/16/2019



# Los Alamos National Laboratory

Work Order MSGP-63658

MSGP Monitoring Stations  
Printed 5/8/2019 - 11:35 AM

## Maintenance Details

**Requested:** 5/8/2019 11:30:25 AM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 3/26/2019  
**Project:** Routine Facility Inspections May 2019 (P-MSGP-RI-5371)  
**Reason:** MSGP Routine Facility Inspection

**Target:** 5/31/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

**MSGP Program**  
**RG121.9**  
**TA-60-2 Warehouse**

**Contact:**  
**Phone:**

*Disp. done*  
*5/29/19*  
*1:00 - 1:30 PM*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°).	58°	P/C	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	EnviroSoxx w/ MetalLoxx [6000603200014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	EnviroSoxx w/ MetalLoxx [6000503200015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

400	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
480	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
510	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

describe.

560 **Sector P [60005-]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

☐ ☐ ☒

**Non-Compliance**

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

☐ ☐ ☒

**Additional Control Measures**

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

☐ ☐ ☒

**Labor**

**Labor**

Burgin, Jillian

**Assigned**

5/8/2019 / 1

**Work Date**

**Reg Hrs**

**OT Hrs**

**Other Hrs**

**Labor Report**

Completed: \_\_\_\_\_

Report: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Burgin / CISEC, DEP 5/29/18

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: Russell Stone GL DESH - CICS

Signature: Russell Stone Date: 6/11/2019



# Los Alamos National Laboratory

Work Order MSGP-RI-63543

MSGP Routine Inspection  
Printed 4/9/2019 - 2:32 PM

## Maintenance Details

**Requested:** 4/9/2019 2:07:04 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 2/26/2019  
**Project:** Routine Facility Inspections April 2019 (P-MSGP-RI-5361)  
**Reason:** MSGP Routine Facility Inspection

**Target:** 4/30/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

**MSGP Program**  
**RG121.9**  
**TA-60-2 Warehouse**

**Contact:**  
**Phone:**

*Insap done:*  
*4/23/19*  
*11:30 - 12:00*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <i>43° Cloudy/ Rainy</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Control Measures (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	<b>EnviroSoxx w/ MetalLoxx [6000503200009]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Replaced 4/3/19</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
380	<b>EnviroSoxx w/ MetalLoxx [6000503200010]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Replaced 4/3/19</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (Identify needed maintenance or a description of corrective actions in relevant task comment).**

400	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
480	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Leak from forklift occurred earlier in morning - Clean-up in process. CAR# 1495*

describe.

560 **Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

☐ ☐ ☒

**Non-Compliance**

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

☐ ☐ ☒

**Additional Control Measures**

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

☐ ☐ ☒

**Labor**

**Labor**

Burgin, Jillian

**Assigned**

4/1/2019 / 1

**Work Date**

**Reg Hrs**

**OT Hrs**

**Other Hrs**

**Labor Report**

Completed: \_\_\_\_\_

Report: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Burgin/J. Burgin 4/23/19

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: Russell Stone GL DESH- UTS

Signature: Russ Stone Date: 5/6/2019



# Los Alamos National Laboratory

Work Order MSGP-RI-63478

MSGP Routine Inspection  
Printed 2/26/2019 - 12:07 PM

## Maintenance Details

**Requested:** 2/26/2019 11:51:49 AM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 12/19/2018  
**Project:** Routine Facility Inspections March 2019 (P-MSGP-RI-5355)

**Target:** 3/31/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

☒ MSGP Program  
☒ RG121.9  
☒ TA-60-2 Warehouse

**Contact:**  
**Phone:**

**Reason:** 2019 March Inspections

*Insp. Done*

*3/26/19 11:30 - 11:55 AM*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°).	57°	clear	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe. <i>Replace Metallorx wattles / Clean-out drainage area.</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe. <i>Replace Metallorx wattle / remove trash.</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

*area. CAR # 1484, b 1479*

*CAR # 1479*

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>clean-out 1 PM</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
310	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	EnviroSoxx w/ MetalLoxx [6000503200009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Replace - post-winter</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	EnviroSoxx w/ MetalLoxx [6000503200010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Replace - post-winter</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

400	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
470	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
480	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
490	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

describe.

560 **Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

☐ ☐ ☒

**Non-Compliance**

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

☐ ☐ ☒

**Additional Control Measures**

600 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
Burgin, Jillian	2/26/2019 / 1				

**Labor Report**

Completed: \_\_\_\_\_

Report: \_\_\_\_\_

*J. Burgin, DEP, CTSEC*  
Signature / Name

3/26/19 11:55 AM  
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: Russell Stone Col DESH-UIS

Signature: Russell Stone Date: 4/8/2019



# Los Alamos National Lab - ALDESHQSS

Work Order MSGP-RI-63469

MSGP Routine Inspection  
Printed 2/12/2019 - 9:04 AM

## Maintenance Details

**Requested:** 2/12/2019 9:00:41 AM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 12/19/2018  
**Project:** Routine Facility Inspections Feb. 2019 (P-MSGP-RI-5354)

**Target:** 2/28/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

**MSGP Program**  
**RG121.9**  
**TA-60-2 Warehouse**

**Contact:**  
**Phone:**

**Reason:** 2019 February Inspections

*Insp. done:*

*2/26/19*

*11:30 - 12:00 pm*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°).	<i>43° clear / Sunny</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe. <i>snow covered</i>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe. <i>snow covered</i>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe. <i>snow cov.</i>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe. <i>snow cov.</i>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Control Measures (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

260	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Snow cov.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
270	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Snow cov.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Snow cov.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
330	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	EnviroSoxx w/ MetalLoxx [6000503200009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Snow cov.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
380	EnviroSoxx w/ MetalLoxx [6000503200010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Snow cov.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Area/Activity exposed to stormwater (Identify needed maintenance or a description of corrective actions in relevant task comment).**

400	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
470	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
480	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
490	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



describe.

560 **Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.**

☐ ☐ ☒

**Non-Compliance**

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

☐ ☐ ☒

**Additional Control Measures**

600 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
Burgin, Jillian	2/11/2019 / 1				

**Labor Report**

Completed: \_\_\_\_\_

Report: \_\_\_\_\_

J. Burgin / Jillian Burgin (DEP, CISEC)

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

2/26/19

12:00 pm

**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: Russell Stone GC DESH-UTS

Signature: Russell Stone Date: 3/8/2019



# Los Alamos National Lab - ADESH

Work Order MSGP-RI-63457

MSGP Routine Inspection  
Printed 1/15/2019 - 2:22 PM

## Maintenance Details

**Requested:** 1/15/2019 2:09:08 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.1)  
**Last PM:** 11/30/2018  
**Project:** Routine Facility Inspections Jan. 2019 (P-MSGP-RI-5352)  
**Reason:** MSGP Routine Facility Inspection

**Target:** 1/31/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

**MSGP Program**  
**RG121.9**  
**TA-60-2 Warehouse**

**Contact:**  
**Phone:**

*Insap. 1/31/19  
10:00 - 10:30 AM*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°).	<i>36° clear / Sunny</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.	<i>Snow covered</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
120	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.	<i>slc</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
150	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.	<i>slc</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
160	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
180	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.	<i>slc</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
190	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
200	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<i>"</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>					
220	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<i>slc</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<i>slc</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
240	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe	<i>slc</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	condition & need for Maintenance, Repair, or Replacement.				
250	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
260	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
270	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
300	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
310	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
320	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
330	EnviroSoxx w/ MetalLoxx [6000503200009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	EnviroSoxx w/ MetalLoxx [6000503200010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

360	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. <i>Re-tarp p.p.ing at NW corner of yard. CAR# 14161</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
370	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
430	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
440	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
470	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Non-stormwater/illicit connections: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### Non-Compliance

550	Free of incidents of observed non-compliance not already identified above? If "No"	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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describe.

#### Additional Control Measures

570 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
Burgin, Jillian	1/15/2019 / 1				

#### Labor Report

Completed: \_\_\_\_\_

Report: \_\_\_\_\_

WO ID: MSGP-R1-63457 Page 3 of 3

Name/Z#: Jillian Burgin / 211081

Signature (lead inspector): J. Burgin, DEP / CISEC Date and Time: 1/31/19

"I confirm the information as recorded is true, accurate and complete."

10:30 AM

#### 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: Russell Stone GCL DESH-CES

Signature: Russell Stone Date: 2/28/2019



# Los Alamos National Lab - ADESH

Work Order MSGP-RI-63448

MSGP Routine Inspection  
Printed 12/17/2018 - 4:43 PM

## Maintenance Details

**Requested:** 12/17/2018 4:33:30 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.1)  
**Last PM:** 11/30/2018  
**Project:** Routine Facility Inspections Dec. 2018 (P-MSGP-RI-5353)  
**Reason:** 2018 December Inspections

**Target:** 12/31/2018  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

**MSGP Program**  
**RG121.9**  
**TA-60-2 Warehouse**

**Contact:**  
**Phone:**

*Insp. done  
12/19/18*

*2:45 - 3:30 pm*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <i>46° Fair / Windy</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Control Measures (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>					
220	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	condition & need for Maintenance, Repair, or Replacement.			
250	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>EnviroSoxx w/ MetalLoxx [6000503200009]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>EnviroSoxx w/ MetalLoxx [6000503200010]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

360	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. <i>SEE CAR # 1456</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
370	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
430	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
440	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
470	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Non-stormwater/illicit connections: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. <i>SEE CAR # 1455</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
530	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Non-Compliance**

550	Free of incidents of observed non-compliance not already identified above? If "No"	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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describe.

#### Additional Control Measures

570 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
Burgin, Jillian	12/17/2018 / 1				
Wheeler, Holly	12/17/2018 / 1				

#### Labor Report

Completed: \_\_\_\_\_

Report: \_\_\_\_\_

WO ID: MSOP-R1-63448 Page 2 of 3

Name/Z#: Jillian Burgin/211081 for Holly Wheeler/118432

Signature (lead inspector): J. Burgin / CISEC / DEP Date and Time: 12/19/18

"I confirm the information as recorded is true, accurate and complete."

3:30 PM

#### 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: Russell Stone GL DESH-UIS

Signature: Russell Stone Date: 1/11/2017



# Los Alamos National Lab - ADESH

Work Order MSGP-RI-63348

MSGP Routine Inspection  
Printed 11/26/2018 - 5:09 PM

## Maintenance Details

**Requested:** 10/29/2018 10:35:42 AM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.1)

**Target:** 11/30/2018  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

**MSGP Program**  
**RG121.9**  
**TA-60-2 Warehouse**

**Last PM:** 9/27/2018

**Project:** Routine Facility Inspections  
Nov. 2018 (P-MSGP-RI-5346)

**Contact:**  
**Phone:**

**Reason:** 2018 November Inspections

**Special Instructions:** NMR053195

*Insp done*

*11/30/18*

*10:00 - 10:30 AM*

## Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°). <i>41° Cloudy</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Control Measures (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>					
220	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

240	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
250	<b>Rip Rap [6000504060004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	<b>Rip Rap [6000504060012]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Earthen Berm [6000503010007]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Straw Wattle [6000503060013]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	<b>Rock Check Dam [6000506010001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	<b>Rock Check Dam [6000506010002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	<b>Rock Check Dam [6000506010003]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	<b>Trench Drain [6000509040011]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	<b>EnviroSoxx w/ MetalLoxx [6000503200009]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	<b>EnviroSoxx w/ MetalLoxx [6000503200010]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Area/Activity exposed to stormwater (Identify needed maintenance or a description of corrective actions in relevant task comment).**

360	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
410	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
420	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
430	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
440	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
470	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Non-stormwater/illicit connections: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
500	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. <i>Clean-up needed</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Non-Compliance**

*Site 4 Pericline run out fall*

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

☐ ☐ ☒

**Additional Control Measures**

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

570

☐ ☐ ☒

**Labor**

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Burgin, Jillian	11/1/2018 / 1				

**Labor Report**

Completed: \_\_\_\_\_

Report: \_\_\_\_\_

WO ID: \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

Name/Z#: MSGP-RI-63348  
Jillian Burgin / 211081

Signature (lead inspector): OBurgin DEP Date and Time: 11/30/18

"I confirm the information as recorded is true, accurate and complete."

CISEC

10:30 AM

**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: Russell Stone GC DESH-LIS

Signature: Russell Stone Date: 12/14/2018



# Los Alamos National Laboratory

Work Order MSGP-RI-64126

MSGP Routine Inspection  
Printed 12/10/2019 - 10:01 AM

## Maintenance Details

**Requested:** 12/10/2019 9:56:38 AM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 11/25/2019  
**Project:** Routine Facility Inspections December 2019 (P-MSGP-RI-5424)

**Target:** 12/31/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

MSGP Program  
 RG121.9  
 TA-60-2 Warehouse

**Contact:**  
**Phone:**

**Reason:** 2019 December Inspections

## Tasks

12/11/19 11:05 am

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F°).	40 F / Clear	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	<b>Monitored Outfall [026]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	<b>Monitored Outfall [026]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	<b>Monitored Outfall [026]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	<b>Monitored Outfall [026]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	<b>Monitored Outfall [075]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	<b>Monitored Outfall [075]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	<b>Monitored Outfall [075]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	<b>Monitored Outfall [075]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	<b>Substantially Identical Outfall [027]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	<b>Substantially Identical Outfall [027]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	<b>Substantially Identical Outfall [027]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	<b>Substantially Identical Outfall [028]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	<b>Substantially Identical Outfall [028]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	<b>Substantially Identical Outfall [028]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>					
260	<b>Gravel Bags [6000503100008]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	<b>Concrete/Asphalt Channel/Swale [6000504020005]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
280	<b>Eco-Block [6000503110006]</b> Control Measure is operating effectively? If "No" describe condition		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	& need for Maintenance, Repair, or Replacement.			
290	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Rip Rap [6000504060019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
340	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
370	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
380	EnviroSoxx w/ MetalLoxx [6000503200016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
390	EnviroSoxx w/ MetalLoxx [6000503200017] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
400	EnviroSoxx w/ MetalLoxx [6000503200018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).</b>				
420	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
430	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
440	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
450	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
460	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. <i>Torn trap on metal storage rack</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
470	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
480	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
490	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
500	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
510	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. <i>Metal Waste Bin full and uncovered (two bins)</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
520	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
530	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
540	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
550	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
560	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. <i>trash along the facility fence</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
570	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
580	<b>Sector P [60005-]</b> Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Non-Compliance</b>				
600	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Additional Control Measures</b>				
620	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor

### Labor

Shendo, Marwin

### Assigned

12/10/2019 / 1

### Work Date

### Reg Hrs

### OT Hrs

### Other Hrs

## Labor Report

### Completed:

12/11/2019

### Report:

(#1661) CAR 1: Tarp was torn on a metal storage rack in the Raw Metal Storage Area, Heavy  
Duty tarp was ordered but in the meantime they'll cover with tarp.  
(#1662) CAR 2: Two waste metal were full and uncovered. Were unsure when MRF will pick-up  
(#1663) CAR 3: Housekeeping - Trash along the facility fence. Sweeping was occurring during inspection  
MSL.

Signature / Name

12/11/19

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:

Russell Stone GC DESH-UIS

Signature:

Russell Stone

Date:

1/8/2020



## ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS



## memorandum

*Environmental Protection &  
Compliance Division*

*Compliance Programs Group*

To: Jacob Knight, DESH-UIS, B274  
Thru: Terrill Lemke, EPC-CP, K490 *TL*  
From: Holly Wheeler, EPC-CP, K490 *HW*  
Phone: 505-667-1312  
Symbol: EPC-DO: 20-216  
Date: **SEP 29 2020**

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual Assessment (QVA) Forms for April and May of 2020 for the TA-60-2 Warehouse**

Please find attached completed MSGP QVA forms documenting visual assessments performed during the first quarter of monitoring at the TA-60-2 Warehouse. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1:	April – May	Quarter 2:	June – July
Quarter 3:	August – September	Quarter 4:	October - November

The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.


- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.

The EPC-CP Group Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.



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.

Taunia Van Valkenburg, EPC-CP Group Leader  
Los Alamos National Laboratory

  
Manager Signature

9/28/2020  
Date

Please contact Holly Wheeler at 667-1312 (hbenson@lanl.gov) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order #
TA-60-2 Warehouse	MSGP02601	MSGP-64223
TA-60-2 Warehouse	MSGP02801	MSGP-64227

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, First Quarter, 2020  
Monitoring Year

Copy: Michael Hazen, ALDESHQSS, [mhazen@lanl.gov](mailto:mhazen@lanl.gov)  
Terrill Lemke, EPC-CP, [tlemke@lanl.gov](mailto:tlemke@lanl.gov)  
William Mairson, ALDESHQSS, [wmairson@lanl.gov](mailto:wmairson@lanl.gov)  
Enrique Torres, EWP, [etorres@lanl.gov](mailto:etorres@lanl.gov)  
Jennifer Payne, EPC-DO, [jpayne@lanl.gov](mailto:jpayne@lanl.gov)  
William Reed, DESH-UIS, [whreed@lanl.gov](mailto:whreed@lanl.gov)  
Taunia Van Valkenburg, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov)



# **ATTACHMENT 1**

Quarterly Visual Assessment Forms, First Quarter,  
2020 Monitoring Year

EPC-DO: 20-216

Date: SEP 29 2020

# Los Alamos National Laboratory

Work Order MSGP-64223

MSGP Monitoring Stations  
Printed 6/11/2020 - 2:25 PM

## Maintenance Details

Requested: 4/14/2020 2:27:00 PM

Target: 5/31/2020

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R0 Form 1)

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program

RG121.9

TA-60-2 Warehouse

Monitored Outfall (026)

MSGP02601

Last PM: 4/14/2020

Project: Visual Assessments 4/1/20 (P-MSGP-5433)

Reason: MSGP Quarterly Visual Assessment

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 (e.g., Apr-May)	Apr -may	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/13/20 @ 5:06	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/13/20 @ 5:06	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/14/20 @ 12:29	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Snowmelt .31	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parameters					
110	Is sample colorless? If "Failed", describe.	Brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	Musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	Cloudy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	Fine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

Completed: 4/14/2020 12:29:00 PM

Report: Marwin Shendo

NTSR

4/21/2020

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_



# Los Alamos National Laboratory

Work Order MSGP-64227

MSGP Monitoring Stations  
Printed 6/11/2020 - 2:26 PM

## Maintenance Details

**Requested:** 4/14/2020 2:35:00 PM  
**Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R0 Form 1)  
**Last PM:** 4/14/2020  
**Project:** Visual Assessments 4/1/20 (P-MSGP-5433)

**Target:** 5/31/2020  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

MSGP Program  
 RG121.9  
 TA-60-2 Warehouse  
 Monitored Outfall (026)  
 Substantially Identical Outfall (028)  
 MSGP02801

**Reason:** MSGP Quarterly Visual Assessment

**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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	April-May	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/13/20 12:50	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/13/20 12:50	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/14/20 11:49am	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Snowmelt 0.31 in	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	Slight yellow color (possibly from pollen)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	Sm amt veg and pollen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	Fine sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 4/14/2020 11:49:00 AM

**Report:** Alethea Banar

4/14/2020

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

Signature / Name \_\_\_\_\_ Date \_\_\_\_\_

### **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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_





To: Jacob Knight, EPC-CP, B274  
Thru: Terrill Lemke, EPC-CP, K490 *tel*  
From: Holly Wheeler, EPC-CP, K490 *HW*  
Phone: 505-667-1312  
Symbol: EPC-DO: 20-300  
Date: OCT 02 2020

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual Assessment (QVA) Forms for June and July of 2020 for the TA-60-2 Warehouse**

Please find completed MSGP QVA forms attached documenting visual assessments performed during the second quarter of monitoring at the TA-60-2 Warehouse. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1:	April – May	Quarter 2:	June – July
Quarter 3:	August – September	Quarter 4:	October - November

The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.

- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.

The EPC-CP Group Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.



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.

Taunia Van Valkenburg, EPC-CP Group Leader  
Los Alamos National Laboratory

 9/30/2020  
Manager Signature Date

Please contact Holly Wheeler at 667-1312 ([hbenson@lanl.gov](mailto:hbenson@lanl.gov)) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order #
TA-60-2 Warehouse	MSGP02601	MSGP-64387
TA-60-2 Warehouse	MSGP02701	MSGP-64405
TA-60-2 Warehouse	MSGP02801	MSGP-64406
TA-60-2 Warehouse	MSGP07501	MSGP-64433

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, Second Quarter, 2020  
Monitoring Year

Copy: Michael Hazen, Triad, ALDESHQSS, [mhazen@lanl.gov](mailto:mhazen@lanl.gov)  
William Mairson, Triad, ALDESHQSS, [wrmairson@lanl.gov](mailto:wrmairson@lanl.gov)  
Enrique Torres, Triad, EWP, [etorres@lanl.gov](mailto:etorres@lanl.gov)  
Jennifer Payne, Triad, EPC-DO, [jpayne@lanl.gov](mailto:jpayne@lanl.gov)  
Taunia Van Valkenburg, Triad, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov)  
Steve Vandebusch, Triad, OP-WSO, [steven\\_f@lanl.gov](mailto:steven_f@lanl.gov)  
Vanessa Diaz, Triad, OP-WSO, [vanesadiaz@lanl.gov](mailto:vanesadiaz@lanl.gov)  
Phillip Ulibarri, Triad, UI-OPS-OM, [phillip@lanl.gov](mailto:phillip@lanl.gov)  
[adesht-records@lanl.gov](mailto:adesht-records@lanl.gov)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov)

# **ATTACHMENT 1**

Quarterly Visual Assessment Forms, Second Quarter,  
2020 Monitoring Year

EPC-DO: 20-300

Date: OCT 02 2020



## Maintenance Details

Requested: 6/8/2020 5:55:00 PM

Target: 7/31/2020

Procedure: MSGP Quarterly Visual  
Assessment (EPC-CP-QP-  
2105 R0 Form 1)

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program

RG121.9

TA-60-2 Warehouse

Monitored Outfall (026)

MSGP02601

Last PM: 6/8/2020

Project: Visual Assessments 6/1/20  
(P-MSGP-5449)

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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	jun-july	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/6/2020 @ 5:43	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/6/2020 @ 5:43	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/8/2020 @ 13:37	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain .15	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	slightly cloudy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	coarse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

Completed: 6/8/2020 1:37:00 PM

Report: Marwin Shendo



Signature / Name

6/10/2020

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_

## Maintenance Details

Requested: 6/15/2020 2:53:00 PM

Target: 7/31/2020

Procedure: MSGP Quarterly Visual  
Assessment (EPC-CP-QP-  
2105 R0 Form 1)

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

Last PM: 6/11/2020

Project: Visual Assessments 6/1/20  
(P-MSGP-5449)

MSGP Program

RG121.9

TA-60-2 Warehouse

Monitored Outfall (026)

Substantially Identical Outfall (027)

MSGP02701

Reason: MSGP Quarterly Visual Assessment

Contact:

Phone:

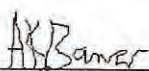
## Tasks

#	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 (e.g., Apr-May)	June-July	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/14/20 15:45	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/14/20 15:45	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/15/20 14:16	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.36 inch	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parameters					
110	Is sample colorless? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	Ants, deer droppings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	Sm. amt. fine sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

Completed: 6/15/2020 2:16:00 PM

Report: Alethea Banar



Signature / Name

6/15/2020

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_



## Maintenance Details

Requested: 6/15/2020 2:53:00 PM

Target: 7/31/2020

Procedure: MSGP Quarterly Visual  
Assessment (EPC-CP-QP-  
2105 R0 Form 1)

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

Last PM: 6/9/2020

Project: Visual Assessments 6/1/20  
(P-MSGP-5449)

MSGP Program

RG121.9

TA-60-2 Warehouse

Monitored Outfall (026)

Substantially Identical Outfall (028)

MSGP02801

Reason: MSGP Quarterly Visual Assessment

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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	June-July	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/14/20 15:45	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/14/20 15:45	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/15/20 14:21	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.36 inch	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	light brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	Fine, med. and course sediment, vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	Fine sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

Completed: 6/15/2020 2:21:00 PM

Report: Sample jar was dislodged from its original location but still appeared to be representative of SIO 028. The jar was mostly full of sediment.

Alethea Banar



Signature / Name

6/15/2020

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_



## Maintenance Details

Requested By: Banar, Alethea on  
6/17/2020 6:55:00 PMTaken By: Banar, Alethea  
Procedure: MSGP Quarterly Visual  
Assessment (EPC-CP-  
QP-2105 R0 Form 1)

Last PM: 6/17/2020

Project: Visual Assessments  
6/1/20 (P-MSGP-5449)

Target: 7/31/2020

Priority/Type: / Inspection

Department: Utilities and Infrastructure

MSGP Program

RG121.9

TA-60-2 Warehouse

Monitored Outfall (075)

MSGP07501

Contact: Banar, Alethea

Phone: 699-5836

Reason: MSGP Quarterly Visual Assessment

## Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
Sample information					
30	Document the monitoring Period (e.g., Apr-May)	jun-jul	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/14/2020 17:13	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/14/2020 17:13	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/17/2020 12:10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain .36	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parameters					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	opaque	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	fine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

Completed: 6/17/2020 12:10:00 PM

Report: Marwin Shendo

MSH

6/22/2020

I confirm the information as recorded is true, accurate and complete.

EPC-DO: 20-300

Attachment 1



### 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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_



## memorandum

*Environmental Protection & Compliance Division  
Compliance Programs Group*

To: Jacob Knight, EPC-CP, B274  
Thru: Terrill Lemke, EPC-CP, K490 *tl*  
From: Holly Wheeler, EPC-CP, K490 *HW*  
Phone: 505-667-1312  
Symbol: EPC-DO: 20-407  
Date: **JAN 13 2021**

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual Assessment (QVA) Forms for August and September of 2020 for the TA-60-2 Warehouse**

Please find attached completed MSGP QVA forms documenting visual assessments performed during the third quarter of monitoring at the TA-60-2 Warehouse. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1:	April – May	Quarter 2:	June – July
Quarter 3:	August – September	Quarter 4:	October - November

The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.

- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.

The EPC-CP Storm Water Permitting/Compliance Team Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.

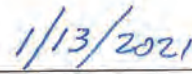


I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons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



Manager Signature



Date

Please contact Holly Wheeler at 667-1312 (hbenson@lanl.gov) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order #
TA-60-2 Warehouse	MSGP02701	MSGP-64538
TA-60-2 Warehouse	MSGP02801	MSGP-64558
TA-60-2 Warehouse	MSGP02601	MSGP-64593

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, Third Quarter, 2020  
Monitoring Year

Copy: Taunia Van Valkenburg, Triad, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov)  
Steve Vandebusch, Triad, OP-WSO, [steven\\_f@lanl.gov](mailto:steven_f@lanl.gov)  
Vanessa Diaz, Triad, OP-WSO, [vanesadiaz@lanl.gov](mailto:vanesadiaz@lanl.gov)  
Phillip Ulibarri, Triad, Triad, UI-OPS-OM, [phillip@lanl.gov](mailto:phillip@lanl.gov)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov)





# **ATTACHMENT 1**

## **Quarterly Visual Assessment Forms, Third Quarter, 2020 Monitoring Year**

EPC-DO: 20-407

Date: JAN 13 2021

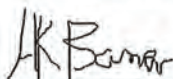
## Maintenance Details

**Requested:** 8/3/2020 2:50:00 PM**Target:** 9/30/2020 MSGP Program**Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R0 Form 1)**Priority/Type:** Normal / Inspection RG121.9**Department:** Utilities and Infrastructure TA-60-2 Warehouse**Last PM:** 8/3/2020 Monitored Outfall (026)**Project:** Visual Assessments 8/1/20 (P-MSGP-5464) Substantially Identical Outfall (027) MSGP02701**Reason:** MSGP Quarterly Visual Assessment**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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	Aug-Sept	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/1/20 14:30	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/1/20 14:30	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/3/20 12:10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.4 in	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 8/3/2020 12:10:00 PM**Report:** Alethea Banar

Signature / Name

8/3/2020

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 or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: \_\_\_\_\_



## Maintenance Details

**Requested By:** Banar, Alethea on  
8/5/2020 11:29:00 AM**Target:** 9/30/2020 MSGP Program**Taken By:** Banar, Alethea**Priority/Type:** / Inspection RG121.9**Procedure:** MSGP Quarterly Visual  
Assessment (EPC-CP-  
QP-2105 R0 Form 1)**Department:** Utilities and Infrastructure TA-60-2 Warehouse**Last PM:** 8/4/2020 Monitored Outfall (026)**Project:** Visual Assessments  
8/1/20 (P-MSGP-5464) Substantially Identical Outfall (028) MSGP02801**Contact:** Banar, Alethea**Phone:** 699-5836**Reason:** MSGP Quarterly Visual Assessment

## Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	Aug-Sept	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/3/20 16:00	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/3/20 16:00	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/4/20 11:05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.1 in	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	Fine sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 8/4/2020 11:05:00 AM**Report:** Alethea Banar

AKBumar

Signature / Name

8/5/2020

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 or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: \_\_\_\_\_



## Maintenance Details

**Requested By:** Banar, Alethea on  
8/10/2020 3:21:00 PM**Target:** 9/30/2020 MSGP Program**Taken By:** Banar, Alethea**Priority/Type:** / Inspection RG121.9**Procedure:** MSGP Quarterly Visual  
Assessment (EPC-CP-  
QP-2105 R0 Form 1)**Department:** Utilities and Infrastructure TA-60-2 Warehouse Monitored Outfall (026) MSGP02601**Last PM:** 8/5/2020**Contact:** Banar, Alethea**Project:** Visual Assessments  
8/1/20 (P-MSGP-5464)**Phone:** 699-5836**Reason:** MSGP Quarterly Visual Assessment

## Tasks

#	Description	Meas.	No	N/A	Yes
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The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.

## Sample information

30	Document the monitoring Period (e.g., Apr-May)	aug-sept	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/3/2020 17:20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/3/2020 17:20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/5/2020 15:51	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 0.1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Parameters

110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	slightly cloudy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	coarse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 8/5/2020 3:51:00 PM**Report:** Marwin Shendo

MSLP

8/12/2020

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 or Team Leader)

Print name and title: Terill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: \_\_\_\_\_



## memorandum

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

To: Jacob Knight EPC-CP, B274  
Thru: Terrill Lemke, EPC-CP, K490  
From: Holly Wheeler, EPC-CP, K490  
Phone: 505-667-1312  
Symbol: EPC-DO: 21-013  
Date: JAN 14 2021

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual Assessment (QVA) Forms for October and November of 2020 for the TA-60-2 Warehouse**

Please find attached completed MSGP QVA forms documenting visual assessments performed during the fourth quarter of monitoring at the TA-60-2 Warehouse. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1:	April – May	Quarter 2:	June – July
Quarter 3:	August – September	Quarter 4:	October - November

The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.

- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.

The EPC-CP Storm Water Permitting/Compliance Team Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.

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

  
\_\_\_\_\_  
Manager Signature

1/14/2021  
\_\_\_\_\_  
Date

Please contact Holly Wheeler at 667-1312 (hbenson@lanl.gov) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order #
TA-60-2 Warehouse	MSGP02701	MSGP-64800
TA-60-2 Warehouse	MSGP02801	MSGP-64801
TA-60-2 Warehouse	MSGP02601	MSGP-64810
TA-60-2 Warehouse	MSGP07501	MSGP-64891

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, Fourth Quarter, 2020  
Monitoring Year

Copy: Taunia Van Valkenburg, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov)  
Steve Vandenburg, OP-WSO, [steven\\_f@lanl.gov](mailto:steven_f@lanl.gov)  
Vanessa Diaz, OP-WSO, [vanesadiaz@lanl.gov](mailto:vanesadiaz@lanl.gov)  
Phillip Ulibarri, UI-OPS, [phillip@lanl.gov](mailto:phillip@lanl.gov)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov)



# **ATTACHMENT 1**

**Quarterly Visual Assessment Forms, Fourth Quarter,  
2020 Monitoring Year**

**EPC-DO: 21-013**

**Date:** JAN 14 2021

## Maintenance Details

**Requested:** 10/29/2020 2:53:00 PM**Target:** 11/30/2020 MSGP Program**Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R0 Form 1)**Priority/Type:** Normal / Inspection RG121.9**Department:** Utilities and Infrastructure TA-60-2 Warehouse**Last PM:** 10/29/2020 Monitored Outfall (026)**Project:** Visual Assessments 10/1/20 (P-MSGP-5485) Substantially Identical Outfall (027) MSGP02701**Reason:** MSGP Quarterly Visual Assessment**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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	Oct-Nov	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/27/20 10:40	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/27/20 10:40	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/29/20 12:25	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Snowmelt 0.05 in	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Parameters

110	Is sample colorless? If "Failed", describe.	Light amber (possibly from the vegetation)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	Chamisa seeds and stems	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 10/29/2020 12:25:00 PM**Report:** Alethea Banar

AKB

Signature / Name

11/2/2020

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 or Team Leader)**

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: \_\_\_\_\_



## Maintenance Details

**Requested:** 10/29/2020 2:53:00 PM**Target:** 11/30/2020 **MSGP Program****Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R0 Form 1)**Priority/Type:** Normal / Inspection **RG121.9****Department:** Utilities and Infrastructure **TA-60-2 Warehouse****Last PM:** 10/29/2020 **Monitored Outfall (026)****Project:** Visual Assessments 10/1/20 (P-MSGP-5485) **Substantially Identical Outfall (028)** **MSGP02801****Reason:** MSGP Quarterly Visual Assessment**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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	Oct-Nov	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/27/20 10:40	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/27/20 10:40	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/29/20 12:40	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Snowmelt 0.05 in	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	Vegetation- pine needles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	Fine sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 10/29/2020 12:40:00 PM**Report:** Alethea Banar

Signature / Name

11/2/2020

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 or Team Leader)**






Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: \_\_\_\_\_

## Maintenance Details

**Requested:** 11/2/2020 2:56:00 PM  
**Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R0 Form 1)

**Target:** 11/30/2020  
**Priority/Type:** / Inspection  
**Department:** Utilities and Infrastructure

 MSGP Program  
 RG121.9  
 TA-60-2 Warehouse  
 Monitored Outfall (026)  
 **MSGP02601**

**Last PM:** 10/29/2020  
**Project:** Visual Assessments 10/1/20 (P-MSGP-5485)

**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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	oct-nov	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/27/20 @ 13:26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/27/20 @ 13:26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/29/20 @ 10:54	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	.05 snowmelt	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	sl. cloudy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	veg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	coarse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 10/29/2020 10:54:00 AM

**Report:** Marwin Shendo



11/4/2020

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 or Team Leader)**

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: \_\_\_\_\_

## Maintenance Details

**Requested:** 11/12/2020 10:38:00 AM**Target:** 11/30/2020 **MSGP Program****Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R0 Form 1)**Priority/Type:** Normal / Inspection **RG121.9****Department:** Utilities and Infrastructure **TA-60-2 Warehouse** **Monitored Outfall (075)****Last PM:** 11/9/2020 **MSGP07501****Project:** Visual Assessments 10/1/20 (P-MSGP-5485)**Contact:****Reason:** MSGP Quarterly Visual Assessment**Phone:**

## Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	oct-nov	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	11/8/20 02:05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	11/8/20 02:05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	11/9/20 11:06	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain .52	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	opaque	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	fine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 11/9/2020 11:06:00 AM**Report:** Marwin Shendo

11/12/2020

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 or Team Leader)**

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: \_\_\_\_\_





## memorandum

*Environmental Protection &  
Compliance Division  
Compliance Programs Group*

To: Jillian Burgin, DESH-UIS, B274  
Thru: Terrill Lemke, EPC-CP, K490 *TL*  
From: Holly Wheeler, EPC-CP, K490 *HW*  
Phone: 505-667-1312  
Symbol: EPC-DO: 19-207  
Date:

**JUL 03 2019**

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual Assessment (QVA) Forms for April and May of 2019 for the TA-60-2 Warehouse**

Please find attached completed MSGP QVA forms documenting visual assessments performed during the first quarter of monitoring at the TA-60-2 Warehouse. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1:	April – May	Quarter 2:	June – July
Quarter 3:	August – September	Quarter 4:	October - November

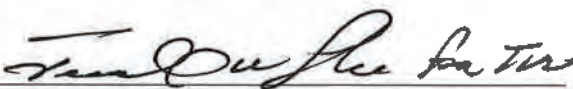
The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.

- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.

The EPC-CP Group Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.

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.

Taunia Van Valkenburg, EPC-CP Group Leader  
Los Alamos National Laboratory

 7/3/19  
Manager Signature Date

Please contact Holly Wheeler at 667-1312 (hbenson@lanl.gov) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order #
TA-60-2 Warehouse	MSGP02601	MSGP-63537
TA-60-2 Warehouse	MSGP07501	MSGP-63611
TA-60-2 Warehouse	MSGP02701	MSGP-63628
TA-60-2 Warehouse	MSGP02801	MSGP-63629

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, First Quarter, 2019  
Monitoring Year

EPC-DO: 19-207  
Jillian Burgin

Page 3

Copy: Michael Hazen, ALDESHQSS, [mhazen@lanl.gov](mailto:mhazen@lanl.gov), (E-File)  
Terrill Lemke, EPC-CP, [tlemke@lanl.gov](mailto:tlemke@lanl.gov), (E-File)  
William Mairson, ALDESHQSS, [wrmairson@lanl.gov](mailto:wrmairson@lanl.gov), (E-File)  
Russell Stone, DESH-UIS, [rdstone@lanl.gov](mailto:rdstone@lanl.gov), (E-File)  
Enrique Torres, EPC-DO, [etorres@lanl.gov](mailto:etorres@lanl.gov), (E-File)  
Taunia Van Valkenburg, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov), (E-File)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov), (E-File)  
[epc-correspondence@lanl.gov](mailto:epc-correspondence@lanl.gov), (E-File)



# **ATTACHMENT 1**

**Quarterly Visual Assessment Forms, First Quarter,  
2019 Monitoring Year**

**EPC-DO: 19-207**






**JUL 03 2019**

**Date:** \_\_\_\_\_

### Maintenance Details

**Requested By:** Wheeler, Holly on  
4/4/2019 2:54:00 PM  
**Taken By:** Wheeler, Holly  
**Procedure:** MSGP Quarterly Visual  
Assessment (EPC-CP-  
Form-1021.2)  
**Last PM:** 4/3/2019  
**Project:** Visual Assessments  
4/1/2019 (P-MSGP-  
5366)

**Target:** 5/31/2019  
**Priority/Type:** / Inspection  
**Department:** Utilities and Infrastructure

 **MSGP Program**  
 **RG121.9**  
 **TA-60-2 Warehouse**  
 **Monitored Outfall (026)**  
 **MSGP02601**

**Contact:** Wheeler, Holly  
**Phone:** 667-1312

**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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	apr-may	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/1/19 16:23	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/1/19 16:23	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/3/19 10:37	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	snowmelt	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	slightly cloudy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Labor Report

**Completed:** 4/3/2019 10:37:00 AM

**Report:** Marwin Shendo

4/4/2019

*NA*

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_








## Maintenance Details

**Requested:** 4/23/2019 3:16:00 PM  
**Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-Form-1021.2)

**Last PM:** 4/23/2019  
**Project:** Visual Assessments  
 4/1/2019 (P-MSGP-5366)

**Reason:** MSGP Quarterly Visual Assessment

**Target:** 5/31/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

 MSGP Program  
 RG121.9  
 TA-60-2 Warehouse  
 Monitored Outfall (075)  
 **MSGP07501**

**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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	Apr-May	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/22/19 @ 23:47	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/22/19 @ 23:47	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/23/19 @ 10:37	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 0.74	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	opaque	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	fine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	coarse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').	on the surface	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 4/23/2019 10:37:00 AM

**Report:** Marwin Shendo



4/26/2019

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_

# Los Alamos National Laboratory

Work Order MSGP-63628

MSGP Monitoring Stations  
Printed 5/21/2019 - 4:29 PM

## Maintenance Details

**Requested:** 4/23/2019 3:33:00 PM  
**Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-Form-1021.2)  
**Last PM:** 4/23/2019  
**Project:** SIO Visual Assessments 4/1/19 (P-MSGP-5367)

**Target:** 5/31/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

MSGP Program  
 RG121.9  
 TA-60-2 Warehouse  
 Monitored Outfall (026)  
 Substantially Identical Outfall (027)  
 **MSGP02701**

**Reason:** MSGP Quarterly Visual Assessment

**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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	April-May	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/22/19 22:50	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/22/19 22:50	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/23/19 10:46	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.74 inches	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 4/23/2019 10:46:00 AM

**Report:** Alethea Banar

Signature / Name  
EPC-DO: 19-207

4/23/2019  
Date

Attachment 1

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_

## Maintenance Details

**Requested:** 4/23/2019 3:33:00 PM  
**Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-Form-1021.2)  
**Last PM:** 4/23/2019  
**Project:** SIO Visual Assessments 4/1/19 (P-MSGP-5367)

**Target:** 5/31/2019  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

 MSGP Program  
 RG121.9  
 TA-60-2 Warehouse  
 Monitored Outfall (026)  
 Substantially Identical Outfall (028)  
 **MSGP02801**

**Reason:** MSGP Quarterly Visual Assessment

**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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	April-May	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/22/19 22:50	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/22/19 22:50	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	4/23/19 10:43	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.74 inches	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	fine sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g. 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 4/23/2019 10:43:00 AM

**Report:** Alethea Banar



4/23/2019

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

Signature / Name \_\_\_\_\_ Date \_\_\_\_\_

### 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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_





## memorandum

*Environmental Protection &  
Compliance Division  
Compliance Programs Group*

To: Jillian Burgin, DESH-UIS, B274  
Thru: Terrill Lemke, EPC-CP, K490 *TL*  
From: Holly Wheeler, EPC-CP, K490 *HW*  
Phone: 505-667-1312  
Symbol: EPC-DO: 19-323  
Date: **SEP 03 2019**

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual Assessment (QVA) Forms for June and July of 2019 for the TA-60-2 Warehouse**

Please find attached completed MSGP QVA forms documenting visual assessments performed during the second quarter of monitoring at the TA-60-2 Warehouse. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1:	April – May	Quarter 2:	June – July
Quarter 3:	August – September	Quarter 4:	October - November

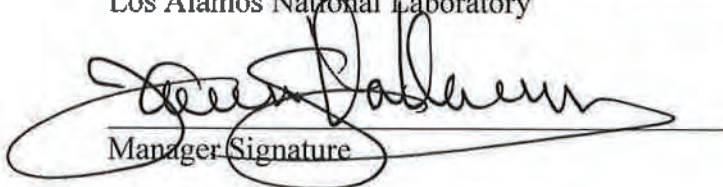
The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.

- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.

The EPC-CP Group Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.

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.

Taunia Van Valkenburg, EPC-CP Group Leader  
Los Alamos National Laboratory

  
Manager Signature

9/3/2019  
Date

Please contact Holly Wheeler at 667-1312 (hbenson@lanl.gov) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order #
TA-60-2 Warehouse	MSGP02601	MSGP-63612
TA-60-2 Warehouse	MSGP02701	MSGP-63713
TA-60-2 Warehouse	MSGP02801	MSGP-63749
TA-60-2 Warehouse	MSGP07501	MSGP-63803

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, Second Quarter, 2019  
Monitoring Year

EPC-DO: 19-323

Jillian Burgin

Copy: Michael Hazen, ALDESHQSS, [mhazen@lanl.gov](mailto:mhazen@lanl.gov)  
William Mairson, ALDESHQSS, [wrmairson@lanl.gov](mailto:wrmairson@lanl.gov)  
Russell Stone, DESH-UIS, [rdstone@lanl.gov](mailto:rdstone@lanl.gov)  
Enrique Torres, EPC-DO, [etorres@lanl.gov](mailto:etorres@lanl.gov)  
Jennifer Payne, EPC-DO, [jpayne@lanl.gov](mailto:jpayne@lanl.gov)  
Taunia Van Valkenburg, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov)  
Terrill Lemke, EPC-CP, [tlemke@lanl.gov](mailto:tlemke@lanl.gov)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov)



# **ATTACHMENT 1**

**Quarterly Visual Assessment Forms, Second Quarter,  
2019 Monitoring Year**

**EPC-DO: 19-323**

**Date:** SEP 03 2019

## Maintenance Details

Requested: 6/7/2019 10:03:00 AM

Target: 7/31/2019

MSGP Program

Procedure: MSGP Quarterly Visual  
Assessment (EPC-CP-Form-  
1021.2)

Priority/Type: Normal / Inspection

RG121.9

Department: Utilities and Infrastructure

TA-60-2 Warehouse

Last PM: 4/3/2019

Monitored Outfall (026)

Project: Visual Assessments 6/1/19  
(P-MSGP-5378)

MSGP02601

Reason: MSGP Quarterly Visual Assessment

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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	june-july	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/3/19 16:25	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/3/19 16:25	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/4/19 14:03	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 0.10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	opaque	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	fine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	coarse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

Completed: 6/4/2019 2:03:00 PM

Report: Marwin Shendo

MSL

6/13/2019

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

EPC-DO: 19-323

Attachment 1

1

### 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: Taunia Van Valkenburg, EPC-CP Group Leader







Signature: (See signature on file) Date: \_\_\_\_\_



## Maintenance Details

**Requested By:** Banar, Alethea on  
6/7/2019 9:54:00 AM  
**Taken By:** Banar, Alethea  
**Procedure:** MSGP Quarterly Visual  
Assessment (EPC-CP-  
Form-1021.2)  
**Last PM:** 6/4/2019  
**Project:** Visual Assessments  
6/1/19 (P-MSGP-5378)

**Target:** 6/21/2019  
**Priority/Type:** / Inspection  
**Department:** Utilities and Infrastructure

 MSGP Program  
 RG121.9  
 TA-60-2 Warehouse  
 Monitored Outfall (026)  
 Substantially Identical Outfall (027)  
 MSGP02701

**Contact:** Banar, Alethea  
**Phone:** 699-5836

**Reason:** MSGP Quarterly Visual Assessment

## Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	June-Jul	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/3/19 14:55	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/3/19 14:55	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/4/19 10:00	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.1 in	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 6/4/2019 10:00:00 AM

**Report:** Alethea Banar



6/7/2019

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

Signature / Name \_\_\_\_\_ Date \_\_\_\_\_

### **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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_

### Maintenance Details

**Requested By:** Banar, Alethea on  
6/17/2019 12:10:00 PM

**Target:** 7/31/2019

**Priority/Type:** / Inspection


**Taken By:** Banar, Alethea

**Department:** Utilities and Infrastructure

**Procedure:** MSGP Quarterly Visual  
Assessment (EPC-CP-  
Form-1021.2)

 MSGP Program

 RG121.9

 TA-60-2 Warehouse

 Monitored Outfall (026)

 Substantially Identical Outfall (028)

 MSGP02801

**Last PM:** 6/17/2019

**Project:** Visual Assessments  
6/1/19 (P-MSGP-5378)

**Contact:** Banar, Alethea

**Phone:** 699-5836

**Reason:** MSGP Quarterly Visual Assessment

### Tasks

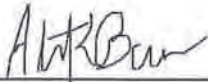
#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	June-July	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/15/19 17:40	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/15/19 17:40	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/17/19 10:37	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 0.05 in.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	yellow tint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	yellow pollen and veg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	veg and fine sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Labor Report

**Completed:** 6/17/2019 10:37:00 AM

**Report:** Alethea Banar





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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_

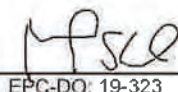
## Maintenance Details

**Requested By:** Banar, Alethea on  
7/2/2019 5:17:00 PM**Target:** 7/31/2019 **MSGP Program****Taken By:** Banar, Alethea**Priority/Type:** / Inspection **RG121.9****Procedure:** MSGP Quarterly Visual  
Assessment (EPC-CP-  
Form-1021.2)**Department:** Utilities and Infrastructure **TA-60-2 Warehouse** **Monitored Outfall (075)** **MSGP07501****Last PM:** 7/2/2019**Project:** Visual Assessments  
6/1/19 (P-MSGP-5378)**Contact:** Banar, Alethea**Phone:** 699-5836**Reason:** MSGP Quarterly Visual Assessment

## Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	Jun-july	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/2/19 13:49	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/2/19 13:49	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/2/19 15:20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 0.24 inch	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	opaque	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	veg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	fine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	coarse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 7/2/2019 3:20:00 PM**Report:** Marwin Shendo


7/3/2019

EPC-DO: 19-323

Attachment 1

7

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

Signature / Name \_\_\_\_\_ Date \_\_\_\_\_

### 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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_





To: Jillian Burgin, DESH-UIS, B274  
Thru: Terrill Lemke, EPC-CP, K490 *tl*  
From: Holly Wheeler, EPC-CP, K490 *tlw*  
Phone: 505-667-1312  
Symbol: EPC-DO: 19-383  
Date: **NOV 26 2019**

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual Assessment (QVA) Forms for August and September of 2019 for the TA-60-2 Warehouse**

Please find attached completed MSGP QVA forms documenting visual assessments performed during the third quarter of monitoring at the TA-60-2 Warehouse. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1:	April – May	Quarter 2:	June – July
Quarter 3:	August – September	Quarter 4:	October - November

The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.

- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.

The EPC-CP Group Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.

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.

Taunia Van Valkenburg, EPC-CP Group Leader  
Los Alamos National Laboratory

  
Manager Signature

11/25/19  
Date

Please contact Holly Wheeler at 667-1312 (hbenson@lanl.gov) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order #
TA-60-2 Warehouse	MSGP02701	MSGP-63881
TA-60-2 Warehouse	MSGP02701	MSGP-63883
TA-60-2 Warehouse	MSGP02801	MSGP-63884
TA-60-2 Warehouse	MSGP07501	MSGP-63892
TA-60-2 Warehouse	MSGP02601	MSGP-63896

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, Third Quarter, 2019  
Monitoring Year

Copy: Michael Hazen, ALDESHQSS, [mhazen@lanl.gov](mailto:mhazen@lanl.gov)  
William Mairson, ALDESHQSS, [wrmairson@lanl.gov](mailto:wrmairson@lanl.gov)  
Enrique Torres, EPC-DO, [etorres@lanl.gov](mailto:etorres@lanl.gov)  
Jennifer Payne, EPC-DO, [jpayne@lanl.gov](mailto:jpayne@lanl.gov)  
Russell Stone, DESH-UIS, [rdstone@lanl.gov](mailto:rdstone@lanl.gov)  
Taunia Van Valkenburg, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov)

# **ATTACHMENT 1**



**Quarterly Visual Assessment Forms, Third Quarter,  
2019 Monitoring Year**

**EPC-DO: 19-383**

**Date:** NOV 26 2019



## Maintenance Details

**Requested By:** Banar, Alethea on  
8/7/2019 3:09:00 PM**Target:** 9/30/2019 MSGP Program**Taken By:** Banar, Alethea**Priority/Type:** / Inspection RG121.9**Procedure:** MSGP Quarterly Visual  
Assessment (EPC-CP-  
Form-1021.2)**Department:** Utilities and Infrastructure TA-60-2 Warehouse Monitored Outfall (026) Substantially Identical Outfall (027)**Last PM:** 8/7/2019 MSGP02701**Project:** Visual Assessments  
8/1/19 (P-MSGP-5390)**Contact:** Banar, Alethea**Phone:** 699-5836**Reason:** MSGP Quarterly Visual Assessment

## Tasks

#	Description	Meas.	No	N/A	Yes
---	-------------	-------	----	-----	-----

The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.

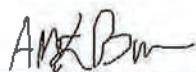
## Sample information

30	Document the monitoring Period (e.g., Apr-May)	Aug-Sept	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/6/19 16:25	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/6/19 16:25	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/7/19 09:41	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 0.18 in	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Parameters

110	Is sample colorless? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	insects	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 8/7/2019 9:41:00 AM**Report:** Alethea Banar

8/7/2019

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

Signature / Name \_\_\_\_\_ Date \_\_\_\_\_

### **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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_

## Maintenance Details

**Requested By:** Banar, Alethea on  
8/7/2019 4:45:00 PM**Target:** 9/30/2019  
**Priority/Type:** / Inspection **MSGP Program****Taken By:** Banar, Alethea **RG121.9****Procedure:** MSGP Quarterly Visual  
Assessment (EPC-CP-  
Form-1021.2)**Department:** Utilities and Infrastructure **TA-60-2 Warehouse** **Monitored Outfall (026)** **Substantially Identical Outfall (027)****Last PM:** 8/7/2019 **MSGP02701****Project:** Visual Assessments  
8/1/19 (P-MSGP-5390)**Contact:** Banar, Alethea**Phone:** 699-5836**Reason:** MSGP Quarterly Visual Assessment

## Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	Aug-Sept	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/7/19 13:10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/7/19 13:10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/7/19 16:07	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 0.71 inch	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	slight yellow tint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	fine sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 8/7/2019 4:07:00 PM**Report:** Alethea Banar

8/8/2019





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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_

## Maintenance Details

**Requested By:** Banar, Alethea on  
8/7/2019 4:51:00 PM**Target:** 9/30/2019 MSGP Program**Taken By:** Banar, Alethea**Priority/Type:** / Inspection RG121.9**Procedure:** MSGP Quarterly Visual  
Assessment (EPC-CP-  
Form-1021.2)**Department:** Utilities and Infrastructure TA-60-2 Warehouse Monitored Outfall (026) Substantially Identical Outfall (028)**Last PM:** 8/7/2019 MSGP02801**Project:** Visual Assessments  
8/1/19 (P-MSGP-5390)**Contact:** Banar, Alethea**Phone:** 699-5836**Reason:** MSGP Quarterly Visual Assessment

## Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	Aug-Sept	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/7/19 13:10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/7/19 13:10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/7/19 16:12	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 0.71 inch	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	slight yellow color	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	slightly cloudy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	fine and coarse sediment and gravel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 8/7/2019 4:12:00 PM**Report:** Alethea Banar

8/8/2019

Alvin B...

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_



## Maintenance Details

Requested: 8/8/2019 2:06:00 PM

Target: 9/30/2019


 MSGP Program

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-Form-1021.2)

Priority/Type: Normal / Inspection

 RG121.9

Department: Utilities and Infrastructure

 TA-60-2 Warehouse

Last PM: 8/8/2019

 Monitored Outfall (075)

Project: Visual Assessments 8/1/19 (P-MSGP-5390)

 MSGP07501

Reason: MSGP Quarterly Visual Assessment

Contact:

Phone:

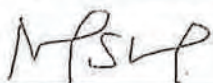
## Tasks

#	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 (e.g., Apr-May)	aug-sept	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/7/19 14:16	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/7/19 14:16	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/8/19 10:05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain .71	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parameters					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	opaque	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	fine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

Completed: 8/8/2019 10:05:00 AM

Report: Marwin Shendo



Signature / Name

8/8/2019

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_

## Maintenance Details

**Requested:** 8/8/2019 2:06:00 PM**Target:** 9/30/2019 MSGP Program**Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-Form-1021.2)**Priority/Type:** Normal / Inspection RG121.9**Department:** Utilities and Infrastructure TA-60-2 Warehouse**Last PM:** 8/8/2019 Monitored Outfall (026)**Project:** Visual Assessments 8/1/19 (P-MSGP-5390) MSGP02601**Reason:** MSGP Quarterly Visual Assessment**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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	aug-sept	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/2/19 12:57	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/2/19 12:57	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	8/8/19 10:11	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain .03	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	slightly cloudy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 8/8/2019 10:11:00 AM**Report:** Marwin Shendo

Signature / Name

8/8/2019

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_



## memorandum

*Environmental Protection &  
Compliance Division  
Compliance Programs Group*

To: Russell Stone, DESH-UIS, K760  
Thru: Terrill Lemke, EPC-DO, K490 *TL*  
From: Holly Wheeler, EPC-CP, K490 *HW*  
Phone: 505-667-1312  
Symbol: EPC-DO: 19-460  
Date: **JAN 10 2020**

**Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual Assessment (QVA) Forms for October and November of 2019 for the TA-60-2 Warehouse**

Please find attached completed MSGP QVA forms documenting visual assessments performed during the fourth quarter of monitoring at the TA-60-2 Warehouse. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1:	April – May	Quarter 2:	June – July
Quarter 3:	August – September	Quarter 4:	October - November


The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.

- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.

The EPC-CP Group Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.

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.

Taunia Van Valkenburg, EPC-CP Group Leader  
Los Alamos National Laboratory

  
Manager Signature

1/10/20  
Date

Please contact Holly Wheeler at 667-1312 (hbenson@lanl.gov) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order #
TA-60-2 Warehouse	MSGP07501	MSGP-63978
TA-60-2 Warehouse	MSGP02601	MSGP-64003
TA-60-2 Warehouse	MSGP02701	MSGP-64037
TA-60-2 Warehouse	MSGP02801	MSGP-64052

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, Fourth Quarter, 2019  
Monitoring Year

Copy: Michael Hazen, ALDESHQSS, [mhazen@lanl.gov](mailto:mhazen@lanl.gov)  
William Mairson, ALDESHQSS, [wrmairson@lanl.gov](mailto:wrmairson@lanl.gov)  
Enrique Torres, EWP, [etorres@lanl.gov](mailto:etorres@lanl.gov)  
Jennifer Payne, EPC-DO, [jpayne@lanl.gov](mailto:jpayne@lanl.gov)  
Taunia Van Valkenburg, EPC-CP, [tauniav@lanl.gov](mailto:tauniav@lanl.gov)  
Terrill Lemke, EPC-CP, [tlemke@lanl.gov](mailto:tlemke@lanl.gov)  
[epccorrespondence@lanl.gov](mailto:epccorrespondence@lanl.gov)  
[adesh-records@lanl.gov](mailto:adesh-records@lanl.gov)



# **ATTACHMENT 1**

**Quarterly Visual Assessment Forms, Fourth Quarter,  
2019 Monitoring Year**

**EPC-DO: 19-460**

**Date: JAN 10 2020**

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### Maintenance Details

**Requested:** 10/3/2019 4:23:00 PM

**Target:** 11/1/2019


**Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-Form-1021.2)

**Priority/Type:** / Inspection

**Department:** Utilities and Infrastructure

 MSGP Program

 RG121.9

 TA-60-2 Warehouse

 Monitored Outfall (075)

 **MSGP07501**

**Last PM:** 10/4/2019

**Project:** Visual Assessments 10/1/19 (P-MSGP-5407)

**Reason:** MSGP Quarterly Visual Assessment

**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.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	oct-nov	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/4/19 04:59	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/4/19 04:59	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/4/19 10:00	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain .49	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	opaque	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	coarse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	coarse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Labor Report

**Completed:** 10/4/2019 10:00:00 AM

**Report:** Marwin Shendo



10/8/2019

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_



## Maintenance Details

**Requested:** 10/7/2019 10:14:00 AM**Target:** 11/30/2019 MSGP Program**Procedure:** MSGP Quarterly Visual Assessment (EPC-CP-Form-1021.2)**Priority/Type:** Normal / Inspection RG121.9**Department:** Utilities and Infrastructure TA-60-2 Warehouse**Last PM:** 10/4/2019 Monitored Outfall (026)**Project:** Visual Assessments 10/1/19 (P-MSGP-5407) MSGP02601**Reason:** MSGP Quarterly Visual Assessment**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 (e.g., Apr-May)	oct-nov	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/4/19 04:37	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/4/19 04:37	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/4/19 10:05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain .49	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Parameters

110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	opaque	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	coarse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 10/4/2019 10:05:00 AM**Report:** Marwin Shendo

MFSLE

10/8/2019

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_

## Maintenance Details

**Requested By:** Banar, Alethea on  
10/16/2019 10:06:00 AM**Target:** 11/30/2019**Priority/Type:** / Inspection**Taken By:** Banar, Alethea**Department:** Utilities and Infrastructure**Procedure:** MSGP Quarterly Visual  
Assessment (EPC-CP-  
Form-1021.2) **MSGP Program** **RG121.9** **TA-60-2 Warehouse** **Monitored Outfall (026)** **Substantially Identical Outfall (027)** **MSGP02701****Last PM:** 10/7/2019**Project:** Visual Assessments  
10/1/19 (P-MSGP-5407)**Contact:** Banar, Alethea**Phone:** 699-5836**Reason:** MSGP Quarterly Visual Assessment

## Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	Oct-Nov	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/4/19 11:05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/4/19 11:05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/7/19 15:05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.61 in.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.	Brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	Musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	Veg fine sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Labor Report

**Completed:** 10/7/2019 3:05:00 PM**Report:** Alethea Banar

Signature / Name

10/16/2019

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_

### Maintenance Details

**Requested By:** Banar, Alethea on  
10/28/2019 12:03:00 PM

**Target:** 11/30/2019

**Priority/Type:** / Inspection

**Taken By:** Banar, Alethea

**Department:** Utilities and Infrastructure

**Procedure:** MSGP Quarterly Visual  
Assessment (EPC-CP-  
Form-1021.2)


**Last PM:** 10/25/2019

**Project:** Visual Assessments  
10/1/19 (P-MSGP-5407)

**Reason:** MSGP Quarterly Visual Assessment

 MSGP Program

 RG121.9

 TA-60-2 Warehouse

 Monitored Outfall (026)

 Substantially Identical Outfall (028)

 **MSGP02801**

**Contact:** Banar, Alethea

**Phone:** 699-5836

### Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
<b>Sample information</b>					
30	Document the monitoring Period (e.g., Apr-May)	Oct-Nov	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/24/19 11:15	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/24/19 11:15	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/25/19 8:30	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Snowmelt 0.02 inch	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Parameters</b>					
110	Is sample colorless? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	fine and course sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Labor Report

**Completed:** 10/25/2019 8:30:00 AM

**Report:** Alethea Banar

10/28/2019



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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date: \_\_\_\_\_



**ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION**

CAR	FOD	Magz Facility	Inspection Date	Specific Location	Inspector Name	Report Status	Finding Description	Problem Description	Inspection Type	Corrective Action Description	SIO	SIOs Affected	SIO Action Taken	SWPPP Modification Required?	Corrective Action Initiate Date	Corrective Action Complete Date	Complete Flag	Corrective Action Expected Date	Days Open	Status	EPA Notified Date
1930	LI	TA-60-2 Warehouse	17-Dec-20		WHEELER HOLLY L	A new corrective action	Control measures inadequate to meet non-numeric effluent limitations	At the TA-60-2 Warehouse, rusted steam piping is being stored on a metal rack in the center of the east yard uncovered. In addition, there is raw material (steel metal) stored on a pallet uncovered and rusting.	Routine facility inspection	The rusted steam piping was covered with the good tarp material that had blown off and it was secured effectively. The steel raw material was picked up by the customer and taken off the site.	N			N	17-Dec-20	22-Dec-20	Y		5	N/A	
1881	LI	TA-60-2 Warehouse	16-Nov-20		KNIGHT JACOB L	A new corrective action	Control measures inadequate to meet non-numeric effluent limitations	On the south side of the TA-60-2 warehouse yard there was a type of powder paint (dry material - 2 quart volume) for use on roadways that was spilled on the ground near the dumpsters.	Routine facility inspection	The powder material was swept up and disposed of properly.			N	16-Nov-20	16-Nov-20	Y		0			
1851	LI	TA-60-2 Warehouse	04-Sep-20		KNIGHT JACOB L	A new corrective action	Control measures inadequate to meet non-numeric effluent limitations	There is an area at the NE corner of the TA-60-2 warehouse yard that discharges to a culvert with a trench drain. The asphalt in the area is severely damaged with lots of exposed sediment, including a large bare area up-gradient of the trench drain. The trench drain is also damaged and partially buried in sediment.	Routine facility inspection	Permanent stabilization is needed, but temporary controls should be installed in the interim to limit sediment off site sediment migration. Repairs at trench drain are needed, or install new water conveyance feature(s). Gravel bags were placed temporarily on 9/9/2020. A FSR was submitted for this work on 9/10/2020. Estimates were provided to LI on 9/28/2020. On 10/6/2020 an EXID was submitted. LI has requested funding from LOG-DIV, which has been agreed to, and cost codes for the work package will be provided very soon (as of 10/14/2020). An extension letter was provided to the EPA on 10/16/2020 with a target date of 11/30/2020 for completion. Due to complications with the Covid-19 Pandemic and weather, an additional letter was sent to EPA on 11/24/2020 with a proposed completion date of 04-30-2021.	Y	028	This is specific to sedimentation issues at outfall 028	Y	04-Sep-20		N	30-Mar-21	129	see comments above	16-Oct-20
1822	LI	TA-60-2 Warehouse	20-Jul-20		WHEELER HOLLY L	A new corrective action	Impaired water quality exceedance	Discharge from outfall 075 at the TA-60-2 Warehouse exceeded the New Mexico water quality standard for dissolved Copper. The concentration of dissolved Copper discharged during the storm event on 06/14/2020 was 32.3 ug/L, and the water quality standard is 7.0 ug/L.	Impaired waters monitoring	Pole yard' site was evaluated on 7/22/2020 at 10:30. It was determined that additional controls should be implemented at the discharge point where water flow concentrates before leaving the site. On 7/26/2020, Roads and Grounds added a rip rap check dam and Medallion waste to help trap sediment and slow stormwater flow velocity.	N		Y	21-Jul-20	28-Jul-20	Y		8	N/A		
1821	LI	TA-60-2 Warehouse	20-Jul-20	Outfall 075 at the TA-60-2 Warehouse	WHEELER HOLLY L	A new corrective action	Impaired water quality exceedance	Discharge from outfall 075 at the TA-60-2 Warehouse exceeded the New Mexico water quality standard for total recoverable Aluminum. The concentration of total recoverable Aluminum discharged during the storm event on 06/14/2020 was 7,840 ug/L, and the water quality standard is 1,010 ug/L.	Impaired waters monitoring	Pole yard' site was evaluated on 7/22/2020 at 10:30. It was determined that additional controls should be implemented at the discharge point where water flow concentrates before leaving the site. On 7/26/2020, Roads and Grounds added a rip rap check dam and Medallion waste to help trap sediment and slow stormwater flow velocity.	N		Y	21-Jul-20	28-Jul-20	Y		8	N/A		
1801	LI	TA-60-2 Warehouse	22-Jun-20		KNIGHT JACOB L	A new corrective action	Control measures not properly operated or maintained	The cover on the large blue metal bin on the south side of TA-60-1 was not re-installed properly to prevent precipitation from entering the bin.	Routine facility inspection	The cover on the bin was placed appropriately and tied down correctly so it would function.	N		N	22-Jun-20	22-Jun-20	Y		0	NA		
1790	LI	TA-60-2 Warehouse	18-May-20	Outfall 026 at the TA-60-2 Warehouse	WHEELER HOLLY L	A new corrective action	Impaired water quality exceedance	Discharge from outfall 026 at the TA-60-2 Warehouse exceeded the New Mexico water quality standard for dissolved Copper. The concentration of dissolved Copper discharged during the storm event on 04/13/2020 was 23.8 ug/L, and the water quality standard is 7.0 ug/L.	Impaired waters monitoring	The entire metal storage yard was swept with a street sweeper that removes sediment and debris on 6/4/2020. A work order was put in place to sweep monthly on the 3rd Friday. During a routine MSOP inspection in March it was noted that a storage rack containing copper pipe was uncovered. A tarp cover was placed on 3/31/2020. On 6/27/2020 facility personnel agreed to move copper piping from the bottom of the rack, with potentially more exposure to stormwater, to the upper areas of the rack.	Y	Exceedance is specific to outfall 026.	Y	19-May-20	04-Jun-20	Y		17	The sweeper truck was being serviced in Albuquerque during the 14 day period.		
1768	LI	TA-60-2 Warehouse	27-Apr-20	Near the NE corner of the warehouse	KNIGHT JACOB L	A new corrective action	Unauthorized release or discharge	There was some bulk household salt material stored that was being removed and it spilled out on the ground near a storm drain at the NE corner of the facility.	Routine facility inspection	Salt was swept up and disposed of on 4/27/2020 at 3:15 pm.	N		N	27-Apr-20	27-Apr-20	Y		0	N/A		
1727	LI	TA-60-2 Warehouse	25-Mar-20	North central portion of the east yard at TA-60-2.	WHEELER HOLLY L	A new corrective action	Control measures inadequate to meet non-numeric effluent limitations	In the north central portion of the east yard at TA-60-2, a grey dumpster containing mixed recycls that is not covered.	Routine facility inspection	The dumpster had a broken ear and a cover could not be placed on it. The dumpster was removed from the facility.	N		N	25-Mar-20	31-Mar-20	Y		6	N/A		
1726	LI	TA-60-2 Warehouse	25-Mar-20	North central portion of the east yard at TA-60-2	WHEELER HOLLY L	A new corrective action	Control measures inadequate to meet non-numeric effluent limitations	Block metal raw material is stored without being covered at the TA-60-2 Salvage Warehouse.	Routine facility inspection	The items were moved to a covered area.	N		N	25-Mar-20	26-Mar-20	Y		1	N/A		
1725	LI	TA-60-2 Warehouse	25-Mar-20	Metal storage rack east of TA-60-2	WHEELER HOLLY L	A new corrective action	Control measures inadequate to meet non-numeric effluent limitations	The northern most metal storage rack located east of TA-60-2 contains copper and other metals that need to be covered during storage.	Routine facility inspection	On 3/26/2020 and 3/27/2020 winds were too gusty for placing the tarp. Tarp cover was placed on 3/31/2020.	N		N	25-Mar-20	31-Mar-20	Y		6	N/A		
1724	LI	TA-60-2 Warehouse	25-Mar-20	South of TA-60-2 salvage and warehouse.	WHEELER HOLLY L	A new corrective action	Control measures inadequate to meet non-numeric effluent limitations	South of the TA-60-2 Salvage Warehouse, there is a large blue roll-off bin that contains scrap metal for recycle destined for Ace Metals and a small blue bin in the same general area (also containing metal for recycle) that were not covered.	Routine facility inspection	Ace removed the bin the next day and then brought another that has no cover. There is metal in it again and it's too hot for facility workers to cover. On 4/30/2020 the larger bin was replaced with a smaller one for which the facility has a proper cover for and is now covered.	N		N	25-Mar-20	03-Apr-20	Y		9	N/A		

1710	LI	TA-60-2 Warehouse	27-Feb-20	Trash within the warehouse yard	SHENDO MARWIN P	A new corrective action	Control measures not properly operated or maintained	Houskeeping, trash along the fence and within the warehouse yard	Routine facility inspection	Trash needs to be picked up and disposed of properly	N	N/A		N	27-Feb-20	27-Feb-20	Y		0	N/A	
1696	LI	TA-60-2 Warehouse	23-Jan-20	East lot at the TA-60-2 Warehouse	SHENDO MARWIN P	A new corrective action	Control measures inadequate to meet non-numeric effluent limitations	East of the TA-60-2 Warehouse, a roll-off bin full of wood was uncovered.	Routine facility inspection	The roll off bin containing wood was covered.	N			N	20-Feb-20	20-Feb-20	Y		28	N/A	



**CERTIFICATION FOR CORRECTIVE ACTIONS**

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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:** Brian Watkins **Title:** Operations Manager

**Signature:** BRIAN WATKINS (Affiliate) Digitally signed by BRIAN WATKINS (Affiliate)  
Date: 2021.02.02 09:27:52 -07'00' **Date:** 2-2-2021

CAR #	FID	MSGP Facility Desc	Inspection Date	Specific Location	Inspector Name	Ident Name	CA Report Finding Status	Finding Other Desc	Problem Description	Inspection Type	Inspection Type Other	Corrective Action Description	SIO Affected	SIO Affected	Provide Action Taken at Affected SIOs	Seque Modify	CA Initiate Date	CA Complete Date	Completed	CA Expected Date	CA Status Desc	EPA Notified Date					
1603	U3	TA-60-2 Warehouse	12/11/2019 11:05	Along the fence line at the TA-60-2 Warehouse.	SHENDO MARWIN P	SHENDO MARWIN P	A new corrective action	-	Control measures inadequate to meet non-mammalian effluent limitations	-	Trash was present along the fence line at the TA-60-2 Warehouse.	Router facility inspection	-	Trash along the fence line was picked up.	N	-	-	N	12/12/2019 13:00	12/12/2019 14:00	Y	-	N/A	-			
1602	U3	TA-60-2 Warehouse	12/11/2019 11:05	Southern part of east yard at the TA-60-2 Warehouse.	SHENDO MARWIN P	SHENDO MARWIN P	A new corrective action	-	Control measures inadequate to meet non-mammalian effluent limitations	-	In the southern portion of the east yard, there were two full metal fire recycle roll-off bins that were not covered.	Router facility inspection	-	The two roll-off bins containing metal for recycle were covered.	N	-	-	N	12/18/2019 8:00	12/18/2019 9:15	Y	-	N/A	-			
1601	U3	TA-60-2 Warehouse	12/11/2019 11:05	Center of the east yard at the TA-60-2 Warehouse.	SHENDO MARWIN P	SHENDO MARWIN P	A new corrective action	-	Control measures inadequate to meet non-mammalian effluent limitations	-	Within the center portion of the east yard at the TA-60-2 Warehouse, a tarp covering the metal storage rack was torn.	Router facility inspection	-	The tarp was replaced on the metal storage rack.	N	-	-	N	12/17/2019 15:30	12/17/2019 14:00	Y	-	N/A	-			
1618	U3	TA-60-2 Warehouse	10/30/2019 12:00	SE Section of Salvage Yard	BURGIN JILLIAN E	BURGIN JILLIAN E	A new corrective action	-	Unsubstantiated release or discharge	-	At the TA-60-2 Salvage Warehouse, an oil spot needs to be cleaned up on the asphalt at the SE section of the salvage yard.	Router facility inspection	-	Microphase oil spot on asphalt.	N	-	-	N	10/30/2019 14:00	10/30/2019 16:00	Y	-	N/A	-			
1617	U3	TA-60-2 Warehouse	10/30/2019 12:00	South Side of Salvage Yard	BURGIN JILLIAN E	BURGIN JILLIAN E	A new corrective action	-	Control measures not properly operated or maintained	-	At the TA-60-2 Salvage Yard, metal furniture and particle board pieces are on the ground in the south part of the salvage yard.	Router facility inspection	-	Clean up and dispose of debris.	N	-	-	N	10/30/2019 14:00	10/30/2019 16:00	Y	-	N/A	-			
1610	U3	TA-60-2 Warehouse	9/23/2019 17:25	Outfall 075 at the TA-60-2 Warehouse.	WHEELER HOLLY L	WHEELER HOLLY L	A new corrective action	-	Impaired water quality exceedance	-	Discharge from outfall 075 at the TA-60-2 Warehouse exceeded the New Mexico water quality standard for dissolved Copper. The concentration of dissolved Copper discharged during the storm event on 09/23/2019 was 17 ug/L and the water quality standard is 7.0 ug/L.	Impaired waters monitoring	-	Personnel shall evaluate potential pollutant sources of dissolved Copper and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. 9/24/19 the outfall was evaluated and walked down with Roads & Grounds to determine what corrective actions would be taken. 9/25 The outfall was established with regular risk and a Marlin was installed.	N	-	-	Y	9/24/2019 13:00	9/25/2019 11:00	Y	-	N/A	-			
1609	U3	TA-60-2 Warehouse	9/23/2019 17:19	Outfall 075 at the TA-60-2 Warehouse.	WHEELER HOLLY L	WHEELER HOLLY L	A new corrective action	-	Impaired water quality exceedance	-	Discharge from outfall 075 at the TA-60-2 Warehouse exceeded the New Mexico water quality standard for total recoverable Aluminum. The concentration of total recoverable Aluminum discharged during the storm event on 09/23/2019 was 3,700 ug/L, and the water quality standard is 1,010 ug/L.	Impaired waters monitoring	-	Personnel shall evaluate potential pollutant sources of total recoverable Aluminum and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. 9/24/19 the outfall was evaluated and walked down with Roads & Grounds to determine what corrective actions would be taken. 9/25 The outfall was established with regular risk and a Marlin was installed.	N	-	-	Y	9/24/2019 13:00	9/25/2019 11:00	Y	-	N/A	-			
1608	U3	TA-60-2 Warehouse	9/23/2019 16:21	Outfall 026 at the TA-60-2 Warehouse.	WHEELER HOLLY L	WHEELER HOLLY L	A new corrective action	-	Impaired water quality exceedance	-	Discharge from outfall 026 at the TA-60-2 Warehouse exceeded the New Mexico water quality standard for dissolved Copper. The concentration of dissolved Copper discharged during the storm event on 09/23/2019 was 9.67 ug/L and the water quality standard is 7.0 ug/L.	Impaired waters monitoring	-	Personnel shall evaluate potential pollutant sources of dissolved Copper and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Multiple corrective actions have been taken, which post-date this exceedance. Sweeping and outfall clean-up was performed in Jul, Aug and Sept 2019. The Marlin was changed out in Sept 2019.	N	-	-	Y	9/24/2019 8:00	9/24/2019 8:00	Y	-	N/A	-			
1604	U3	TA-60-2 Warehouse	9/23/2019 16:11	Outfall 026 at the TA-60-2 Warehouse.	WHEELER HOLLY L	WHEELER HOLLY L	A new corrective action	-	Impaired water quality exceedance	-	Discharge from outfall 026 at the TA-60-2 Warehouse exceeded the New Mexico water quality standard for total recoverable Aluminum. The concentration of total recoverable Aluminum discharged during the storm event on 09/23/2019 was 3,350 ug/L, and the water quality standard is 1,010 ug/L.	Impaired waters monitoring	-	Personnel shall evaluate potential pollutant sources of total recoverable Aluminum and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Multiple corrective actions have been taken, which post-date this exceedance. Sweeping and outfall clean-up was performed in Jul, Aug and Sept 2019. The Marlin was changed out in Sept 2019.	N	-	-	Y	9/24/2019 8:00	9/24/2019 8:00	Y	-	N/A	-			
1568	U3	TA-60-2 Warehouse	7/24/2019 11:45	NE corner of warehouse pad, NE corner of Bldg. 2 and center pipe rack on east section of yard	BURGIN JILLIAN E	BURGIN JILLIAN E	A new corrective action	-	Control measures not properly operated or maintained	-	At the TA-60-2 Salvage Warehouse, metal materials need to be covered or secured. At the NE section of the facility, metal piping needs to be covered, at the NE corner of the wing of building 2, metal pipe racks need to be removed (tarp was present but had been covered from materials), at the center pipe rack in the eastern section of the yard, the tarp covering the pipe rack is torn and needs to be replaced.	Router facility inspection	-	Cover or secure metal materials as listed in locations above. Facility personnel were notified of the corrective action during the inspection.	N	-	-	N	7/24/2019 13:00	7/24/2019 14:00	Y	-	N/A	-			
1567	U3	TA-60-2 Warehouse	7/24/2019 11:45	South Salvage Area and Fenceline	BURGIN JILLIAN E	BURGIN JILLIAN E	A new corrective action	-	Other (described): Housekeeping	-	At the TA-60-2 Salvage Warehouse, housekeeping is needed at the south salvage area (materials and debris need to be cleaned up) and trash along the fenceline.	Router facility inspection	-	Perform housekeeping at the above mentioned areas. Facility personnel were notified of the corrective action at the time of inspection.	N	-	-	N	7/24/2019 13:00	7/24/2019 14:00	Y	-	N/A	-			
1532	U3	TA-60-2 Warehouse	5/31/2019 15:00	In the southern salvage yard of TA-60-2.	WHEELER HOLLY L	WHEELER HOLLY L	A new corrective action	-	Control measures inadequate to meet non-mammalian effluent limitations	-	There are several sources of copper metal stored outside in the yard uncovered.	Other (described): Facility walk-down.	-	Cover one inch diameter copper electrical wire and copper N plated parts until disposed off site. Facility personnel get the materials into an enclosed area immediately after the problem was identified.	N	-	-	N	5/31/2019 14:00	5/31/2019 14:30	Y	-	N/A	-			
1520	U3	TA-60-2 Warehouse	8/7/2019 10:15	Along the east fence at the TA-60-2 Warehouse and at outfall 027 inside the fence.	WHEELER HOLLY L	WHEELER HOLLY L	A new corrective action	-	Control measures inadequate to meet non-mammalian effluent limitations	-	Trash is present inside the fence at outfall 027 and along the east fence line at the TA-60-2 Warehouse.	Other (described): Confirmation of BMP installation	-	Clean up the trash.	Y	Only outfall 027 is affected.	Trash is only present at outfall 027, so rest other outfalls are unaffected.	N	-	-	Y	8/8/2019 11:00	8/8/2019 12:00	Y	-	Work completed 8/8/19.	-
1408	U3	TA-60-2 Warehouse	4/23/2019 10:00	Southeast Yard Area	BURGIN JILLIAN E	BURGIN JILLIAN E	A new corrective action	-	Unsubstantiated release or discharge	-	A worker temporarily parked a forklift to go into the building and when he returned to the forklift, inspection a line on it had sprung a leak, releasing less than a quart of hydraulic fluid oil.	Router facility inspection	-	The oil was immediately remediated with dry absorbent and the area was also Microflooded. This process was performed twice. Dry absorbent was placed downwind of the spill to absorb any impacted oil in stormwater on site. The spill did not leave the area or reach an outfall. The forklift was taken to Heavy Equipment for repairs.	N	-	-	Y	4/23/2019 10:30	4/23/2019 11:00	Y	-	Corrective action was completed immediately after the spill occurred. DHP observed the clean-up during the routine inspection.	-			
1479	U3	TA-60-2 Warehouse	3/26/2019 11:30	Outfalls 026 and 027	BURGIN JILLIAN E	BURGIN JILLIAN E	A new corrective action	-	Other (described): PM Needed	-	Outfalls need sediment/trash removed and new Marlin/Water installed (after winter maintenance).	Router facility inspection	-	Clean sediment and trash out of outfall draining areas and replace Marlin/water.	N	-	-	Y	4/3/2019 8:00	4/3/2019 16:00	Y	-	Reported to facility personnel at the time of inspection. Will need to contact Roads & Grounds to have them schedule work. DHP walked down with Roads & Grounds 3/29/19. Work is scheduled to be performed the week of 4/1/19. Work was performed on 4/3/19.	-			
1481	U3	TA-60-2 Warehouse	1/31/2019 10:00	NW Side of East Canopy Pipe Storage	BURGIN JILLIAN E	BURGIN JILLIAN E	A new corrective action	-	Control measures not properly operated or maintained	-	The tarp covering the pipe storage area was torn down when an icicle fell off the canopy.	Router facility inspection	-	Repair the pipe storage area.	N	-	-	N	1/31/2019 10:30	1/31/2019 11:00	Y	-	CAR was reported to facility at the time of inspection.	-			

## 8.0 SWPPP CERTIFICATION

**STORMWATER POLLUTION PREVENTION PLAN**  
**TA-60-02 Salvage/Warehouse**  
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 submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature  For

Date 1/24/2020

**Andrew W. Erickson**

Facility Operations Director

Utilities and Institutional Facilities



AR #	FOO	MSGP Facility Name	Inspection Date	Inspection Location	EA Report Status	Filing	Finishing Other Data	Problem Description	Inspection Type	Inspection Type URB	Corrective Action Description	SIO	SIO Affected	Provide Action Taken at affected site	Is Supply Modification Required?	CA/Response Date	CA Complete Date	Completed	CA Expected Date	CA Status Description	SPR Modified Date (If Ad day item issue is resolved)
456	UI	TA-60-2 Warehouse	12/19/2018 14:30	Southern portion of the yard, east of TA-60-2	A new corrective action	Control measures inadequate to meet non-hazardous effluent limitations	-	Rusted metal reinforcement for concrete was stored in the southern portion of the east yard at the TA-60-2 Warehouse uncovered.	Routine facility inspection		Cover the metal, move it under a canopy or within a building, salvage/recycle it, or dispose of it.	N	-	-	N	12/20/2018 8:00	12/20/2018 12:00	Y	-	Cover the metal, move it under a canopy or within a building, salvage/recycle it, or dispose of it. The metal was sent for recycle 12/20/18.	-
455	UI	TA-60-2 Warehouse	12/19/2018 14:30	Under the canopy on the east side of TA-60-2 by LT-6	A new corrective action	Unauthorized release or discharge	-	There is a spill of material (presumed to be from the fire suppression system) under the canopy east of TA-60-2 by LT-6.	Routine facility inspection		Clean up the spill.	N	-	-	N	12/20/2018 8:00	12/20/2018 9:00	Y	-	Clean up the spill. The area was microblasted 12/20/18.	-
425	UI	TA-60-2 Warehouse	11/30/2018 10:00	Throughout site and at fence/line and outfall areas.	A new corrective action	Control measures not properly operated or maintained	-	Trash is present throughout site and at fence/line and outfall areas.	Routine facility inspection		Housekeeping is needed throughout site and fence/line areas.	Y	027, 028	Housekeeping needed at outfall areas.	N	11/30/2018 13:00	11/30/2018 15:00	Y	-	Reported to facility personnel at the time of inspection. Housekeeping to be done 11/30/18.	-

2018 CARS

**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: Russell Stone Title: GL DESH-UIS

Signature: Russell Stone Date: 1/22/2019





## **ATTACHMENT 11: TRAINING DOCUMENTATION**



# MSGP Training Overview

Presented by the EPC-CP Stormwater  
Permitting/Compliance Team

April 2020



"GOSH, TOTO . . . WATER IN OZ MUST REALLY  
BE POLLUTED!"



# What is the MSGP?

- A nation-wide general permit
- Authorizes the discharge of stormwater from specific industrial activities to meet Clean Water Act provisions
  - MSGP contains 30 industrial sectors
- EPA is the regulatory authority
  - NM Environment Department is delegated authority to conduct inspections

# MSGP Industrial Sectors Within LANL

- LANL (Triad) has 8 of the 30 industrial sectors
  - Asphalt Paving Manufacturing (*Sector D*)
  - Fabricated Metal Products (*Sector AA*)
  - Primary Metals (*Sector F*)
  - Timber Products (*Sector A*)
  - Scrap Recycling (*Sector N*)
  - Steam Electric Generation (*Sector O*)
  - Land Transportation/Warehousing (*Sector P*)
  - Hazardous Waste Treatment, Storage, or Disposal (*Sector K*)
- *UI FOD has facilities in 6 of these sectors.*

# What is the Purpose of the MSGP?

- **Minimize** off-site migration of pollutants!
  - Ensure controls are *always* adequate (not just after identification of condition requiring corrective action or exceedance of permit limit).



# What are the Key Elements of the MSGP?

- Storm Water Pollution Prevention Plan (SWPPP)
- Storm Water Sampling
- Analytical Monitoring
- Inspections
- Corrective Actions

# Key Elements of the MSGP

- SWPPP
  - Facility-specific document identifying how MSGP requirements will be met at the facility
    - All personnel implementing MSGP requirements must be trained to, and understand it
    - Identifies potential pollutant sources
    - Describes stormwater controls used to reduce/eliminate pollutants in discharges
    - Contains procedures the facility uses to comply with terms/conditions of the permit
    - Identifies the Pollution Prevention Team (PPT)

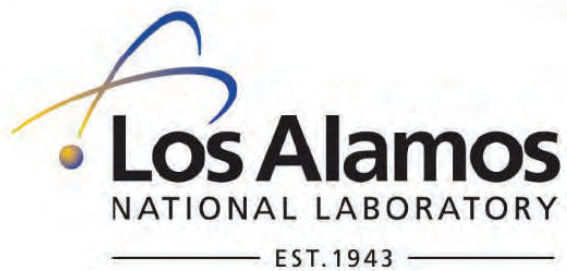
# Pollution Prevention Team

- Typically consists of the FOD/Designee, DESH Group Leader, Operations Manager, DEP, and the MSGP Program Lead
- Provides expertise to evaluate changes to the design of controls and facilitates action to resolve identified issues/conditions (i.e., Corrective Action)
- Assists with Stormwater Control Implementation
  - Design, install, and implement control measures (including best management practices) to minimize pollutant discharges and meet effluent limits



# Pollution Prevention Team (cont.)

- Stormwater Control Implementation (cont.)
  - Consider the following when selecting and designing control measures
    - Minimizing stormwater contact with potential pollutants
    - Using control measures in combination
    - Assessing the type and quantity of pollutants
    - Minimizing impervious areas and infiltrating runoff onsite
    - Attenuating flow using open vegetated swales and natural depressions
    - Conserving and/or restoring riparian buffers
    - Using treatment interceptors (e.g., vortex separators and sand filters)



# MSGP Storm Water Sampling

# What triggers a sample?

- A measureable storm event
  - One that results in an actual discharge
  - Proceed an event by at least 72-hours
- EPC-CP Database
  - Rainfall Data/Rain gages
  - Flow intensities at facilities

# How are samples collected?

- Automated Samplers
  - Avalanche (refrigerated)
  - Model 3700 (filtered)
- Grab Sample





# Avalanche Sampler



- MSGP requires sample collection to follow 40 CFR Part 136
- Some constituents require refrigeration as preservation within 15 minutes

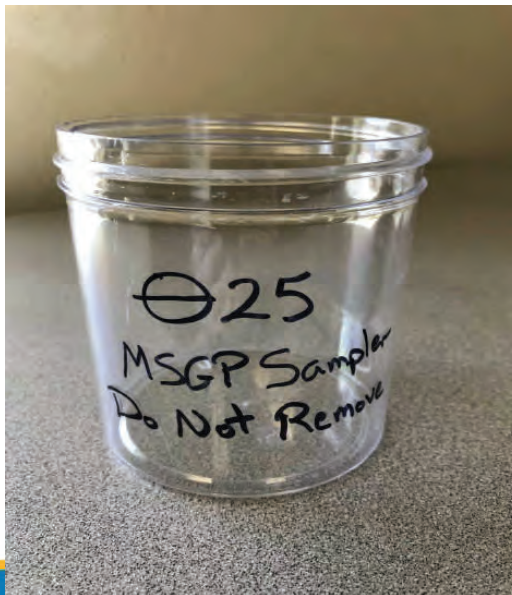
## 3700 Sampler



- Other constituents require filtering within 15 minutes

# Where are samples collected?

- Monitored Outfalls
  - Automated Samplers
- Substantially Identical Outfalls
  - Other outfalls that discharge substantially identical effluent



# What types of samples are collected?

- Samples for analysis of monitored constituents
- Samples for field parameters
  - Visual Assessment
  - pH

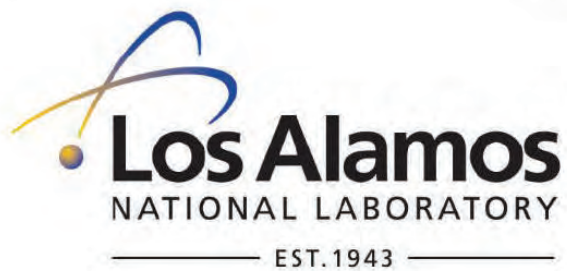


## Collection and Preservation

- Volume collected are based on 40 CFR 136 and identified in the SAP provided by EPC-CP
- Volumes from samplers are transferred to shipping containers (250mL, 500mL, 1L, etc.)
- Filter samples and add preservatives
- SMO ships to off-site analytical laboratory

# Visual Assessments

- Examination includes:
  - Odor
  - Color
  - Clarity
  - Floating solids
  - Settled solids
  - Suspended solids
  - Foam
  - Oil sheen
  - Other obvious indicators of storm water pollution



# MSGP Analytical Monitoring

# Monitoring Requirements

- **Why?**

- To demonstrate that pollutants resulting from industrial activity are not being discharged from the site (*or not exceeding numeric limits*)
- Show effectiveness of stormwater control measures

- **What? Analytical monitoring types**

- Benchmark
- Impaired Waters
- Effluent Limitation Guidelines (ELG)
- **103 Analytical Samples planned for MY20**



# Monitoring Requirements

- **How?**

- **40 CFR § 136**

- Defines Clean Water Act analytical methods, sample containers, volumes, preservatives, holding times, and cool samples immediately after collection and store  $< 6^{\circ}\text{C}$  ( $42^{\circ}\text{F}$ )

- **Laboratories performing analyses for NPDES certified under**

- National Environmental Laboratory Accreditation Program (NELAP)
- DOE Consolidated Audit Program (DOECAP)

- **20.6.4 NMAC - NM Water Quality Standards**

- Applies to Impaired Waters and some Benchmark parameters
- Dissolved metals require 0.45 micron filtration
- Total recoverable Al requires 10 micron filtration

# Monitoring Frequency

- **When?**
- **Monitoring season April 1- Nov 30**
  - **2-month quarters**
  - **Once per Quarter**
    - Benchmark monitoring
  - **Once per Year**
    - Impaired Waters
    - Effluent Limitation Guidelines (ELG)

# Benchmarks

Parameters are sector-specific – based on industrial activity

Sector	Industrial Activity	Parameter(s)	Facilities
A	Timber Products	COD, TSS	TA-3-38 Carpenter Shop
AA	Fabricated Metals	Al, Fe, Zn, NO <sub>2</sub> -+NO <sub>3</sub> -N	TA-3-38 Metals Fab Shop TA-60-1 Heavy Equipment Yard
D	Asphalt Paving	pH, TSS, Oil and Grease	TA-60 Asphalt Batch Plant
N	Scrap Recycling	N/A for subsector	TA-60 MRF
O	Steam Electric Power	Fe	TA-3-22 Power & Steam Plant
P	Land Transportation/ Warehousing	N/A	TA-16 Stockpile Yard TA-60-1 Heavy Equipment Yard TA-60-2 Warehouse TA-60 Roads and Grounds



**New for next permit:**

- Universal benchmarks for all sectors: **pH, TSS, COD**
- Fe dropped from Sector AA, O
- Hg and Pb added to Sector P

# Benchmark Limits

Benchmark limits provided in permit

- Superseded by NM WQS if different

Analyte	Field Prep Code	National Benchmark	Chronic Exposure Limit	Acute Exposure Limit	Units	Regulatory Source
Al*	F10U	750	1010	2520	ug/L	20.6.4.900 NMAC Subpart I
COD	UF	120	120	120	mg/L	NMR053195 Sect 9.6.2.1
Fe	UF	1000	1000	1000	ug/L	NMR053195 Sect 9.6.2.1
Hg	UF	1.4	0.77	0.77	ug/L	20.6.4.900 NMAC Subpart J
NO3+NO2-N	UF	0.68	0.68	0.68	mg/L	NMR053195 Sect 9.6.2.1
Pb‡*	UF	210	2	51	ug/L	20.6.4.900 NMAC Subpart I
pH	UF	6-9	6-9	6-9	SU	NMR053195 Sect 9.6.2.1
TSS	UF	100	100	100	mg/L	NMR053195 Sect 9.6.2.1
Zn*‡	F	110	76	101	ug/L	20.6.4.900 NMAC Subpart I

\* NM water quality hardness-based values replace Appendix J as benchmarks.

‡ National benchmark applies to total (unfiltered) result; NM water quality benchmark applies to dissolved (filtered) result.

NM WQS more stringent than benchmark

NM WQS is less stringent than benchmark



# Data Evaluation - Benchmarks

- Evaluate the average of 4 quarterly results against the benchmark
- Exceedances: triggers corrective action process
  - average of 4 results  $>$  benchmark or
  - average of fewer than 4 results is mathematically certain to exceed benchmark
- If average of 4  $<$  benchmark, discontinue monitoring

# Benchmark Exceedances

2016-2018 LANS permit data

Permitted Facility	Location ID	Analyte Name	Field Prep Code	QBM Sequence No.	Last Mon Sample Date	Actual Result Average	Minimum Possible Average	Report Units	Analysis Results Count	Maximum Adjusted Result	MSGP QBM Exceedance	MSGP QBM Level
TA-3-38 Metals Fab Shop	MSGP00201	Iron, total	UF	1	06/04/2016	2955.0	1477.5	ug/L	2	3640.0	Predicted	1000.0
TA-3-38 Metals Fab Shop	MSGP00201	Iron, total	UF	2	08/04/2016	4860.0	1215.0	ug/L	1	4860.0	Predicted	1000.0
TA-3-38 Metals Fab Shop	MSGP00201	Iron, total	UF	3	04/04/2017	3914.0	1957.0	ug/L	2	7370.0	Predicted	1000.0
TA-3-38 Metals Fab Shop	MSGP00201	Iron, total	UF	4	10/05/2017	1400.0	1050.0	ug/L	3	1520.0	Predicted	1000.0
TA-3-38 Metals Fab Shop	MSGP00201	Iron, total	UF	5	08/02/2018	771.0	385.5	ug/L	2	1330.0		1000.0
TA-3-38 Metals Fab Shop	MSGP00201	Aluminum, total recoverable	F10u	1	08/04/2016	1604.333	1203.25	ug/L	3	2770.0	Predicted	681.0
TA-3-38 Metals Fab Shop	MSGP00201	Aluminum, total recoverable	F10u	2	10/05/2017	799.75	799.75	ug/L	4	1280.0	True Value	681.0
TA-3-38 Metals Fab Shop	MSGP00201	Aluminum, total recoverable	F10u	3	08/02/2018	896.5	448.25	ug/L	2	1550.0		681.0
TA-3-38 Metals Fab Shop	MSGP00201	Zinc, dissolved	F	1	10/08/2016	140.075	140.075	ug/L	4	324.0	True Value	76.0
TA-3-38 Metals Fab Shop	MSGP00201	Zinc, dissolved	F	2	06/01/2017	194.5	97.25	ug/L	2	250.0	Predicted	76.0
TA-3-38 Metals Fab Shop	MSGP00201	Zinc, dissolved	F	3	07/05/2018	171.933	128.95	ug/L	3	285.0	Predicted	76.0
TA-3-38 Metals Fab Shop	MSGP00201	Zinc, dissolved	F	4	08/02/2018	78.0	19.5	ug/L	1	78.0		76.0
TA-3-39 & 102 Metal Shop	MSGP00401	Iron, total	UF	1	06/27/2016	4105.0	2052.5	ug/L	2	6620.0	Predicted	1000.0
TA-3-39 & 102 Metal Shop	MSGP00401	Iron, total	UF	2	05/09/2017	4035.0	2017.5	ug/L	2	6650.0	Predicted	1000.0
TA-3-39 & 102 Metal Shop	MSGP00401	Nitrate plus Nitrite Nitrogen	UF	1	08/03/2016	1.178	0.883	mg/L	3	2.66	Predicted	0.68
TA-3-39 & 102 Metal Shop	MSGP00401	Nitrate plus Nitrite Nitrogen	UF	2	05/09/2017	0.733	0.183	mg/L	1	0.733		0.68
TA-3-39 & 102 Metal Shop	MSGP00401	Aluminum, total recoverable	F10u	1	04/18/2016	9060.0	2265.0	ug/L	1	9060.0	Predicted	1699.0
TA-3-39 & 102 Metal Shop	MSGP00401	Aluminum, total recoverable	F10u	2	05/09/2017	2822.667	2117.0	ug/L	3	6570.0	Predicted	1699.0
TA-3-39 & 102 Metal Shop	MSGP00401	Zinc, dissolved	F	1	04/01/2017	13.45	13.45	ug/L	4	20.5		101.0
TA-3-22 Power & Steam Plant	MSGP00501	Iron, total	UF	1	07/01/2016	9980.0	2495.0	ug/L	1	9980.0	Predicted	1000.0
TA-3-22 Power & Steam Plant	MSGP00501	Iron, total	UF	2	07/15/2016	4450.0	1112.5	ug/L	1	4450.0	Predicted	1000.0
TA-3-22 Power & Steam Plant	MSGP00501	Iron, total	UF	3	04/04/2017	7566.0	5674.5	ug/L	3	20700.0	Predicted	1000.0
TA-3-22 Power & Steam Plant	MSGP00501	Iron, total	UF	4	08/07/2017	3010.0	1505.0	ug/L	2	3270.0	Predicted	1000.0
TA-3-22 Power & Steam Plant	MSGP00501	Iron, total	UF	5	05/21/2018	4620.0	2310.0	ug/L	2	6410.0	Predicted	1000.0
TA-3-22 Power & Steam Plant	MSGP00501	Iron, total	UF	6	08/03/2018	269.0	134.5	ug/L	2	367.0		1000.0
TA-3-22 Power & Steam Plant	MSGP00901	Iron, total	UF	1	06/07/2016	4015.0	2007.5	ug/L	2	5240.0	Predicted	1000.0
TA-3-22 Power & Steam Plant	MSGP00901	Iron, total	UF	2	04/01/2017	1772.333	1329.25	ug/L	3	3600.0	Predicted	1000.0
TA-3-22 Power & Steam Plant	MSGP00901	Iron, total	UF	3	10/05/2017	1573.333	1180.0	ug/L	3	2390.0	Predicted	1000.0
TA-3-22 Power & Steam Plant	MSGP00901	Iron, total	UF	4	08/03/2018	1082.5	541.25	ug/L	2	1800.0		1000.0
TA-60 Asphalt Batch Plant	MSGP04301	Total Suspended Solids (TSS)	UF	1	10/05/2017	27.4	6.85	mg/L	1	27.4		100.0
TA-3-38 Carpenter Shop	MSGP07302	Chemical Oxygen Demand (COD)	UF	1	07/26/2017	271.75	135.875	mg/L	2	463.0	Predicted	120.0
TA-3-38 Carpenter Shop	MSGP07302	Chemical Oxygen Demand (COD)	UF	2	08/16/2018	101.0	50.5	mg/L	2	202.0		120.0
TA-3-38 Carpenter Shop	MSGP07302	Total Suspended Solids (TSS)	UF	1	08/16/2018	123.683	92.763	mg/L	3	188.0		100.0

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## New: Additional Implementation Measures – Tiered Corrective Action Levels

*based on nature and magnitude of benchmark exceedances*

- Tier 1
  - a. One Annual Average > benchmark (same as current permit)
    - Average of 4 results exceeds benchmark
    - Average of fewer than 4 results is mathematically certain to exceed benchmark
  - b. One single result > 4X benchmark
- Tier 2
  - a. Two Annual Averages > benchmark
  - b. Two single results > 4x benchmark in 2 year period
  - c. One single result > 8x benchmark
- Tier 3
  - a. Three Annual Averages > benchmark
  - b. Three single results > 4x benchmark in 3 year period
  - c. Two single results > 8x benchmark in 3 year period
  - d. 4 consecutive results are each > benchmark and the average is > 2 times benchmark
- Can discontinue monitoring if the average of 4 results < benchmark  
(does not apply to new Universal benchmarks)

# Preview of Corrective Action Status with Tiered Corrective Action Levels

## 2019 Triad permit data

Permitted Facility	MSGP Station Number	Report Type	Analyte Name	Field Prep Code	QBM Sequence No.	Last Mon Sample Date	Adjusted Result Average	Adjusted Result Minimum Possible Average	Report Units	Analysis Results Count	Minimum Adjusted Result	Maximum Adjusted Result	MSGP QBM Exceedance Level	MSGP QBM Level	Maximum Adjusted Result > QBM	Tier
TA-3-22 Power & Steam Plant	MSGP00501	MSGP QBM	Iron, total	UF	1	06/15/2019	3783.0	1891.5	ug/L	2	916.0	6650.0	Predicted	1000.0	Y	1b
TA-3-22 Power & Steam Plant	MSGP00501	MSGP QBM	Iron, total	UF	2	08/07/2019	54900.0	13725.0	ug/L	1	54900.0	54900.0	Predicted	1000.0	Y	2c
TA-3-22 Power & Steam Plant	MSGP00501	MSGP QBM	Iron, total	UF	3	10/04/2019	4610.0	1152.5	ug/L	1	4610.0	4610.0	Predicted	1000.0	Y	3b
TA-3-22 Power & Steam Plant	MSGP00901	MSGP QBM	Iron, total	UF	1	04/23/2019	5290.0	1322.5	ug/L	1	5290.0	5290.0	Predicted	1000.0	Y	1b
TA-3-22 Power & Steam Plant	MSGP00901	MSGP QBM	Iron, total	UF	2	08/08/2019	3345.0	1672.5	ug/L	2	3220.0	3470.0	Predicted	1000.0	Y	2b
TA-3-22 Power & Steam Plant	MSGP00901	MSGP QBM	Iron, total	UF	3	10/04/2019	3620.0	905.0	ug/L	1	3620.0	3620.0		1000.0	Y	
TA-3-38 Carpenter Shop	MSGP07401	MSGP QBM	Chemical Oxygen Demand (COD)	UF	1	10/04/2019	54.675	54.675	mg/L	4	0.0	106.0		120.0	N	
TA-3-38 Carpenter Shop	MSGP07401	MSGP QBM	Total Suspended Solids (TSS)	UF	1	10/04/2019	78.55	78.55	mg/L	4	21.2	114.0		100.0	Y	
TA-3-38 Metals Fab Shop	MSGP00201	MSGP QBM	Aluminum, total recoverable	F10u	1	04/22/2019	222.0	55.5	ug/L	1	222.0	222.0		1010.0	N	
TA-3-38 Metals Fab Shop	MSGP00201	MSGP QBM	Iron, total	UF	1	04/22/2019	7550.0	1887.5	ug/L	1	7550.0	7550.0	Predicted	1000.0	Y	1b
TA-3-38 Metals Fab Shop	MSGP00201	MSGP QBM	Nitrate plus Nitrite Nitrogen	UF	1	04/22/2019	1.12	0.28	mg/L	1	1.12	1.12		0.68	Y	
TA-3-38 Metals Fab Shop	MSGP00201	MSGP QBM	Zinc, dissolved	F	1	04/22/2019	387.0	96.75	ug/L	1	387.0	387.0		99.0	Y	
TA-3-38 Metals Fab Shop	MSGP07601	MSGP QBM	Aluminum, total recoverable	F10u	1	10/04/2019	81128.667	60846.5	ug/L	3	896.0	241000.0	Predicted	1010.0	Y	2c
TA-3-38 Metals Fab Shop	MSGP07601	MSGP QBM	Iron, total	UF	1	08/06/2019	2365.0	1182.5	ug/L	2	1390.0	3340.0	Predicted	1000.0	Y	1a
TA-3-38 Metals Fab Shop	MSGP07601	MSGP QBM	Iron, total	UF	2	10/04/2019	7400.0	1850.0	ug/L	1	7400.0	7400.0	Predicted	1000.0	Y	1b
TA-3-38 Metals Fab Shop	MSGP07601	MSGP QBM	Nitrate plus Nitrite Nitrogen	UF	1	10/04/2019	0.656	0.492	mg/L	3	0.393	0.82		0.68	Y	
TA-3-38 Metals Fab Shop	MSGP07601	MSGP QBM	Zinc, dissolved	F	1	10/04/2019	470.333	352.75	ug/L	3	135.0	1110.0	Predicted	99.0	Y	2c
TA-60 Asphalt Batch Plant	MSGP04301	MSGP QBM	Total Suspended Solids (TSS)	UF	1	08/07/2019	101.0	50.5	mg/L	2	61.0	141.0		100.0	Y	
TA-60-1 Heavy Equipment Yard	MSGP02201	MSGP QBM	Aluminum, total recoverable	F10u	1	04/22/2019	14900.0	3725.0	ug/L	1	14900.0	14900.0	Predicted	1010.0	Y	2c
TA-60-1 Heavy Equipment Yard	MSGP02201	MSGP QBM	Aluminum, total recoverable	F10u	2	10/04/2019	1596.667	1197.5	ug/L	3	1430.0	1860.0	Predicted	1010.0	Y	1a
TA-60-1 Heavy Equipment Yard	MSGP02201	MSGP QBM	Iron, total	UF	1	07/02/2019	4910.0	2455.0	ug/L	2	1300.0	8520.0	Predicted	1000.0	Y	2c
TA-60-1 Heavy Equipment Yard	MSGP02201	MSGP QBM	Iron, total	UF	2	10/04/2019	1090.0	545.0	ug/L	2	1080.0	1100.0		1000.0	Y	
TA-60-1 Heavy Equipment Yard	MSGP02201	MSGP QBM	Nitrate plus Nitrite Nitrogen	UF	1	08/06/2019	1.131	0.848	mg/L	3	0.742	1.48	Predicted	0.68	Y	1a
TA-60-1 Heavy Equipment Yard	MSGP02201	MSGP QBM	Nitrate plus Nitrite Nitrogen	UF	2	10/04/2019	0.642	0.161	mg/L	1	0.642	0.642		0.68	N	
TA-60-1 Heavy Equipment Yard	MSGP02201	MSGP QBM	Zinc, dissolved	F	1	04/22/2019	657.0	164.25	ug/L	1	657.0	657.0	Predicted	99.0	Y	1b
TA-60-1 Heavy Equipment Yard	MSGP02201	MSGP QBM	Zinc, dissolved	F	2	10/04/2019	114.533	85.9	ug/L	3	82.6	148.0		99.0	Y	

Tier 1
Tier 2
Tier 3



# Impaired Waters

Parameters and limits are receiving-water specific

– CWA 303d/305b Integrated Report is revised by NMED biennially  
(next revision due late 2020)

Assessment Unit	Description	Parameter(s)	Facility
NM-9000.A_047 (perennial flow - chronic exposure risk)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Al, Cu, PCBs	TA-3-22 Power & Steam Plant TA-3-38 Carpenter Shop TA-3-38 Metals Fab Shop TA-60 MRF TA-60-1 Heavy Equipment Yard TA-60-2 Warehouse TA-60 Roads and Grounds
NM-9000.A_042 (ephemeral flow – acute exposure risk)	Mortandad Canyon (within LANL)	Cu, Hg, PCBs, Adjusted Gross Alpha	TA-60-Asphalt Batch Plant TA-60 Roads and Grounds
NM-128.A_01 (ephemeral flow - acute exposure risk)	Canon de Valle (below LANL gage E256)	Adjusted Gross Alpha	TA-16 Stockpile Yard

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# Impaired Waters Limits

## 20.6.4 NMAC – Water Quality Standards Limits are risk-based by exposure type

Parameter	Field Prep Code	Chronic Exposure Limit	Acute Exposure Limit	Units	Regulatory Source
Al	F10U	1010	2520	ug/L	20.6.4.900 NMAC Subpart I
Cu	F	7	11	ug/L	20.6.4.900 NMAC Subpart I
Hg	UF	0.77	0.77	ug/L	20.6.4.900 NMAC Subpart J
Pb	F	2	51	ug/L	20.6.4.900 NMAC Subpart I
GROSSA-Adj	UF	15	15	pCi/L	20.6.4.900 NMAC Subpart J
Tot Aroclor	UF	0.2	0.2	ug/L	20.6.4.900 NMAC Subpart J/ 20.6.4.12 Subpart E

Lower WQS limit for chronic exposure

Higher WQS limit for acute exposure

- Any WQS exceedance is a permit violation and triggers the corrective action process
- Current permit – if the parameter is not detected, monitoring may be discontinued
- New: parameter must not be detected for three consecutive years for monitoring to be discontinued**



# Exceedances– Impaired Waters

2019 Triad permit data

Permitted Facility	MSGP Station Number	Report Type	Level Type	Analyte Name	Field Prep Code	Current Mon Status	Last Mon Sample Date	Report Units	Analysis Results Count	Detected Results Count	Minimum Adjusted Result	Maximum Adjusted Result	MSGP I Level	Maximum Adjusted Result > I
TA-3-22 Power & Steam Plant	MSGP00501	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	Mon	4/22/2019 ug/L	ug/L	1	1	18300	18300	1010	Y
TA-3-22 Power & Steam Plant	MSGP00501	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	4/22/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-3-22 Power & Steam Plant	MSGP00501	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	4/22/2019 ug/L	ug/L	1	1	15.9	15.9	7	Y
TA-3-22 Power & Steam Plant	MSGP00901	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	Mon	4/23/2019 ug/L	ug/L	1	1	6550	6550	1010	Y
TA-3-22 Power & Steam Plant	MSGP00901	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	4/23/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-3-22 Power & Steam Plant	MSGP00901	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	4/23/2019 ug/L	ug/L	1	1	11.9	11.9	7	Y
TA-3-22 Power & Steam Plant	MSGP01201	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	7/25/2019 ug/L	ug/L	1	1	13.5	13.5	7	Y
TA-3-38 Carpenter Shop	MSGP07401	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	Mon	5/10/2019 ug/L	ug/L	1	1	728	728	1010	N
TA-3-38 Carpenter Shop	MSGP07401	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	5/10/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-3-38 Carpenter Shop	MSGP07401	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	5/10/2019 ug/L	ug/L	1	1	2.94	2.94	7	N
TA-3-38 Metals Fab Shop	MSGP00201	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	NoRpt	4/22/2019 ug/L	ug/L	1	1	222	222	1010	N
TA-3-38 Metals Fab Shop	MSGP00201	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	NoRpt	4/22/2019 ug/L	ug/L	1	1	24.9	24.9	7	Y
TA-3-38 Metals Fab Shop	MSGP07601	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	Mon	6/17/2019 ug/L	ug/L	1	1	1490	1490	1010	Y
TA-3-38 Metals Fab Shop	MSGP07601	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	6/17/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-60 Asphalt Batch Plant	MSGP04301	MSGP I	NM 2010 Lvsik Wtr	Adjusted Gross Alpha	UF	Mon	7/25/2019 pCi/L	pCi/L	1	1	3.96	3.96	15	N
TA-60 Asphalt Batch Plant	MSGP04301	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	7/25/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-60 Asphalt Batch Plant	MSGP04301	MSGP I	NM 2010 Aqu Acute 80 mg	Copper, dissolved	F	Mon	7/25/2019 ug/L	ug/L	1	1	3.1	3.1	11	N
TA-60 Asphalt Batch Plant	MSGP04301	MSGP I	NM 2010 Wildif Hab	Mercury, total	UF	NMM	7/25/2019 ug/L	ug/L	1	0	0	0	0.77	N
TA-60 MRF	MSGP02901	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	Mon	4/22/2019 ug/L	ug/L	1	1	816	816	1010	N
TA-60 MRF	MSGP02901	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	4/22/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-60 MRF	MSGP02901	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	4/22/2019 ug/L	ug/L	1	1	41.8	41.8	7	Y
TA-60 Roads and Grounds	MSGP03101	MSGP I	NM 2010 Lvsik Wtr	Adjusted Gross Alpha	UF	Mon	7/25/2019 pCi/L	pCi/L	1	1	0.495	0.495	15	N
TA-60 Roads and Grounds	MSGP03101	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	7/25/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-60 Roads and Grounds	MSGP03101	MSGP I	NM 2010 Aqu Acute 80 mg	Copper, dissolved	F	Mon	7/25/2019 ug/L	ug/L	1	1	8	8	11	N
TA-60 Roads and Grounds	MSGP03101	MSGP I	NM 2010 Wildif Hab	Mercury, total	UF	NMM	7/25/2019 ug/L	ug/L	1	0	0	0	0.77	N
TA-60 Roads and Grounds	MSGP03201	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	4/22/2019 ug/L	ug/L	1	1	5.14	5.14	7	N
TA-60 Roads and Grounds	MSGP03201	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	Mon	4/30/2019 ug/L	ug/L	1	1	1380	1380	1010	Y
TA-60 Roads and Grounds	MSGP03201	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	4/30/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-60 Roads and Grounds	MSGP03701	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	Mon	7/26/2019 ug/L	ug/L	1	1	6580	6580	1010	Y
TA-60 Roads and Grounds	MSGP03701	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	7/26/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-60 Roads and Grounds	MSGP03701	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	7/26/2019 ug/L	ug/L	1	1	3.23	3.23	7	N
TA-60 Roads and Grounds	MSGP03901	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	7/25/2019 ug/L	ug/L	1	1	7.74	7.74	7	Y
TA-60 Roads and Grounds	MSGP04201	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	Mon	4/23/2019 ug/L	ug/L	1	1	2050	2050	1010	Y
TA-60 Roads and Grounds	MSGP04201	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	4/23/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-60 Roads and Grounds	MSGP04201	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	4/23/2019 ug/L	ug/L	1	1	4.75	4.75	7	N
TA-60-1 Heavy Equipment Yard	MSGP02201	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	Mon	4/22/2019 ug/L	ug/L	1	1	14900	14900	1010	Y
TA-60-1 Heavy Equipment Yard	MSGP02201	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	4/22/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-60-1 Heavy Equipment Yard	MSGP02201	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	4/22/2019 ug/L	ug/L	1	1	13.4	13.4	7	Y
TA-60-2 Warehouse	MSGP02601	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	Mon	4/1/2019 ug/L	ug/L	1	1	2350	2350	1010	Y
TA-60-2 Warehouse	MSGP02601	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	4/1/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-60-2 Warehouse	MSGP02601	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	4/1/2019 ug/L	ug/L	1	1	9.67	9.67	7	Y
TA-60-2 Warehouse	MSGP07501	MSGP I	NM 2010 Aqu Chronic 80 mg	Aluminum, total recoverable	F10u	Mon	4/22/2019 ug/L	ug/L	1	1	5760	5760	1010	Y
TA-60-2 Warehouse	MSGP07501	MSGP I	2007 EPA R6 MQL	Aroclor, total	UF	NMM	4/22/2019 ug/L	ug/L	1	0	0	0	0.2	N
TA-60-2 Warehouse	MSGP07501	MSGP I	NM 2010 Aqu Chronic 80 mg	Copper, dissolved	F	Mon	4/22/2019 ug/L	ug/L	1	1	37	37	7	Y

Not-detected - discontinue monitoring

WQS Exceedance - violation and corrective action

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# Effluent Limitation Guidelines

## Sector D – Asphalt Batch Plant

Analyte	Field Prep Code	Daily Min	Daily Max	30-Day Avg	Units
Oil and Grease	UF		15	10	mg/L
pH	UF	6	9		SU
TSS	UF		23	15	mg/L

- Any exceedance is a permit violation and triggers the corrective action process;
  - A follow-up sample must be collected within 30 days or during the next qualifying storm event.
- If follow-up result also exceeds, submit an ELG Exceedance Report to EPA and monitoring moves from annual to quarterly until results return to compliance.



# Exceedances- ELG

2019 Triad permit data

Permitted Facility	MSGP Station Number	Level Type	Analyte Name	Field Prep Code	Last Mon Sample Date	Actual Result Average	Report Units	Analysis Results Count	Detected Results Count	Minimum Adjusted Result	Maximum Adjusted Result	MSGP ELG Exceedance	MSGP ELG Daily Min Level	Minimum Adjusted Result < ELG	MSGP ELG Daily Max Level	Maximum Adjusted Result > ELG	MSGP ELG 30-Day Avg Sequence No.	MSGP ELG 30-Day Avg Level	MSGP ELG 30-Day Avg Adjusted Result	MSGP 30-Day Avg Adjusted Result > ELG
TA-60 Asphalt Batch Plant	MSGP04301	MSGP ELG Daily Max, MSGP ELG 30-Day Avg	Oil and Grease	UF	07/25/2019	1.41	mg/L	1	0	0.0	0.0	N			15.0	N	1	10.0	0.0	N
TA-60 Asphalt Batch Plant	MSGP04301	MSGP ELG Daily Max, MSGP ELG 30-Day Avg	Total Suspended Solids (TSS)	UF	07/25/2019	141.0	mg/L	1	1	141.0	141.0	Y			23.0	Y	1	15.0	141.0	Y
TA-60 Asphalt Batch Plant	MSGP04301	MSGP ELG Daily Max, MSGP ELG 30-Day Avg	Total Suspended Solids (TSS)	UF	08/07/2019	101.0	mg/L	2	2	61.0	141.0	Y			23.0	Y	2	15.0	101.0	Y
TA-60 Asphalt Batch Plant	MSGP04301	MSGP ELG Daily Max, MSGP ELG Daily Min	pH	UF	08/07/2019	9.03	SU	2	0	8.93	9.13	Y	6.0	N	9.0	Y				

TSS and pH - 2 exceedances in 2019

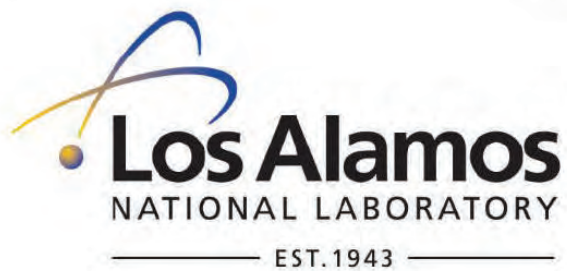
- Submitted Exceedance Report to EPA
- Now monitoring quarterly until results return to compliance

**Every TSS result at Asphalt Batch Plant since 2011 has exceeded the ELG**

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# Summary

- Consistent pattern of repeated exceedances for the same parameters at most locations
- Need to evaluate the appropriateness and effectiveness of corrective actions
- New AIM Tiered Corrective Action process requires increasingly more prescriptive and robust responses
  - Tier 1 – Review existing controls, add new controls, continue monitoring (same as current requirement)
  - Tier 2 – Implement Sector-specific stormwater controls
  - Tier 3 – Install permanent controls
- LANL's environmental compliance data are published on EPA's Enforcement and Compliance History Online (ECHO) public website. Environmental groups and stakeholders review and assess facility data nationwide to advocate for more stringent permit conditions.



# MSGP Routine Facility Inspections

## When Do I Perform A Routine Facility Inspection (RFI)?

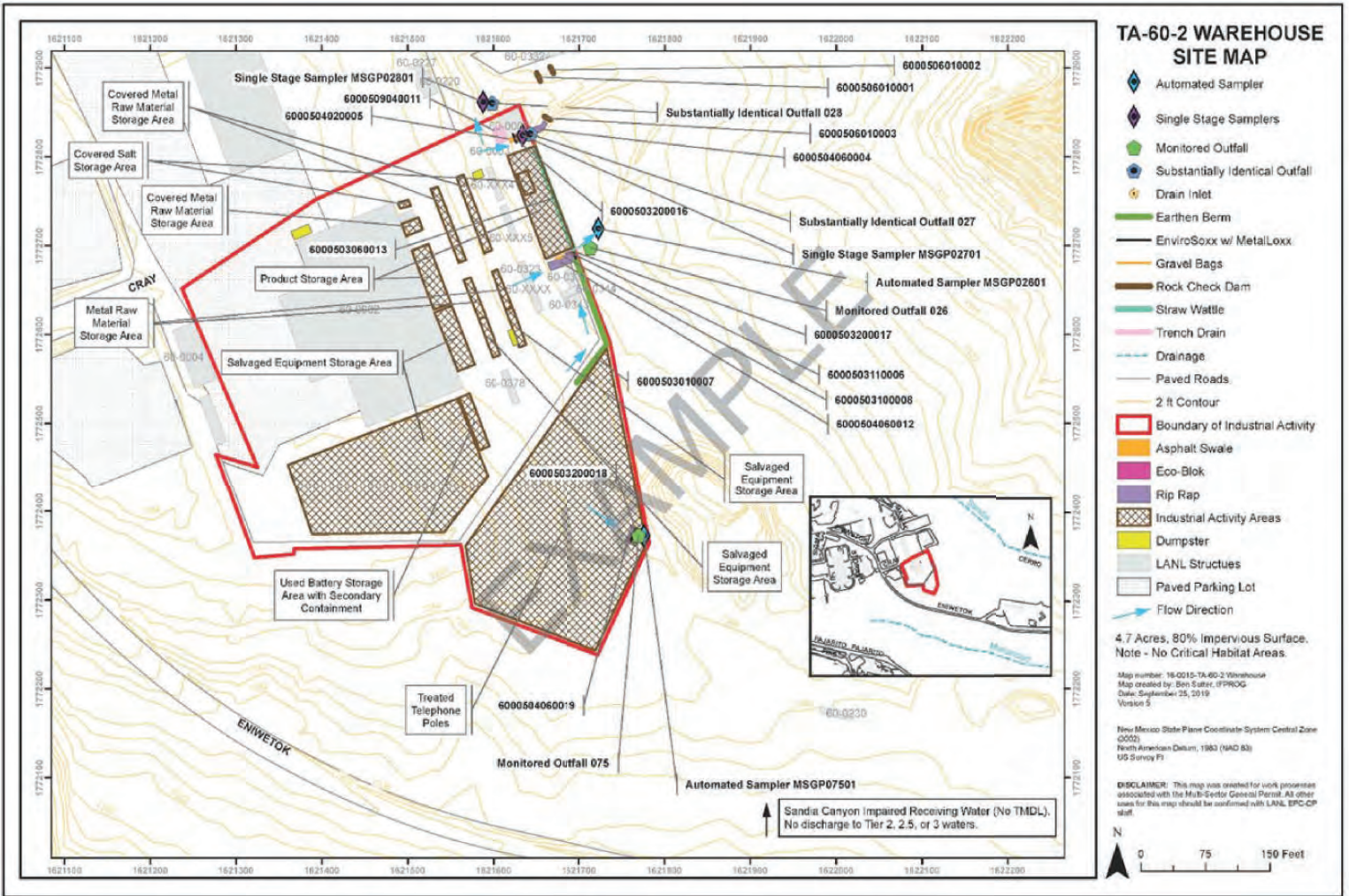
- 💧 At least quarterly
  - Monthly for areas w/ significant activities and materials exposed to stormwater
- 💧 At least once a calendar year during stormwater discharge
- 💧 Once a calendar year for sites in No Exposure or Inactive status



# Where Do I Find Information to Help Me Perform an RFI?



Psst! Look at the SWPPP



# What Does An RFI Cover?

- Weather at time of inspection
- Discharges or evidence of discharges from the site
  - New discharges?
  - Evidence of, or potential for pollutants to enter the drainage system?



- Monitored outfalls and Substantially Identical Outfalls (SIOs)
  - Evidence of erosion?
  - Evidence of pollutants in discharge?
  - Flow dissipation devices operating effectively?





# What Does An RFI Cover?

- Stormwater Control Measures
  - Are they operating effectively?
  - Are then in need of maintenance, repair, replacement?





# What Does An RFI Cover?

- Industrial areas/activities exposed to stormwater
  - Includes the site's MSGP Sector of Industrial Activity (e.g. TA-60-2 Warehouse is under Sector P: Land Transportation and Warehousing)
- Additional activities you must inspect for
  - Dust generation
  - Offsite tracking
  - Housekeeping
  - Leaks/spills
- Non-compliances not identified in the above sections
- Additional Control Measures
- Signed Certification Statement

# Common Issues Found During Inspection



## Los Alamos National Laboratory

Work Order MSGP-RI-64155

MSGP Routine Inspection  
Printed 3/2/2020 - 11:02 AM

### Maintenance Details

**Requested:** 2/28/2020 12:04:29 PM  
**Procedure:** MSGP Routine Facility Inspection (EPC-CP-Form-1020.2)  
**Last PM:** 1/23/2020  
**Project:** Routine Facility Inspections March 2020 (P-MSGP-RI-5427)  
**Reason:** 2020 March Inspections

**Target:** 3/31/2020  
**Priority/Type:** Normal / Inspection  
**Department:** Utilities and Infrastructure

**MSGP Program**  
RG 121.9  
TA-60-2 Warehouse

**Contact:**  
**Phone:**

### Tasks

#	Description	Meas.	No	N/A	Yes
<b>Weather Information</b>					
20	Describe the weather at time of inspection and document the temperature (F).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Within the Facility Boundary</b>					
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Outfall Inspection (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>					
90	Monitored Outfall [026] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	Monitored Outfall [026] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
110	Monitored Outfall [026] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Monitored Outfall [026] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Monitored Outfall [075] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Monitored Outfall [075] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Monitored Outfall [075] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170	Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
180	Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
190	Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
200	Substantially Identical Outfall [027] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
210	Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
220	Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230	Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
240	Substantially Identical Outfall [028] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Control Measures (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>					

- This is an example of a printed inspection form.
- Forms may be completed electronically through software MC Express.
- Instructions for performing inspection and filling out form are in procedure EPC-CP-QP-023, *MSGP Routine Facility Inspections*

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		Meas.	No	N/A	Yes
260	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
270	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
290	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
310	Rip Rap [6000504060019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
320	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
330	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
340	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
350	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
360	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
370	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
380	EnviroSoxx w/ MetalLoxx [6000503200016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
390	EnviroSoxx w/ MetalLoxx [6000503200017] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
400	EnviroSoxx w/ MetalLoxx [6000503200018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Area/Activity exposed to stormwater</b> (Identify needed maintenance or a description of corrective actions in relevant task comment).					
420	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
430	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
440	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
450	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
460	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
470	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
480	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
490	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
500	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
510	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
520	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
530	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
540	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
550	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
560	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
570	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If you need more space, write "See Labor Report" and continue notes at end of form

Elk ate wattle. Need to replace.

If your site does not have an activity, check N/A



	Meas.	No	N/A	Yes
580 Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Non-Compliance</b>				
600 Free of incidents of observed non-compliance not already identified above? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Additional Control Measures</b>				
620 Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Admin, Jane	2/20/2020				

#### Labor Report

Completed: \_\_\_\_\_

Report: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature / Name \_\_\_\_\_ Date \_\_\_\_\_ Signature / Name \_\_\_\_\_ Date \_\_\_\_\_

I confirm the information as recorded is true, accurate and complete.

The inspector prints and signs his/her name

Add the date and time the inspection was performed

#### 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.II.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Have the Cert Statement signed no more than 14 days after completing the inspection

# What Do I Do When I Complete the RFI?

- 💧 Check your work (especially the check boxes)
- 💧 Sign it.....and date/time it
- 💧 Sign the Certification Statement (w/in 14 days of inspection)
- 💧 Give a copy to the MSGP Program (w/in 14 days of inspection)
- 💧 Add it to your SWPPP
- 💧 Enter any issues\* (corrective actions) into the Corrective Action Response database

\*Anyone can identify potential stormwater issue, not just DEPs or MSGP Program staff





Call the MSGP Program Team when you have questions







# MSGP Corrective Actions

# Agenda

- Definition of corrective action
- Conditions requiring corrective action
- Immediate corrective action
- Subsequent corrective action
- 45-day extension
- Corrective action documentation

# Corrective Action

Definition: Any action taken, or required to be taken, to

- (1) repair, modify, or replace any stormwater control used at the site;
- (2) clean up and dispose of spills, releases, or other deposits found on the site;
- (3) satisfy any permit condition or SWPPP requirement

# Conditions Requiring Corrective Action

- Unauthorized release or discharge
- Impaired water quality standards are exceeded (e.g., control measures are inadequately managing stormwater discharges)
- The average of four quarterly sampling results exceeds an applicable benchmark
- Effluent limitation guidelines are exceeded at the Asphalt Batch Plant (Sector D)
- Control measures are not being properly operated and maintained



# Conditions Requiring Corrective Action (cont.)

- Visual assessment that shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam)
- A regulator during an inspection determines control modification is necessary to meet non-numeric effluent limits
- Facility operations change resulting in an increase in the quantities of pollutants discharged
- Failure to meet any permit condition or those specified in the site specific SWPPP

# Conditions Requiring Corrective Action



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# Conditions Requiring Corrective Action



# Immediate Corrective Action

- Shall Immediately act upon identification of an issue
  - Immediately is the same day a condition is found
  - Solely calling or emailing personnel requesting action is not considered to be an immediate response
  - Minimize or prevent the discharge of pollutants until a permanent solution is installed (e.g., absorbents, micro blaze, gravel bags)



## Immediate Corrective Action (cont.)

- Clean up all contaminated surfaces to prevent pollutant discharge during subsequent storm events
- Designated staff must be trained and available to provide immediate support
- Basic BMPs and cleanup materials must be readily available on site
- If found after 3:00 pm, action must be taken the next workday

# Subsequent Corrective Action

- For minor conditions, immediate action is often sufficient, and no additional action is necessary
- An FSR may be required to initiate a follow up action or permanent solution after the immediate action is completed (e.g., procurement and installation of a new stormwater control measure or SCM)
- 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
- Any corrective action resulting in a change to a SCM or procedure documented in the SWPPP will require SWPPP modification within 14 days of completing the corrective action

## Subsequent Corrective Action (cont.)

- If finalization of CA is infeasible within the 14-day timeline then:
  - Document reasoning in database (e.g., delays in procuring industrial stormwater controls, installation of enclosures, etc.)
  - Provide a schedule for completion of corrective action in database
  - If the completion of a corrective action is anticipated to take more than 45 days from the time of discovery, EPA must be provided a notification of the intention to exceed, rational for the extension and a completion date
  - These time intervals are not grace periods, but are schedules for documenting findings and for making repairs and improvements
  - The permit does not allow corrective actions to remain open indefinitely

## 45 Day Extension

- If a CA is expected to exceed the 45-day timeframe the DEP shall provide EPC-CP the following information:
  - Rationale for an extension (e.g. an engineered design and installation of an engineered control)
  - A description of the condition requiring corrective action along with a summary of the preliminary steps that have been taken to complete the corrective action
  - A realistic completion date along with a realistic and detailed schedule that includes all outstanding steps required to complete the corrective action
- EPC-CP MSGP staff will prepare and submit to EPA the 45-day exceedance based on the information above



# Corrective Action Documentation Recap

- Within 24 hours of discovery enter a description of the condition requiring corrective action and the date the condition was identified in the CAR database
- Document immediate actions taken to minimize or prevent the discharge of pollutants
- Document dates when each corrective action was initiated, completed, or is expected to be completed
- If the corrective action cannot be completed within 14-days, provide a schedule and justification why it is infeasible to complete the necessary installation

# Corrective Action Documentation Recap (cont.)

- Spill documentation must describe:
  - Material, location, amount, date/time and the cause of the spill
  - Leaks, spills, or other releases that resulted in discharges of pollutants to waters of the U.S
  - Response actions, date/time cleanup was completed, notifications, staff involved, measures implemented to prevent reoccurrence

# Additional Implementation Measures (AIM)

- EPA proposed revisions to the 2015 MSGP's provisions regarding benchmark monitoring exceedances
- There are three AIM levels: AIM Tier 1, Tier 2, and Tier 3
- Operators will be required to respond to different AIM levels with increasingly robust control measures depending on the nature and magnitude of the benchmark threshold exceedance

**2018 SWPPP Training Roster – TA-60-2 Salvage & Warehouse 12/17/18**

[illegible]



## 2018 Annual SWPPP Training – TA-60-2 Salvage & Warehouse

- Review 2017 training presentation (new employees to the SWPPP, if applicable)
- **New BMPs:** Angular rock placed at main outfall (026). New wattle behind east canopy at fenceline.
- **Review of CARs for the year:**
  - ✚ 4/26/18: Trash is along fenceline - primarily at the eastern and northern areas of the site. Informed facility personnel and called Roads & Grounds to request clean-up. R&G needs a work order from the facility in order to perform work. Work was completed 4/27/18.
  - ✚ 6/28/18: Housekeeping needed throughout site - primarily along fencelines and at outfall areas. Facility will schedule personnel to perform housekeeping. Work completed 6/29/18 by COB.
  - ✚ 8/30/18: Tarps are torn at metal racks and stantion joint metal storage. Tarps were replaced 8/31/18.
  - ✚ 8/30/18: There was a small patch of oil on the soil at the SE corner of the yard where equipment had previously been stored. It was unsure if it had been Microblazed already. The area was re-microblazed on the same day.
  - ✚ 8/30/18: Sediment and gravel is being transported through the east fenceline from underneath the canopy. \*9/5/18: DEP evaluated the area with R&G staff. The roof to the canopy has recently been repaired but had previously leaked, possibly causing the issue. A wattle will be installed at the fenceline and further BMPs may be needed to divert run-on if stormwater is still being transported through the canopy structure. Corrective action (wattle installed) was completed on 9/7/18.
  - ✚ 11/30/18: Trash is present throughout site and at fencelines and outfalls areas. Housekeeping is needed throughout site and fenceline areas. Reported to facility personnel at the time of inspection. Housekeeping to be done 11/30/18.
- **Water Quality Exceedances:**
  - ✚ 7/19/18: Discharge from outfall 075 at the TA-60-2 Warehouse exceeded the New Mexico water quality standard for total recoverable Aluminum. The concentration of total recoverable Aluminum discharged during the storm event on 05/21/2018 was 7590 ug/L and the water quality standard is 681 ug/L. Facility personnel shall evaluate potential pollutant sources of total recoverable Aluminum and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. If finalization of corrective action(s) exceeds 14 days, documentation of why it is infeasible to complete the corrective action within the 14 day timeframe must be provided along with a schedule for completion. SWPPP modifications required as a result of this exceedance, if needed, must be implemented within 14 days of completing corrective action work. \*Site outfall was evaluated on 7/19. The drainage area around the sampler was cleaned out on 7/23/18.
  - ✚ 7/19/18: Discharge from outfall 075 at the TA-60-2 Warehouse exceeded the New Mexico water quality standard for dissolved Copper. The concentration of dissolved

Copper discharged during the storm event on 05/21/2018 was 99.9 ug/L and the water quality standard is 6 ug/L. Facility personnel shall evaluate potential pollutant sources of dissolved Copper and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. If finalization of corrective action(s) exceeds 14 days, documentation of why it is infeasible to complete the corrective action within the 14 day timeframe must be provided along with a schedule for completion. SWPPP modifications required as a result of this exceedance, if needed, must be implemented within 14 days of completing corrective action work. \*Site outfall was evaluated on 7/19. The drainage area around the sampler was cleaned out on 7/23/18.

7/19/18: Discharge from outfall 075 at the TA-60-2 Warehouse exceeded the New Mexico water quality standard for Adjusted Gross Alpha. The concentration of Adjusted Gross Alpha discharged during the storm event on 05/21/2018 was 90.7 pCi/L and the water quality standard is 15 pCi/L. Facility personnel shall evaluate potential pollutant sources of Adjusted Gross Alpha and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. If finalization of corrective action(s) exceeds 14 days, documentation of why it is infeasible to complete the corrective action within the 14 day timeframe must be provided along with a schedule for completion. SWPPP modifications required as a result of this exceedance, if needed, must be implemented within 14 days of completing corrective action work. \*Site outfall was evaluated on 7/19. The drainage area around the sampler was cleaned out on 7/23/18.

- **Review of Spills:**

3/7/18: A lead/battery being moved on a pallet became cracked and released ~1/2 gallon of battery acid on the asphalt lot. The site was remediated by absorbing the residual fluid, neutralizing the impacted area and absorbing all remaining free liquids from the site. The spill did not reach a storm drain or impact a SwMU or AOC and is not reportable to NMED. Spill was remediated the same day. A spill report was created on 3/8/18 and will be kept on file with the facility SWPPP.

7/26/18: A hydraulic press had leaked a small amount of oil on the concrete storage area. Area area was cleaned with absorbent and Microblaze on the same day.

- **SWPPP updates for 2019:**

Due ~2/1/19

- **General Discussion/Issues:**

Trash, tarps and oil leaks are primary issues.

Annual SWPPP inspection with EPC scheduled for Tues., 12/19 pm.

Issues with Outfall 075. May need to install BMPs in 2019.



# **Storm Water Multi-Sector General Permit (MSGP) for Industrial Facilities**

TA-60-2 Salvage/Warehouse

2017-2018 SWPPP Training

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## TA-60-2 SWPPP- MSGP Permit

- The MSGP is a National Pollutant Discharge Elimination System (NPDES) Permit associated with the Clean Water Act (CWA) of 1973
  - Regulates storm water discharges from industrial facilities/activities
  - Objective is to minimize pollutants to surface waters
  - Requires implementation of a Stormwater Pollution Prevention Plan (SWPPP)
  - A new permit (with no.) is issued approx. every 5 years
    - 2015 MSGP #NMR053915 (LANS)
    - Link to 2015 MSGP Permit:  
[https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015\\_finalpermit.pdf](https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015_finalpermit.pdf)

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# TA-60-2 SWPPP – LANL Facilities



## ■ LANL MSGP Regulated Facilities:

- **Metals Fab Shop** – TA-03-38: Sector AA (Fabricated Metal Products)
- **Carpenter Shop** – TA-03-38: Sector A (Timber Products)
- **Asphalt Batch Plant** – TA-60-233: Sector D (Asphalt Paving)
- **Metal Recycling Facility (MRF)** – TA-60-311: Sector N (Scrap Recycling)
- **Roads & Grounds** – TA-60-250: Sector P (Land Transportation/Warehousing)
- **Power Plant** – TA-03-1790: Sector O (Steam Electric Generating)
- **Heavy Equipment** – TA-60-01: Sector P (Land Transportation/Warehousing)
- **Salvage Yard** – TA-60-02: Sector P (Land Transportation/Warehousing)
- **TA-3-39 & 102** – Sector AA (Fabricated Metal Products)
- **Sigma Complex Foundry** – TA-03-66: Sector AA & F (Fabricated & Primary Metals)
- **TA-54** - TA-54-Area G, Area L & Rant: Sector K (Hazardous Waste TSDF)
- **Maint. Facility West** – TA-54-Area L: Sector P (Land Transportation/Warehousing)

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## TA-60-2 SWPPP - Team Members

- TA-60-2 Salvage/Warehouse SWPPP Team:
  - Jillian Burgin, Deployed Environmental Professional (DEP)
  - Russell Stone, ESH Manager DSESH-UIS
  - Holly Wheeler, MSGP Compliance Lead, EPC-CP
  - See Facility Managers
- Facility Managers/FOD
  - Steve Vandebusch, Acquisitions Service Manager, ASM-WSO
  - Earl Valdez, Excess Manager, ASM-WSO
  - Jeff Wilcox, Property Manager, ASM-WSO
  - Allen Joe Romero, Building Manager, MSS-UI
  - Andrew Erickson, UI FOD

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## TA-60-2 SWPPP – Control Measures (BMPs)

- Berming: South/SE boundary of the facility: Reduces stormwater run-on to the site from adjacent areas. Directs stormwater to outfalls. Prevents erosion.
- Flow dissipation to outfalls: gravel bags, wattes, ecobloks. Slows down run-off and reduce sedimentation. Mettallox wattles filters out metal residuals.



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## TA-60-2 SWPPP – Control Measures (BMPs)

- Covered Metal/Material Storage: minimizes storm water contact with pollutants. Prevents releases to the environment. Reduces exceedances in monitoring.



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## TA-60-2 SWPPP – Control Measures (BMPs)

- Good House-Keeping Practices: Covered and enclosed trash bins minimize debris on site. Sweeping of parking lots can remove accumulated dust and reduces pollutants.
- YOU can help reduce trash as well: keep truck beds clean, properly dispose of food trash and cigarette butts, keep dumpsters closed. Recycle water bottles, cans, plastic bags, etc..



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## TA-60-2 SWPPP - Control Measures (BMPs)

### ■ Spill Protection:

- Secondary containment units provide spill protection for oil-filled equipment, tanks and drums as well as chemicals and waste drums/containers.



**Micro-Blaze®**  
Emergency Liquid Spill Control



- Spill kits, clean-up materials (such as dry absorbent, Microblaze and pig mats) can be used to mitigate spills and prevent further releases to the environment.

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# TA-60-2 SWPPP - Spill Reporting

Know your spill Kit locations.

Report spills immediately to your supervisor.

Additional contacts are provided in the LOG-MSS Guidance



Los Alamos National Laboratory - LOG-MSS Guidance

 Do you know who to call in the event of a spill/leak? 

 **Report a Spill**

**SEO (EM&R):**  
**667-6211**

**EPC-CP:**  
**667-0666**  
or Spill Pager  
**664-7722**

**Roads & Grounds:**  
**667-6111**

**WMCs Spill Pager:**  
**664-5864**

**LOG-MSS DEP:**  
**665-1893**



**Spills** and leaks from vehicles, equipment and laboratory operations can accidentally occur. Oil, fuel, hydraulic fluids and other chemicals, once spilled or leaked to the environment are pollutants that require immediate clean-up and spill reporting. It is important to prevent pollutants from entering into a watercourse or storm drain and from coming into contact with storm water. If you have the ability and materials to contain a spill (i.e. spill kit—absorbent pads, booms, etc.) you may do so in order to prevent migration of the spilled material until additional help arrives. You are still required to report the spill and should be aware of who to contact.

The appropriate spill contact should be listed in your Integrated Work Document (IWD). This can vary from your PIC to the Security & Emergency Operations Center (SEO), also known as EM&R, to your site access control office. The name and contact information for your Waste Management Coordinator (WMC) should also be listed in the IWD.

When in doubt, contact the SEO. They will respond, assess the situation, determine further actions required and will contact appropriate personnel. The Environmental Protection & Compliance (EPC-CP) group will also be contacted. EPC-CP will ensure a Spill Report is completed to document the spill. If the pollutant has reached a watercourse or storm drain, EPC-CP is responsible for reporting the spill to the state environment department - NMED and EPA.

A WMC will ensure that waste from a spill clean-up is properly managed and disposed. The LOG-MSS or FOD Deployed Environmental Professional (DEP) can help coordinate spill response and clean-up activities and can complete the Spill Report form.

*-Jillian Burgin, Deployed Environmental Professional for LOG-MSS*

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## TA-60-2 SWPPP - Sampler & Outfalls

### ■ Sampler(s)

- Automated collection during storm events
- Monitoring for pollutants
  - Benchmark (sector specific limits)
  - Impaired Waters (receiving water)
    - **Sandia Canyon**

### ■ Storm Drains (Outfalls)

- Sample/discharge points (automated & visual)
- Evaluated during inspections
- Each numbered for site map
- **2 Monitored outfalls on site: Outfall 026 & 075**



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## TA-60-2 SWPPP – Sampling (Monitoring)

*Sampling parameters for TA-60-2*

Monitoring Type	Location	Parameters		Numeric Limitations	Schedule
Benchmark	Not Required for Sector P				
Impaired Waters	<b>Sampler: MSGP02601</b> Outfall #026 Sandia Canyon	Aluminum	0.681 mg/L	None	Annual
		Gross Alpha, adjusted	15 pCi/L		
		Copper	0.006 mg/L		
	<b>Sampler: MSGP07501</b> Outfall #075 Sandia Canyon	Thallium, dissolved	0.47 ug/L		
		PCB in Water Column	0.00064 ug/L		

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# TA-60-2 SWPPP - Inspections



- **Monthly Routine Inspections**
  - Performed by DEP and facility rep, annual with EPC-CP
    - Check for non-compliance issues/identify corrective actions
      - (i.e. housekeeping, uncovered materials, spills/pollutant discharge, BMP integrity)
- **Quarterly Visual Inspections**
  - Performed during a storm event each quarter at each outfall (if possible)
    - Storm water sample collected in a clean, clear glass
    - Storm water sample evaluated for potential pollutants
      - (i.e. odor, oil sheen, suspended particles)
    - Additional BMPs may be required if pollutants are evident
- **Additional Reporting Requirements**
  - Annual reporting to EPA for corrective action status
  - Quarterly Discharge Monitoring Report (DMR) for sample results
  - Spill reporting to EPC-CP and potentially NMED if reportable

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# TA-60-2 SWPPP - Corrective Actions



## ■ MSGP Corrective Action Process

- Once identified – immediate reporting to appropriate facility personnel
- Entered into CARs database/main-con. for EPC-CP reporting/tracking
- Specific deadlines for completion:
  - Same day or next day if identified late in the day or after regular business hours (quick fixes)
  - 14 days (order parts, schedule labor) >must provide schedule to EPC-CP
  - 45 days maximum (temporary BMPs required in the meantime)
  - >45 days: Report to EPC-CP for EPA is required (schedule must be provided for completion). EPA must approve schedule.
- FSRs with cost codes may be required
- Anyone can report – not just inspector or EPC-CP
- Exceedances from sampling can trigger corrective actions, applicable to the same deadlines as noted above.

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Slide 13

# TA-60-2 SWPPP – Documentation



- **Required Documentation for SWPP Plan**
  - **Site Maps**
    - Facility Specific
    - Receiving Waters
    - Endangered Species
  - **Completed Inspection Forms & Templates**
  - **Annual Reporting Data**
  - **Notice of Intent (NOI) to EPA**
  - **Non-Storm Water Discharge Certification**
  - **Spill Tracking Table**
  - **Amendment Log**
  - **Sampling Results**
  - **Training Records**
  - **Critical Habitat Documentation/Historic Properties/NEPA**
  - **Procedures Referenced in the SWPPP**

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## TA-60-2 SWPPP Location & Contacts

- A hard copy of the SWPP Plan is kept in DEP office and/or at facility.
- The SWPP Plan is updated annually and can be found online on the electronic public reading room at:
  - <http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-17-20930>

- **Environmental Contacts:**

- Jillian Burgin, DESHS-UIS, DEP: 665-1893
- Leonard Sandoval, DESHS-UIS, DEP: 231-1235
- Russell Stone, DESHS-UIS, ESH Mgr.: 606-0017
  - Holly Wheeler, EPC-CP: 667-1312

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**ATTACHMENT 12: MSGP (OR ACTIVE URL)**

A copy of the 2015 MSGP is kept on file with the SWPPP hard copy.

The active URL to access the permit is:

<https://www.epa.gov/npdes/final-2015-msgp-documents>

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

LA-UR-17-29454

*Approved for public release;  
distribution is unlimited.*

October 2017

# Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory





Cover photo: Mexican Spotted Owls at Los Alamos National Laboratory

Prepared by: Environmental Protection and Compliance Division  
Resources Management Team  
Los Alamos National Laboratory

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

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## ACRONYMS AND TERMS

AEI	area of environmental interest
Bd	Batrachochytrium dendrobatidis (Chytrid Fungus)
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
Field Office	U.S. Department of Energy Los Alamos Field Office
FR	Federal Register
GIS	geographic information system
HMP	Threatened and Endangered Species Habitat Management Plan
HVAC	heating, ventilation, and air conditioning
LANL	Los Alamos National Laboratory
LANS	Los Alamos National Security, LLC
NEPA	National Environmental Policy Act of 1969
PCBs	polychlorinated biphenyls
TNT	trinitrotoluene(2,4,6-)
USFWS	U.S. Fish and Wildlife Service

## **I. THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN GENERAL OVERVIEW**

### **1.0 Introduction**

Los Alamos National Laboratory's (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 2017 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 with 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 trailii 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 50 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 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 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). AEIs 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 causing

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-m (49-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, such as the firing sites.

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 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 current 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 is allowed in buffer areas. Under the guidelines of this HMP, individual development projects are limited to 2 ha (5 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). New development projects in AEI buffer areas must be reported to Los Alamos National Security, LLC (LANS) biologists for tracking (<http://int.lanl.gov/environment/bio/controls/index.shtml>).

### **3.3 Emergency Actions**

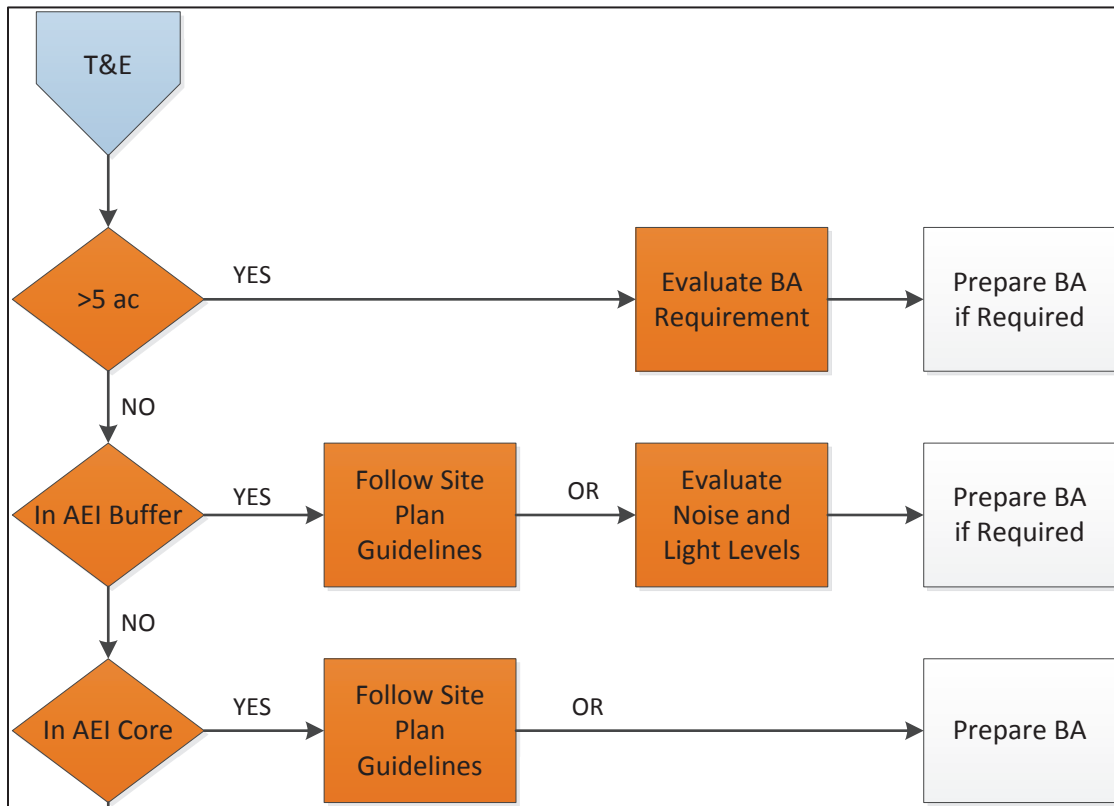
Managers may activate emergency actions if safety and/or property is immediately threatened by something occurring within an AEI (for example, wildfire, water line breakage, etc.). Contact a LANS biologist (<http://int.lanl.gov/environment/bio/controls/index.shtml>), the Environmental Stewardship Group (505-665-8855), or the DOE Los Alamos Field Office (Field Office; 505-667-6819) as soon as possible. If the emergency occurs outside of regular business hours, contact

the Emergency Management Office (505-667-6211); this office will then communicate with the appropriate LANL and DOE 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 1 illustrates the process for utilizing site plans. If activities follow approved guidance, there is no requirement for additional ESA regulatory compliance. However, additional National Environmental Policy Act (NEPA), cultural resources, wetlands, or other regulatory compliance actions may be required.



**Figure 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. 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 area 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 Program Description 400 (LANL 2016) and allows managers to identify the requirements within their project area. Deployed environmental professionals and core LANS 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. 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. Contacts can be found at <http://int.lanl.gov/environment/compliance/ier/index.shtml>.

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 If an Activity Does Not Meet Site Plan Guidelines**

If a project reviewer determines that an activity or project cannot meet the guidelines in applicable site plans, LANS biologists evaluate that activity individually for compliance with the ESA. Results of the evaluation of potential impacts allow LANS biologists to make recommendations to the DOE Field Office Biological Resources Program Manager regarding the need for USFWS consultation. An evaluation may result in 1) a DOE Field Office determination that there is no effect and the activity can proceed, 2) a DOE Field Office suggestion for modifications of the action to avoid adverse effects so that it can proceed, or 3) a DOE Field Office 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 a few months with an additional 2 to 12 months for DOE 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 resulting from long-term drought and fire effects (USFWS consultation number 02ENNM00-2017-I-0255).

## **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 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 53181).

### **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 may 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 nesting in canyons consists primarily of woodrats (*Neotoma* spp.) and deer mice (*Peromyscus* spp.) with lesser amounts of rabbits, birds, reptiles, and arthropods (Willey 2013). The relative abundance of prey types in Mexican Spotted Owl pellets collected at LANL are listed in Table A-1 in the appendix. Ganey and Balda (1994) found 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 had recent agricultural or forest product extraction land uses. Therefore, Mexican Spotted Owls are generally 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 containing paved or dirt roads in the canyon bottoms have not been occupied at LANL (Hathcock et al. 2010).

### **2.2.2 Ecological Risk**

There is no specific information 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).

LANS subject matter experts completed three ecological risk assessments that included the Mexican Spotted Owl between 1997 and 2009. 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 is expected to Mexican Spotted Owls from chemicals of potential concern (Gallegos et al. 1997; Gonzales et al. 2004; Gonzales et al. 2009).

### **2.2.3 Disturbance**

#### **2.2.3.1 Pedestrians and Vehicles**

Based on work with other raptors, LANS 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 to 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 may 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. LANS biologists found that AEIs are occupied less often if there is recreational access into a canyon (Hathcock et al. 2010).

#### **2.2.3.2 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.

### 2.2.3.3 Explosives

There is currently no specific information 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 decibel (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-g (5.89-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-kg (44-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 decibel [dB(A)]<sup>1</sup> to a range between 64 and 71 dB(A) during shots at a distance of 1.8 km (1.1 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). LANS 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). LANS 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). This is likely due to the strict access control in explosives areas that limit human activity and development in the canyon bottoms.

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<sup>1</sup> Sound can be measured as decibels (dB), C-weighted dB [dB(C)], or A-weighted dB [dB(A)]. The dB(A) measurement best resembles the response of the human ear by filtering out lower and higher frequency sound not normally heard by the human ear.

#### 2.2.3.4 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 sediment control features such as berms and small rock check dams to be installed at various sites with stormwater runoff; these are sometimes installed in protected habitat. LANS biologists conducted a study of noise levels in canyons and found that the primary sources of noise exceeding 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, LANS 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 am) 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).

LANS 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 43–81 dB(C)]. The average background noise in the canyon bottom was 62.3 dB(C) [with a range of 54–78 dB(C)]. The average background noise at the bottom of the north-facing slope was 53.8 dB(C) [with a range of 48–64 dB(C)]. Measurements were taken mid-day.

LANS 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).

LANS 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.

LANS 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.

LANS biologists took sound level measurements around the LANL Biosafety Level 3 laboratory with the heating, ventilation, and air conditioning (HVAC) system on and with it off (Hansen 2009). The area to the north of the Biosafety Level 3 laboratory 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.

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).

#### **2.2.3.5 Artificially Produced Light**

There is no information 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 off-site 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 fc.

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 may 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. LANS biologists compared the results from the Johnson (1998) model to a different model identifying 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 over five contiguous 30 × 30 m (97 × 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.

An updated Mexican Spotted Owl habitat model was developed and refined for application on LANL property following the Cerro Grande wildfire (Hathcock and Haarmann 2008). This model incorporated finer-scale vegetation characteristics into the Mexican Spotted Owl habitat quality assessment. This model 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 Part I, Section 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 or not 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 or not 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 may 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 causing habitat alterations are restricted in all AEIs, disturbance activities are restricted only in occupied AEIs. The Activity Table (Table 1, Section 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 LANS biologist to find out the current occupancy status of an AEI (<http://int.lanl.gov/environment/bio/controls/index.shtml>).

### **4.3 Introduction to AEI Management Guidelines**

Sections 4.4 and 4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. Section 4.4 describes what and where habitat alterations are allowed under the guidelines of this site plan. Section 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 only provides 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 4.6 describes management practices that should be applied when working or considering work in an AEI. LANS biologists are available to answer questions and provide advice

(<http://int.lanl.gov/environment/bio/controls/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 one year. For physical disturbances, in general, any activity that can be accomplished by one person with a hand tool is generally 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 a 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  $\geq 6$  dB(A) during any portion of the 24-hour day, or it increases average light levels by  $\geq 0.05$  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  $<22$  cm (9 in) diameter at breast height, treatment of fuels, and prescribed and natural prescribed fires are allowed. Exceptions allowing 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 not meeting 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, LANS 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 over 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). Fuels management activities that are allowable in core areas must be reported to LANS biologists for tracking (<http://int.lanl.gov/environment/bio/controls/index.shtml>).

#### **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 (Trujillo and Racine 1995). New utility lines and utility lines requiring 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 1, Section 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 2.2.3). Projects in the buffer area over 2 ha (5 ac) in size will require individual ESA compliance review.

Habitat alterations in a buffer area other than the fuels management and utility corridor maintenance described above must be reported to LANS biologists for tracking (<http://int.lanl.gov/environment/bio/controls/index.shtml>). There is a cumulative maximum area that can 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

LANS 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). LANS 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. LANS 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 1, Section 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 one 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 one 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 one 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  $\leq 0.05$  fc and a duration of one 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 one 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. LANS 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 a month from March 1 and August 31. There are no restrictions on daytime explosives testing between 400 and 800 m (1,312 to 2,624 ft). There are no restrictions between September 1 and February 28 or in unoccupied habitat. Explosives detonation adjacent to AEIs that have not previously been recorded by LANS 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 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 LANS biologists to find out occupancy status of AEIs and what locations are within 400 m (1,312 ft) of nest sites (<http://int.lanl.gov/environment/bio/controls/index.shtml>).

**Table 1. Restrictions on Activities in Undeveloped Occupied Mexican Spotted Owl AEIs**

	Levels of Impact	Core	Buffer
<i>People</i>			
	Low	No Restrictions*	No Restrictions
	Medium	March 1 to August 31	No Restrictions
	High	March 1 to August 31	No Restrictions
<i>Vehicles</i>			
	Low	No Restrictions	No Restrictions
	Medium	March 1 to August 31	No Restrictions
	High	March 1 to August 31	No Restrictions
<i>Aircraft</i>			
	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
<i>Other Light Production</i>			
	Low	March 1 to August 31	No Restrictions**
	Medium	March 1 to August 31	No Restrictions**
	High	March 1 to August 31	No Restrictions**
<i>Other Noise Production</i>			
	Low	March 1 to August 31	No Restrictions**
	Medium	March 1 to August 31	No Restrictions**
	High	March 1 to August 31	No Restrictions**
<i>Explosives Detonation (see text in Section 4.5.1)</i>			

\* 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 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 leading into AEIs labeling them as restricted access areas and provide 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 Levels of Development in AEI Core and Buffers

### 5.1 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.

***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. 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 (1295 ac) of buffer habitat. Of that, 21 ha (52 ac) of the current core is developed and 71 ha (176 ac) of the current buffer is developed.

***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. 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, 27 ha (67 ac) of the current core is developed and 89 ha (220 ac) of the current buffer is developed.

**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. 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, 64 ha (158 ac) of the current core is developed and 129 ha (319 ac) of the current buffer is developed.

**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, LANS biologists recommended only an additional 38.1 ha (94.1 ac) of the buffer be developed 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, 44 ha (110 ac) of the current core is developed and 83 ha (206 ac) of the current buffer is developed.

**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, LANS biologists recommended only 64.3 ha (158.8 ac) additional area of buffer be developed 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, 11 ha (29 ac) of the current core is developed and 36 ha (91 ac) of the current buffer is developed.

### **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 one-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 may 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 only nests 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 resulting 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. There has been extensive degradation of the riparian zone along the Rio Grande caused by feral cattle grazing and flood control operations at Cochiti Lake. There are other riparian/wetland areas on LANL property 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.

#### **2.2.2.1 Ecorisk Assessment**

LANS 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 indicates a small potential for impacts from chemicals. The primary chemicals driving 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**

#### **2.2.3.1 Pedestrians and Vehicles**

There is no specific information 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).

#### **2.2.3.2 Aircraft**

There is no specific information 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.

#### **2.2.3.3 Explosives**

There is no specific information 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.

#### **2.2.3.4 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 Part I, Section 2.2.3.

#### **2.2.3.5 Artificially Produced Light**

There is no information 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 off-site 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 Part I, Section 2.3) 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 or not 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 or not an AEI is occupied during a species' period of sensitivity. For Southwestern Willow Flycatchers, LANS biologists are primarily concerned with protecting the birds from disturbance during the breeding season. Because individuals may 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 causing habitat alterations are always restricted, disturbance activities are restricted only in occupied AEIs. The Activity Table (Table 2, Section 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 2 indicate the time period during which the activity is restricted. Contact a LANS biologist to find out the current occupancy status of an AEI (<http://int.lanl.gov/environment/bio/controls/index.shtml>).



### **4.3 Introduction to AEI Management Guidelines**

Sections 4.4 and 4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. The flowchart (see Figure 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 4.4) describes what and where habitat alterations are allowed under the guidelines of this site plan. The section and table on allowable activities (Section 4.5 and Table 2) 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 only provides guidelines for the Southwestern Willow Flycatcher AEI. If an activity is desired in an area with overlapping AEIs, all applicable site plans must be consulted. Section 4.6 describes management practices that should be applied when working or considering work in an AEI. LANS biologists are available to help interpret site plans and answer questions (<http://int.lanl.gov/environment/bio/controls/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 the alteration lasts for more than one 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 (Trujillo and Racine 1995). New utility lines and utility lines requiring 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 2, Section 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. Habitat alterations in a buffer area other than fuels management activities or utility corridor maintenance must be reported to a LANS biologist for tracking (<http://int.lanl.gov/environment/bio/controls/index.shtml>).

### **4.5 Definition of and Restrictions on Disturbance Activities**

#### **4.5.1 Definition of Disturbance Activities**

LANS 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 there are no explosives testing sites 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 one 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 one 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 one 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 one 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 one 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 2) 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 LANS biologist (<http://int.lanl.gov/environment/bio/controls/index.shtml>).

**Table 2. Restrictions on Activities in Undeveloped Occupied Southwestern Willow Flycatcher AEI**

	Levels of Impact	Core	Buffer
<i>People</i>			
	Low	No Restrictions	No Restrictions
	Medium	May 15 to August 15	No Restrictions
	High	May 15 to September 15	No Restrictions
<i>Vehicles</i>			
	Low	May 15 to September 15	No Restrictions
	Medium	May 15 to September 15	No Restrictions
	High	May 15 to September 15	No Restrictions
<i>Aircraft</i>			
	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
<i>Other Light/Noise Production</i>			
	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**

Since 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. There are two areas in which restrictions on habitat alteration are relaxed.

1. The mesa top of Mesita del Buey. This mesa top can be developed as long as restrictions on impacts to the core area are met.
2. 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. LANS biologists encourage the growth of willow throughout the AEI—even the area along Pajarito Road—to enhance habitat. If, within this area, it is absolutely necessary to remove new willow growth (i.e., to improve visibility for human safety), LANS 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**

The Jemez Mountains Salamander was listed in New Mexico as endangered under the Wildlife Conservation Act of New Mexico in 2006 (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 was 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 Rierner 1950). It is one of two endemic plethodontid salamanders that occur in New Mexico. It occurs 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 consisting 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. There is a secondary paved road (West Road) in the bottom of the canyon that 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 bike. 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 may 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 may 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).

### **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 may occur at LANL. The core habitat consists of sections of north-facing slope that contain the required micro-habitat to

support 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 only selected 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. Since the Jemez Mountains Salamander needs cool moist conditions, an illumination index model would further highlight areas where this habitat type may occur or further reinforce the areas selected by the GIS modeling. The illumination index describes the amount and extent of solar radiation reaching the Earth's surface at a given point. This takes into account the topography that may 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 pm, 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, LANS 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). There have been changes in habitat from fire and extreme drought effects since this landcover map was published. Since 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 LANS biologists walking down all of the modeled habitat polygons to look for the presence of indicator 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 LANS 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 of 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, since 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. There are two noncontiguous areas of habitat 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 or not 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 LANS 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 may 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 LANS 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 LANS biologists to ensure that there are no impacts to the core habitat.

#### **4.5 Emergency Actions**

If safety and/or property are immediately threatened by something occurring within an AEI (for example, wildfire, water line breakage, etc.) please contact a LANS biologist (505-665-3366) as soon as possible. If the emergency occurs outside of regular business hours, contact the Emergency Management Office (505-667-6211). This office will then communicate with the appropriate LANS 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 only provides guidelines for the Jemez Mountains Salamander 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. LANS biologists are available to help interpret site plans and answer questions (<http://int.lanl.gov/environment/bio/controls/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 LANS 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 LANS 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 on-site to aid in soil moisture retention. Thinning activities should not occur during the rainy season between July to October (or when freezing temperatures begin, whichever comes first) when the Jemez Mountains Salamander is found on the surface.

In buffer areas, thinning of trees can occur to the current LANL-approved prescription level (LAAO 2000). LANS biologists are available to provide guidance and mark trees for thinning (<http://int.lanl.gov/environment/bio/controls/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 (Hathcock 2013). This level is approved in all areas of an AEI. New utility lines and utility lines requiring 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 LANS biologists to ensure that there are no impacts to core habitat.

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## APPENDIX

**Table A-1. The Percentage of each Food Type Found in Mexican Spotted Owl Food Remains at LANL**

Species	Relative Abundance
<i>Neotoma</i> spp.	26.22
<i>Peromyscus</i> spp.	10.22
<i>Microtus</i> 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 ftc for Mexican Spotted Owl Site Plan**

		Distance from Source			
	Source (street light)	5 m	10 m	15 m	20 m
ftc	3.70	2.28	1.20	0.62	0.32

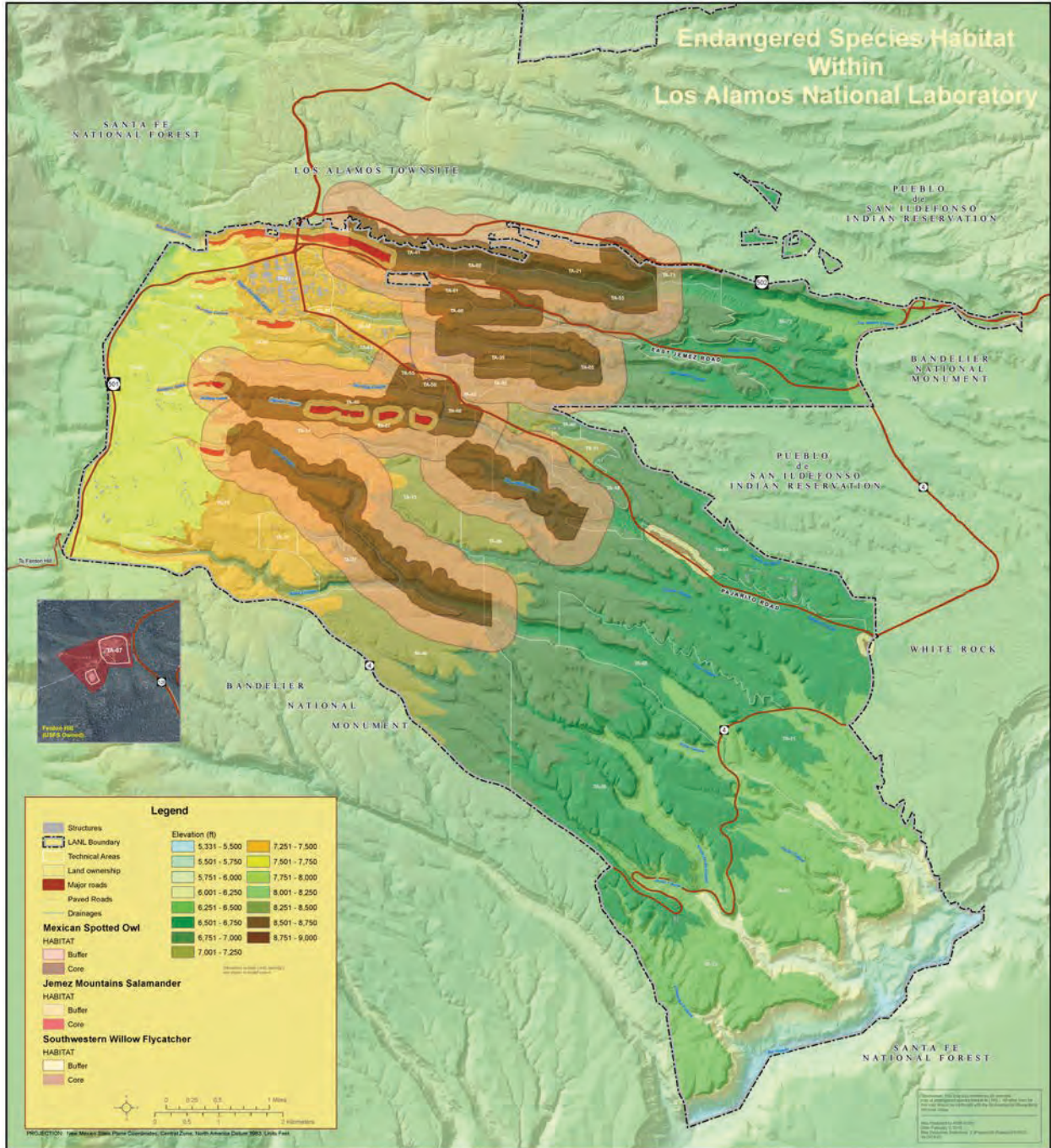


Figure A-1. Most recent map of all AEIs at LANL

**ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT**

# MSGP

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## *IPaC Trust Resource Report*

Generated July 27, 2015 07:29 PM MDT





US Fish &amp; Wildlife Service

# IPaC Trust Resource Report



## Project Description

NAME

MSGP

PROJECT CODE

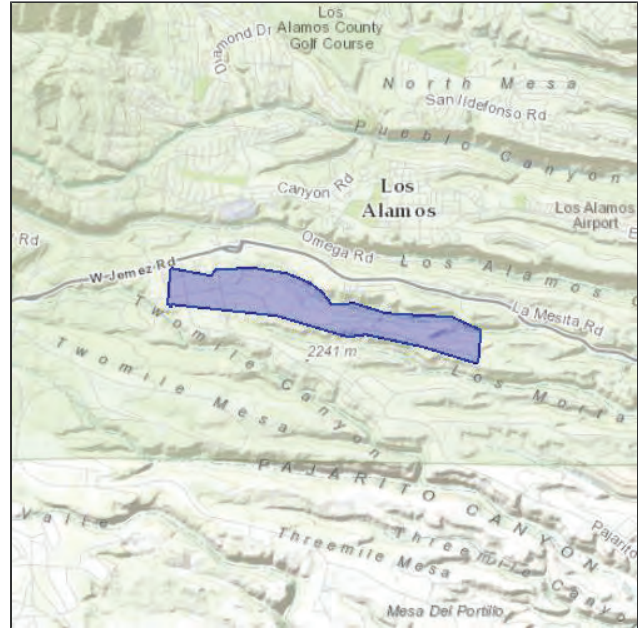
LXATM-TI5EJ-BAJEQ-3NC5E-SOGYTE

LOCATION

Los Alamos County, New Mexico

DESCRIPTION

Facilities that discharge to Sandia Canyon within TA-3 and TA-60. Industrial facilities subject to the MSGP. July, 2015.



## U.S. Fish & Wildlife Contact Information

Species in this report are managed by:

### New Mexico Ecological Services Field Office

2105 Osuna Road Ne

Albuquerque, NM 87113-1001

(505) 346-2525

# Endangered Species

Proposed, candidate, threatened, and endangered species that are managed by the [Endangered Species Program](#) and should be considered as part of an effect analysis for this project.

This unofficial species list is for informational purposes only and does not fulfill the requirements under [Section 7](#) of the Endangered Species Act, which states that Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action." This requirement applies to projects which are conducted, permitted or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can be obtained by returning to this project on the IPaC website and requesting an Official Species List from the regulatory documents section.

## Amphibians

### Jemez Mountains Salamander *Plethodon neomexicanus*

**Endangered**

#### CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?sPCODE=D019>

## Birds

### Mexican Spotted Owl *Strix occidentalis lucida*

**Threatened**

#### CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?sPCODE=B074>

### Southwestern Willow Flycatcher *Empidonax traillii extimus*

**Endangered**

#### CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?sPCODE=B094>

### Yellow-billed Cuckoo *Coccyzus americanus*

**Threatened**

#### CRITICAL HABITAT

There is **proposed** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?sPCODE=B06R>

## Mammals

### New Mexico Meadow Jumping Mouse *Zapus hudsonius luteus*

**Endangered**

#### CRITICAL HABITAT

There is **proposed** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?sPCODE=A0BX>

## Critical Habitats

Potential effects to critical habitat(s) within the project area must be analyzed along with the endangered species themselves.

There is no critical habitat within this project area

# Migratory Birds

Birds are protected by the [Migratory Bird Treaty Act](#) and the Bald and Golden Eagle Protection Act.

Any activity which results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service (1). There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

You are responsible for complying with the appropriate regulations for the protection of birds as part of this project. This involves analyzing potential impacts and implementing appropriate conservation measures for all project activities.

<b>Bald Eagle</b> <i>Haliaeetus leucocephalus</i> Season: Wintering <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?scode=B008">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?scode=B008</a>	<b>Bird of conservation concern</b>
<b>Bendire's Thrasher</b> <i>Toxostoma bendirei</i> Season: Breeding	<b>Bird of conservation concern</b>
<b>Brewer's Sparrow</b> <i>Spizella breweri</i> Season: Migrating <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?scode=B0HA">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?scode=B0HA</a>	<b>Bird of conservation concern</b>
<b>Brown-capped Rosy-finch</b> <i>Leucosticte australis</i> Season: Wintering	<b>Bird of conservation concern</b>
<b>Burrowing Owl</b> <i>Athene cunicularia</i> Season: Breeding	<b>Bird of conservation concern</b>
<b>Cassin's Finch</b> <i>Carpodacus cassinii</i> Year-round	<b>Bird of conservation concern</b>
<b>Flammulated Owl</b> <i>Otus flammeolus</i> Season: Breeding <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?scode=B0DK">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?scode=B0DK</a>	<b>Bird of conservation concern</b>
<b>Fox Sparrow</b> <i>Passerella iliaca</i> Season: Wintering	<b>Bird of conservation concern</b>
<b>Golden Eagle</b> <i>Aquila chrysaetos</i> Year-round <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?scode=B0DV">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?scode=B0DV</a>	<b>Bird of conservation concern</b>
<b>Grace's Warbler</b> <i>Dendroica graciae</i> Season: Breeding	<b>Bird of conservation concern</b>
<b>Juniper Titmouse</b> <i>Baeolophus ridgwayi</i> Year-round	<b>Bird of conservation concern</b>
<b>Lewis's Woodpecker</b> <i>Melanerpes lewis</i> Year-round	<b>Bird of conservation concern</b>
<b>Loggerhead Shrike</b> <i>Lanius ludovicianus</i> Year-round <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?scode=B0FY">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?scode=B0FY</a>	<b>Bird of conservation concern</b>



<b>Mountain Plover</b> Charadrius montanus	<b>Bird of conservation concern</b>
Season: Breeding <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B078">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B078</a>	
<b>Olive-sided Flycatcher</b> Contopus cooperi	<b>Bird of conservation concern</b>
Season: Breeding <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0AN">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0AN</a>	
<b>Peregrine Falcon</b> Falco peregrinus	<b>Bird of conservation concern</b>
Season: Breeding <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FU">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FU</a>	
<b>Pinyon Jay</b> Gymnorhinus cyanocephalus	<b>Bird of conservation concern</b>
Year-round	
<b>Prairie Falcon</b> Falco mexicanus	<b>Bird of conservation concern</b>
Year-round <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0ER">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0ER</a>	
<b>Swainson's Hawk</b> Buteo swainsoni	<b>Bird of conservation concern</b>
Season: Breeding <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B070">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B070</a>	
<b>Williamson's Sapsucker</b> Sphyrapicus thyroideus	<b>Bird of conservation concern</b>
Season: Breeding <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FX">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FX</a>	
<b>Willow Flycatcher</b> Empidonax traillii	<b>Bird of conservation concern</b>
Season: Breeding <a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0F6">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0F6</a>	

## Refuges

Any activity proposed on [National Wildlife Refuge](#) lands must undergo a 'Compatibility Determination' conducted by the Refuge. If your project overlaps or otherwise impacts a Refuge, please contact that Refuge to discuss the authorization process.

There are no refuges within this project area

# Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes.

Project proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

## 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 tubercid 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.

There are no wetlands identified in this project area

**ATTACHMENT 15: EPC-CP-PIP-2101, NPDES MULTI-SECTOR GENERAL PERMIT PROGRAM  
IMPLEMENTATION PLAN**

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<b>EPC-CP-PIP-2101</b>	Revision: <b>0</b>	
Effective Date: 01/19/2021	Next Review Date: 01/19/2024	

**Environment, Safety, Health, Quality, Safeguards and Security Directorate**

**Environmental Protection and Compliance Division – Compliance Programs Group**

**Program Implementation Plan (PIP)**

## NPDES Multi-Sector General Permit

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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.

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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 done so 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 LANL'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, Table 2
- 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

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### **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 Storm Water 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 (see Appendix A):

- ML-4, per MLDS No.: MLDS-TA-60-324, Revision 0.

#### **3.3.2 Software Risk Levels**

The following Software Risk Level Forms are applicable to software used during the performance of the MSGP Program (see Appendix B, C, and D):

- Environmental Information Management (EIM)
- MSGP Corrective Action Reporting Database and corresponding administrative module
- Maintenance Connection and Maintenance Connection Express

### **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, Table 2. 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/DOE Order 414.1D, Chg. 1.

### **4.1 Criterion 1 – Management/Program**

#### **4.1.1 Program Goals**

The MSGP Program supports EPC Division in efforts to protect:

- Public health and environment by implementing rigorous compliance programs designed to assure institutional compliance with state and federal environmental protection regulations;
- Designated uses of the Laboratory's natural resources by applying sound ecological and engineering principles towards mitigation of the Laboratory's impact; and

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- Human health and the environment during emergencies by assuring technical capabilities are available to measure and evaluate unplanned release of hazardous materials into the environment.

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, level of authorities, and lines of communication are found within this PIP. The 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, and change NOIs 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 Storm Water Permitting/Compliance Team Leader**

- Ensure that program personnel perform the work areas/types 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.

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- Support Facility Operations Directors (FODs) and 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 ADESH-QAP-001, *ADESH Quality Assurance Plan*.
- Conduct periodic reviews of records and documentation for accuracy, applicability, and to ensure 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 Storm Water 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, environmental protection, or other improvements of the program's operations.
- Ensure deficiencies are reported to the Storm Water 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.



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- 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., Notice of Intent (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 Storm Water 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 Multi-Sector General Permit program.

#### **4.1.2.5 MSGP Personnel**

- Perform MSGP Program related activities as assigned by the Storm Water 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.

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- 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.
- Maintain and administer 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.
- Ship/transport samples to the correct off-site analytical laboratory for analysis.
- Maintain and administer sampling plans and sample documentation.
- Load analytical data into the EIM database and run auto-validation checks.
- Manage analytical laboratory data packages.

#### **4.1.2.7 Corrective Action Reporting Database Administrator**

- Maintain and administer 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.

#### **4.1.2.8 Maintenance Connection Database Administrator**

- Maintain and administer the database.
- Provide role-related database access.

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- 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 facility and its associated stormwater outfalls. The designated owner/operator may be the Facility Operations Manager, Maintenance Manager, or Group Leader that is responsible for the buildings, facilities, and areas where the stormwater outfall is 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. The DEP provides daily environmental oversight, guidance, and support to the FOD and each designated permitted industrial facility owner/operator. The MSGP Program interfaces with the DEPs regularly to coordinate outfall surveys, inspections, site walks, and monitoring. The DEP performs the following MSGP activities.

- Act as a liaison between the industrial 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**

The EPC-CP SMO is the central point for all analytical laboratory selection, evaluations, sample submittal, and data return. The SMO performs the following activities.

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- 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 field 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 entered into the EIM by SMO personnel when field personnel deliver samples to the SMO.
- If significant verification and validation issues are identified, results are forwarded to and discussed with the responsible program leads.
- Data issues that result from procedural failures, personnel errors, or other failures to follow requirements are documented as issues and corrected according to P322-4, *Issues Management*.

#### **4.1.4 External Interfaces**

##### **4.1.4.1 Environmental Protection Agency**

The EPA Region 6 issues and administers NPDES Permits in the State of New Mexico. The MSGP Program interfaces with the EPA, as needed, to complete permit applications, support permit development, support public comments and meetings, and 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(a), Clean Water Act certification through a joint federal and state agreement. Section 401(a) requires that all federally issued permits are certified by the state in which the discharge occurs and that the effluent limits set forth in the permit issued adheres 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 the LANL operates in compliance with all state and federal



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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 the 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 Storm Water Permitting/Compliance Team Leader shall determine skills, knowledge, and abilities required to perform MSGP Program work area/type activities. Program personnel will be qualified and trained in accordance with P781-1, *Conduct of Training* and ADESH-TPP-301, *ADESH Training Program Plan*. The Storm Water Permitting/Compliance Team Leader assigns minimum training requirements using a training plan. The Triad Human Resources Division maintains documentation of education qualification. Table 4.2 provides a summary of the qualification and training requirements for the MSGP Program.

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**Table 4.2 Management/Personnel Training and Qualification**

<b>Key Personnel/Role</b>	<b>Qualification Standard</b>	<b>Program Specific Training</b>
Storm Water Permitting/Compliance Team Leader	<ul style="list-style-type: none"> <li>• EPC-CP Manager Qualification Standard</li> <li>• EPC-CP Group Qualification Standard</li> <li>• EPC-CP-QS-2005, Stormwater Inspector Qualification Standard</li> <li>• EPC-CP-QS-2006, Stormwater Pollution Prevention Plan Preparer Qualification Standard</li> <li>• EPC-CP-QS-2007, Stormwater Design Reviewer Qualification Standard</li> </ul>	EPC-CP-PIP-2101
MSGP Program Lead, MSGP Personnel	<ul style="list-style-type: none"> <li>• EPC-CP Group Qualification Standard</li> <li>• EPC-CP-QS-2005, Stormwater Inspector Qualification Standard</li> <li>• EPC-CP-QS-2006, Stormwater Pollution Prevention Plan Preparer Qualification Standard</li> <li>• EPC-CP-QS-2007, Stormwater Design Reviewer Qualification Standard*</li> </ul>	
Discharge Monitoring Report Manager	<ul style="list-style-type: none"> <li>• EPC-CP Group Qualification Standard</li> </ul>	
Database Administrator	<ul style="list-style-type: none"> <li>• EPC-CP Group Qualification Standard</li> </ul>	
* As required by job duties.		

### **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*, ADESH-QAP-001, *ADESH Quality Assurance Plan*, and Group procedures. A corrective action that meets any of the following criteria will be entered into the Issues Management Tool that will be screened as high, medium, or low.

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- 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 timeframe to complete a corrective action and corrective action was not completed by the required completion date provided in the letter.
- 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 system (ESH-AP-007, *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:

- <https://edrms.lanl.gov/edrms/?docbase=lanldocs&locateld=0b02a68c800079c1>, all other copies are uncontrolled.

Phone calls, emails, or fax communications are documented and controlled if the content provides direction or results in decisions.

##### **4.4.2 Procedures**

Procedures that implement the work area/type scope identified in this PIP will be developed and controlled, as needed, in accordance with ADESH-QAP-001, *ADESH Quality Assurance Plan*, ESH-AP-007, *Document Control*, and EPC-CP-QP-0901, *EPC-CP Quality Procedure to Supplement ESH-AP-007, Document Control*.

##### **4.4.3 Electronic Media**

The MSGP utilizes electronic means as necessary to maintain data. Databases used to hold data and generate reports to be used in demonstrating compliance are maintained on a common drive of a server or on a cloud 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 the databases.

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

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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.htm](https://www.maintenanceconnection.com/mcv18/online/mc_login.htm)) 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 Reporting (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 ADESH-AP-006, *Records Management Plan*. The Storm Water 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
- Notices of Intent (NOIs) and Notices of Termination (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, log entries, faxes that provide directions or results in decisions)
- Applicable IWDs
- General MSGP compliance documents (correspondence with regulators and stakeholders, notice of change conditions, etc.)

Analytical data packages are stored in EDRMS and are available for public viewing on the Intellus New Mexico website.



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The DEPs assigned to the FOD in which an industrial facility resides keep, as part of the Stormwater Pollution Prevention Plan, the following records pertaining to that facility.

- 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 shall be 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. All Annual Reports and DMRs must be submitted electronically in accordance with the MSGP. Most information required to be submitted by the MSGP is submitted via EPA's electronic tool CDX electronic reporting website ([cdx.epa.gov](http://cdx.epa.gov)), 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 that LANL's 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 5.5 of the MSGP
- All reports and certifications required by the MSGP
- Monitoring data
- Records of all data 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

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administrative, technical, and environmental controls established by management to achieve an end result. Workers are the best resource of contributing ideas for improving work processes and will be 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**

Stormwater Pollution Prevention Plan (SWPPP) development and implementation by the regulated industrial facility is required for MSGP compliance (refer to Sections 5.0 and 8.0 of the MSGP for general SWPPP requirements and Sector-Specific Requirements for Industrial Activity, and Attachment 2, *MSGP Facilities and Monitored Outfalls Associated with Industrial Activity*). The SWPPP is intended to document the selection, design, and installation of control measures. 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 control measures that are implemented at the specific industrial facility to minimize the discharge of pollutants in runoff from the site. These control measures include site-specific BMPs, inspections, employee training, and reporting. The plans and procedures detailed in the SWPPP must be 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 BMPs to assure effectiveness of control measures. The Laboratory has implemented a routine inspection process (e.g., monthly or quarterly) of 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 outfalls associated with industrial 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*.

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#### **4.5.4 Stormwater Corrective Actions**

It is critical that the Laboratory be able to effectively inspect and maintain the BMPs 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 EPA each year. Laboratory management has made an investment in time and materials, in addition to a commitment to minimizing the potential migration of contaminants in stormwater. Report findings are evaluated and in conjunction with facility personnel, BMPs are modified, installed, or removed as necessary. EPC-CP personnel will follow guidance in EPC Division and Group documents including the most current revision of EPC-CP-QP-022, *MSGP Corrective Actions*.

##### **4.5.4.1 Responding to Water Quality Exceedances**

Federal stormwater regulations implemented under the Laboratory's MSGP require that corrective action be taken if exceedances of water quality standards or MSGP numeric effluent limits are identified. The identification of a pollutant source(s) contributing to a water quality exceedance is addressed through the creation of a condition requiring corrective action that is entered into the MSGP CAR database in accordance with EPC-CP-QP-022, *MSGP Corrective Actions*. Corrective actions are typically accomplished by modifying, as appropriate, existing BMPs and SWPPPs or installing new BMPs.

When a water quality exceedance occurs, the MSGP Data Administrator assures the analytical data is reviewed and submitted on the required DMR. The Program Lead enters the exceedance as a condition requiring corrective action in the MSGP CAR database. DEPs, and other SWPPP team members then investigate the occurrence, implement corrective action and document all corrective actions taken.

When an exceedance of the MSGP benchmark parameters is detected, the same process is followed as identified for a water quality exceedance above.

##### **4.5.5 Stormwater Monitoring**

The MSGP requires stormwater monitoring to address three separate criteria: Quarterly Benchmark, Effluent Limitations, and Impaired Waters. Refer to Attachment 2, *MSGP Facilities Associated with Industrial Activity* for a list of Laboratory sites 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 monitoring is used for determining the effectiveness of stormwater controls and, corrective actions for meeting the requirements of the MSGP. 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 that prevented quarterly collection are documented (see *Adverse Weather Conditions* in Part 6.1.5 of the MSGP). Stormwater monitoring results are used to

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demonstrate compliance with water quality standards and requirements to evaluate results against benchmark parameters.

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 the New Mexico Environment Department. The pollutants vary from canyon to canyon. The impaired waters pollutants are evaluated and published biannually by NMED in the Clean Water Act §303(d)/305(b) Integrated Report (IR). 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 for three consecutive years.

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*.

Since LANL is located in an area where limited rainfall occurs during parts of the year (i.e., in a semi-arid climate) and has periods of freezing conditions, Triad has identified an alternative monitoring period, as allowed by the Permit, of four quarters as follows for each calendar year.

- April 1-May 31
- June 1-July 31
- August 1-September 30
- October 1-November 30

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 BMPs. 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.



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Any persons involved in the preparation, retrieval, and analysis must maintain positive control of samples at all times until sample disposal. Chain of custody responsibilities are summarized in 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 for the MSGP;
- EPC-CP-QP-2104, Installing, Inspecting, and Maintaining MSGP Single Stage Samplers;
- EPC-CP-QP-2111, Per- and Polyfluoroalkyl Substances (PFAS) Sampling for EPC-CP Surface Water Programs; and
- EPC-CP-QP-2106, Processing MSGP Stormwater Samples.

<b>Table 4.5.5-1 Chain of Custody</b>	
<b>Activity</b>	<b>Responsibility</b>
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 4.1.3.3 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 Rinse 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.

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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.

<b>Table 4.5.5.1-1 Quality Control Sampling Requirements</b>		
<b>Sample Type</b>	<b>Analysis</b>	<b>Frequency</b>
Equipment Rinsate Blank	PFAS, o	At the MSGP Program Lead's discretion.
Field Blank and/or Field Duplicate	Includes all analytical groups	10% of samples or a minimum of one per calendar year.
PFAS= Per- and polyfluoroalkyl substances		

All QC samples shall be collected in accordance with procedures provided in EPC-CP-QP-3027, Sample Containers, Preservation, and Field Quality Control.

#### **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 Central Data Exchange (CDX) website (<https://cdx.epa.gov/>). The DMR manager may import DMRs into NetDMR; however, a designated EPC Signatory Official or Authorized Representative may only submit the DMRs for NPDES Permits. NetDMR roles and permissions for these functions are described on the NetDMR Support Portal (<https://netdmr.zendesk.com/hc/en-us>).

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#### **4.5.6.2 Annual Reports**

The Laboratory is required to submit an annual report electronically to the EPA that includes a summary of the findings from inspections and corrective action documentation. The documentation includes the following:

- Information relative to whether a waiver was granted, by whom, and the date the waiver was approved;
- The NPDES Permit Tracking Number;
- A summary of the past year's routine facility inspection documentation (see Part 3.1.2 of the MSGP);
- A summary of your past years quarterly visual assessment documentation (see Part 3.2.2 of the MSGP);
- A summary of the corrective action documentation over the past year (see Part 4.4 of the MSGP); and
- For a four-sample average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation of the site's control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, personnel determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice and the rationale for why it is believed no further reduction are achievable (see Part 6.2.1.2 of the MSGP).
- The annual report is submitted electronically via the NetMSGP program service via 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 and;
- P342, Engineering Standards.

Design standards under this program include, but are not limited to temporary and permanent BMPs, corrective action measures, 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

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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 will be 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*. 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 work areas/types in accordance with P328-3, *Management Assessment* and P328-4, *Management Observation and Verification*. Assessments are documented and filed as records in accordance with ADESH-AP-006, *Records Management*. Violations of requirements and/or findings from management assessments and MOVs will initiate a nonconformance report in accordance with P330-6 Nonconformance 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 Storm Water 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*.



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#### 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, 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

The required training associated with this document is as follows and is documented in accordance with ADESH-TPP-301, *ADESH Training Program Plan*. Training for EPC-CP MSGP employees, DEPs, and subcontractors must be assigned and tracked using UTrain, the institutional training records management system.

- Self-study of this procedure (required reading) is required for all MSGP Program employees, including subcontractors.

### 7.0 DOCUMENTS AND RECORDS

The ESHQSS DCRM is the Office of Record for this document and maintains the administrative record. Documents and records must be maintained in accordance with PD1020, *Document Control and Records Management*; ESH-AP-007, *Document Control*; and ADESH-AP-006, *Records Management Plan*.

### 8.0 DEFINITIONS AND ACRONYMS

Use the LANL *Definition of Terms* and those in SD330.

Use the LANL *Acronym Master List*.

BMP	Best Management Practice
CFR	Code of Federal Regulations
CRD	Contractor Requirements Document
DCRM	Document Control and Records Management
DEP	Deployed Environmental Professional
DMR	Discharge Monitoring Report
DOE	Department of Energy
ESHQSS	Environment, Safety, Health, Quality, Safeguards, and Security

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EPC-CP	Environmental Protection and Compliance-Compliance Programs
EIM	Environmental Information Management
ELG	Effluent Limitations Guidelines
EPA	Environmental Protection Agency
FOD	Facility Operations Director
LANL	Los Alamos National Laboratory
MSGP	Multi-Sector General Program
MOV	Management Observation and Verification
NeT	NPDES eReporting Tool
NOI	Notice of Intent
NOT	Notice of Termination
NMED	New Mexico Environmental Department
NNSA	National Nuclear Safety Administration
NPDES	National Pollutant Discharge Elimination System
PIP	Program Implementation Plan
QA	Quality Assurance
QBM	Quarterly Benchmark Monitoring
S/CI	Suspect/Counterfeit Items
STR	Subcontract Technical Representative
SMO	Sample Management Office
SWPPP	Stormwater Pollution Prevention Plan
SWTS	Storm Water Tracking Module

## 9.0 REFERENCES

The latest document revision, available through LANL's Electronic Document and Records Management System, shall be used unless otherwise specified.

Prime Contract

DOE Order 414.1D, Chg. 1, *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 Surface Waters

### **LANL Documents:**

SD330, *Los Alamos National Laboratory Quality Assurance Program*

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P101-17, *Excavation/Fill/Soil Disturbance*

P300, *Integrated Work Management for Work Activities*

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 Work*

P341, *Facility Engineering Process 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*

#### **EPC Documents:**

ADESH-AP-006, *Records Management Plan*

ESH-AP-007, *Document Control*

ADESH-TPP-301, *ADESH Training Program Plan*

ADESH-QAP-001, *ADESH Quality Assurance Plan*

EPC-DO-QP-100, *General Field Safety*

EPC-CP-QAP-001, *Environmental Compliance Programs Quality Assurance Plan*

EPC-CP-QAP-901, *EPC-CP Quality Procedure to Supplement ESH-AP-007, Document Control*

ENV-RCRA-QP-026, *PR-ID and EX-ID Review Process*

EPC-CP-QP-022, *MSGP Corrective Actions*

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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 for the MSGP*

## **10.0 APPENDICIES**

Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0

Appendix B: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) for Environmental Information Management System

Appendix C: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) for the MSGP Corrective Action Reporting Database

Appendix D: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) for Maintenance Connection and Maintenance Connection Express

## **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 Group Leader

Name: Taunia Van Valkenburg

Telephone: (505) 665-9827

E-mail: tauniav@lanl.gov

Website: <https://int.lanl.gov/org/ddops/aladeshqss/environmental-protection/index.shtml>




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**Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0**

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 <p>Los Alamos NATIONAL LABORATORY</p>	<p><b>Multi-Sector</b></p> <p><b>NPDES Construction General Permit Program</b></p> <p><b>Management Level Determination</b></p>	<p><b>Conduct of Engineering</b></p>
MLDS No.: MLDS-TA-60-324	Rev.: 0	Page 1 of

1.0 SYSTEM INFORMATION		
1.1 TA No.: All	1.2 Facility No.: All	1.3 Facility Name: All LANL
1.4 Facility Hazard Category:		
<input type="checkbox"/> Nuclear Facility <input checked="" type="checkbox"/> Nonnuclear Facility		
<input type="checkbox"/> HC-2 <input type="checkbox"/> HC-3 <input type="checkbox"/> Less than HC-3	<input type="checkbox"/> Chemical High-PSM <input type="checkbox"/> Chemical High-non-PSM <input type="checkbox"/> Chemical Moderate <input checked="" type="checkbox"/> Chemical Low	<input type="checkbox"/> Accelerator <input type="checkbox"/> Firing Range <input type="checkbox"/> Biological <input type="checkbox"/> Explosive
1.5 Operating System ID: WSTWTR	1.6 Operating System Name: Waste Water	
1.7 System ID: STW	1.8 System Name: Storm Water – Multi-Sector General Permit Program	

2.0 SECURITY CLASSIFICATION REVIEW
2.1 Security Classification: Unclassified
2.2 DC/RO: (Name, Z Number, Organization, Signature, Date)
Taunia Van Valkenburg, 145666, EPC-CP,  12/16/19

3.0 SYSTEM MANAGEMENT LEVEL DETERMINATION ANALYSIS		
3.1 Does this system meet one of the criteria below? If "Yes", then check the applicable criteria, insert the safety function(s) and safety analysis reference(s), and go to Section 4.0 and designate the system as ML-1.		
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<ul style="list-style-type: none"> <li>The system is an SSC of a Hazard Category 2 or 3 Nuclear Facility that performs Documented Safety Analysis (DSA) designated Safety Class (SC) function(s). <input type="checkbox"/></li> <li>The system is an SSC of an Accelerator Facility that performs Safety Assessment Document (SAD) designated public protection function(s). <input type="checkbox"/></li> <li>The system is an SSC of a High Hazard Nonnuclear Facility that performs function(s) identified in the Facility Safety Analysis (FSA) for protection of the public. <input type="checkbox"/></li> </ul>		
If "No" is checked then go to Field 3.2		
No.	SC or public protection functions as defined by Safety Analysis	DSA, SAD, or FSA Reference
3.1-1	N/A	N/A
3.1-2	N/A	N/A
3.1-3	N/A	N/A
3.2 Does this system meet one of the criteria below? If "Yes", then check the applicable criteria, insert the safety function(s) and safety analysis reference(s), and go to Section 4.0 and designate the system as ML-2.		
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

**LANL**


Form No: AP-341-502-FM01, Rev. 6  
Form Effective Date: 02/07/18

ES-DO-20-032

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**Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination,  
MLDS-TA-60-324 Rev. 0 (cont.)**

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**Los Alamos**  
NATIONAL LABORATORY

*Multi-Sector*  
**NPDES Construction General Permit Program**  
**Management Level Determination**

**Conduct of Engineering**

MLDS No.: MLDS-TA-60-324      Rev.: 0      Page 2 of

- The system is an SSC of a Hazard Category 2 or 3 Nuclear Facility that performs DSA designated Safety Significant (SS) function(s). ☐
- The system is an SSC of an Accelerator Facility that performs SAD designated worker protection function(s). ☐
- The system is an SSC of a High Hazard Nonnuclear Facility that performs function(s) identified in the FSA for protection of the uninvolved or noninvolved worker. ☐

If "No" is checked then go to Field 3.3.

No.	SS functions or worker protection functions as defined by Safety Analysis	DSA, SAD, or FSA Reference
3.2-1	N/A	N/A
3.2-2	N/A	N/A
3.2-3	N/A	N/A

3.3 Does this system meet one of the criteria below? If "Yes", then check the applicable criteria, insert the function(s) and safety analysis or Facility Management reference(s), and go to Section 4.0 and designate the system as ML-3. Yes ☐ No ☒


**LANL**

Form No: AP-341-502-FM01, Rev. 6  
Form Effective Date: 02/07/18

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**Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0 (cont.)**

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**Los Alamos**  
NATIONAL LABORATORY

**Multi-Sector Conduct of Engineering**  
**NPDES Construction General Permit Program**  
**Management Level Determination**

MLDS No.: MLDS-TA-60-324      Rev.: 0      Page 3 of 3

- The system is an SSC of a Hazard Category 2 or 3 Nuclear Facility that is designated Other Hazard Control (OHC) in the DSA. ☐
- The system is an SSC that performs function(s) for protection of Category I or II Special Nuclear Material (SNM) or Classified Matter as determined by the Facility Management. ☐
- The system is an SSC of a Moderate Hazard Nonnuclear Facility that performs function(s) identified in the FSA for protection of uninvolved or noninvolved worker and the Facility Management requires enhanced engineering, quality, or maintenance support above national codes and standards requirements. ☐
- The system is an SSC that performs important function(s) for compliance with Waste Acceptance Criteria (WAC) for a Waste Receiving Site and as determined by the Facility Management. ☐
- The system is an SSC that performs function(s) for radiation protection that are not covered in the Radiation Protection Safety Management Program (SMP) and are considered important to normal, abnormal, or emergency response by the Facility Management. ☐
- The system is an SSC that performs function(s) for environmental protection that are called out in a permit or used to demonstrate environmental compliance that are considered important by the Facility Management. (See discussion below) ☒
- The system is an SSC that performs function(s) that are essential to the facility mission as determined by the Facility Management. ☐

*Evaluation:* This MLDS is for the overall Multi-Sector General Permit (MSGP) Program at LANL, which is responsible for monitoring the storm water discharges at the outfalls to meet Water Quality Standards. The MSGP Program is responsible for the following:

- Determines inspection requirements, how often to conduct these inspections and what to monitor for;
- Evaluates sample results and compares those results to established effluent limits;
- Provides storm water discharge summary reports to the associated enforcement agencies at a predetermined reporting frequency;
- Works with the enforcement agencies to address identified issues.

In summary, this MLDS is associated with a program and not equipment. There is nothing in the program that would require it to be elevated to ML-3. While the program may rely on equipment to support permit requirements, the equipment (as applicable) should be evaluated separately from the program to determine the appropriate management level.

If "No" is checked then go to Field 3.4

No.	OHC Functions defined by Safety Analysis or other ML-3 functions as determined by Facility Management	DSA or Facility Management Reference
3.3-1	Obtain permit coverage (NOI) and modification	N/A
3.3-2	Permit implementation	N/A
3.3-3	Compliance inspections	N/A
3.3-4	Data management	N/A

**LANL**


Form No: AP-341-502-FM01, Rev. 6  
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**Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0 (cont.)**

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	<b>Multi-Sector</b> <b>NPDES Construction General Permit Program</b> <b>Management Level Determination</b>	<b>Conduct of Engineering</b>
MLDS No.: MLDS-TA-60-324	Rev.: 0	Page 4 of

3.3-5	Reporting	N/A
3.4 If the System does not meet any of the criteria in fields 3.1, 3.2, or 3.3, then designate the system as ML-4 in Section 4.0.		

<b>4.0 SYSTEM MANAGEMENT LEVEL DESIGNATION</b>			
ML-1 <input type="checkbox"/>	ML-2 <input type="checkbox"/>	ML-3 <input type="checkbox"/>	ML-4 <input checked="" type="checkbox"/>

<b>5.0 APPROVALS</b>	
5.1 Responsible Engineer (Name, Z Number, Organization, Signature, and Date)	
Terrill Lemke, 120092, EPC-CP	<i>Terrill Lemke</i> 4/25/19
5.2 Verifier (Name, Z Number, Organization, Signature, and Date)	
Taunia Van Valkenburg, 145666, EPC-CP	<i>Taunia Van Valkenburg</i> 12/11/19
5.3 Facility Design Authority Representative (Name, Z Number, Organization, Signature, and Date)	
Jason Apperson, 222827, ES-DO	<i>Jason Apperson</i> 12/12/19


<b>6.0 REVISIONS</b>					
Rev. No.	Date	Description	RE	Verifier	FDAR
0		Original Issue			



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## Appendix B: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) for Environmental Information Management System

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 <p><b>Los Alamos</b> NATIONAL LABORATORY EST. 1943</p>	<p>Reference No: _____</p> <p style="text-align: right;">Form 2033</p> <p style="text-align: right;"><i>The Software Owner RLM must retain completed forms as a record.</i></p> <p style="text-align: center;"><b>Safety/Non-Safety Software Determination, Categorization, and Software Risk Level (SRL)</b> (See Page 5 for Guidance)</p>					
<p><b>Part 1: Document the rationale supporting the reasonable probability that the software may be safety software, or risk significant software.</b></p> <p>1.1 Excluding personal productivity software that does not provide calculation output (e.g., e-mail software, presentation software), indicate whether the software is or will be used in connection with the design, analysis and/or operation of:</p> <p> <input type="checkbox"/> a nuclear (including radiological) facility (Ref. <a href="#">LANL Nuclear Facility List</a>, <a href="#">Conduct of Operations Resources Website</a>), or  <input type="checkbox"/> an accelerator, live-firing range, biological hazard facility, high explosive facility, or moderate- or high- chemical hazard facility as determined using <a href="#">SBP111-1</a>, <i>Facility Hazard Categorization and Documentation</i>; or  <input type="checkbox"/> LANL's Essential Functions as described in <a href="#">SEO-COOP-006</a>, <i>LANL NA-LA Continuity of Operations (COOP) Plan</i>.         </p> <p>Provide supporting comments (as necessary to document the selection above).</p>						
<p><b>Part 2: Document the software information, software application(s) and software function(s). A separate form may be used for each software item or one form may be used for multiple software items.</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">2.1 Provide software name(s). EIM</td> <td style="width: 25%;">2.2 Provide software version(s). N/A</td> <td style="width: 25%;">2.3 Indicate software owner (SO). John McCann</td> <td style="width: 25%;">2.4 Indicate SO organization. EPC-CP</td> </tr> </table> <p>2.5 Provide a description of the specific facility application(s) to sufficient detail to allow the software to be readily traceable to the point(s) of application within the facility. Include technical area (TA) and building number, or, site-wide or Facility Operating Directorate (FOD)-wide use. Add other descriptive information as required. EIM is a cloud-based software service used by the EPC-CP personnel to support and streamline various activities related to environmental sampling and management, including: sample planning development/documentation, sample tracking/chain-of-custody, quality checks, and reporting. This software can be used by anyone at LANL associated with environmental sampling.</p> <p>2.6 Indicate System, Structure or Components (SSCs) controlled or affected by the software. Indicate NA if not applicable. N/A</p> <p>2.6.1 Provide SSC name(s). N/A</p> <p>2.6.2 Provide functional requirement(s) of the software associated with the SSC. N/A</p> <p>2.6.3 Provide reference document(s) describing the SSC/software. N/A</p> <p>Provide supporting comments (as required). N/A</p> <p>2.7 Indicate facility classification (<a href="#">SBP111-1</a>), design, or analysis controlled or affected by the software. Indicate NA if not applicable. N/A</p> <p>2.7.1 Provide facility classification, design or analysis name. N/A</p> <p>2.7.2 Provide software functional requirement(s) associated with the facility classification, design or analysis. N/A</p> <p>2.7.3 Provide reference document(s) describing the facility classification, design, or analysis. N/A</p> <p>Provide supporting comments (as required). N/A</p>			2.1 Provide software name(s). EIM	2.2 Provide software version(s). N/A	2.3 Indicate software owner (SO). John McCann	2.4 Indicate SO organization. EPC-CP
2.1 Provide software name(s). EIM	2.2 Provide software version(s). N/A	2.3 Indicate software owner (SO). John McCann	2.4 Indicate SO organization. EPC-CP			

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## Appendix B: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) for Environmental Information Management System (cont.)

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2.8	Indicate the hazard control, Safety Management Program (SMP) and/or technical safety requirements (TSRs) controlled or affected by the software. Indicate NA if not applicable. N/A
2.8.1	Provide the hazard control, SMP and/or TSR name. N/A
2.8.2	Provide the software functional requirement(s) for the hazard control, SMP and/or TSR. N/A
2.8.3	Provide reference document(s) describing the hazard control, SMP and/or TSR. N/A
	Provide supporting comments (as required). N/A

<b>Part 3: Determine whether the software type is (1) safety software; or (2) non-safety software and the associated category for each type.</b>	
3.1 Check one of the following (3.1.1 through 3.1.5) to determine one of the two software types (safety software or non-safety software) and one of the associated 5 categories for each type (i.e. Categories include SSS, SHADS or SMACS for safety software; and, Risk Significant or Commercially Controlled for non-safety software).	
<b>Note:</b> If software is determined to be safety software or risk significant software, complete all parts of this form. If software is determined to be commercially controlled software, complete all parts of this form <b>except for Part 4.</b>	
3.1.1 Safety software: SSS <input type="checkbox"/>	This is software for a nuclear (including radiological) facility that performs, or will perform a safety function as part of a Structure, System, and Component (SSC) and is cited in either (a) a Department of Energy (DOE)-approved documented safety analysis; or, (b) an approved hazard analysis per <a href="#">DOE P 450.4A, Integrated Safety Management Policy</a> and <a href="#">48 Code of Federal Regulations (CFR) 970.5223-1, Integration of Environment, Safety, and Health into Work Planning and Execution</a> . This is safety software and is categorized as Safety System Software (SSS). Provide supporting comments (as required).
3.1.2 Safety software: SHADS <input type="checkbox"/>	This is software that is used, or will be used to classify, design, or analyze nuclear (including radiological) facilities. This software is not part of an SSC, but helps to ensure the proper accident or hazards analysis of nuclear (including radiological) facilities or an SSC that performs a safety function. This is safety software and is categorized as Safety and Hazard Analysis Software and Design Software (SHADS). Provide supporting comments (as required).
3.1.3 Safety software: SMACS <input type="checkbox"/>	<div> <input type="checkbox"/> This is software that performs or will perform a hazard control function in support of nuclear (including radiological) facility radiological safety management programs (SMPs) or technical safety requirements (TSRs). This is safety software and is categorized as Safety Management and Administrative Controls Software (SMACS). Provide supporting comments (as required). </div> <div> <input type="checkbox"/> This is software that performs, or will perform a control function in support of a nuclear (including radiological) facility necessary to provide adequate protection from nuclear (including radiological) facility radiological hazards. It supports eliminating, limiting, or mitigating nuclear hazards to workers, the public, or the environment as addressed in <a href="#">10 CFR 830, Nuclear Safety Management</a>, <a href="#">10 CFR 835, Occupational Radiation Protection</a>, and the Department of Energy Acquisition Regulation (DEAR) Integrated Safety Management System (ISMS) clause 48 <a href="#">CFR 970.5223-1, Integration of Environment, Safety, and Health into Work Planning and Execution</a>. This is safety software and is categorized as Safety Management and Administrative Controls Software (SMACS). Provide supporting comments (as required). </div>
3.1.4 Non-safety software: Risk Significant <input type="checkbox"/>	This is software that is, or will be used for any of the purposes that safety software is used for only such purposes are in or for an accelerator, live-firing range, biological hazard facility, high explosive facility, or moderate- or high- chemical hazard facility OR, failure of the software would <u>prevent</u> LANL from performing Essential Functions as described in <a href="#">SFO-COOP-006, LANL NA-LA Continuity of Operations (COOP) Plan</a> . This is non-safety software and is categorized as Risk Significant software. Provide supporting comments (as required).



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**Appendix B: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL)  
(Form 2033) for Environmental Information Management System (cont.)**

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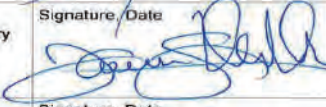

<b>3.1.5</b> Non-safety software: Commercially Controlled <input checked="" type="checkbox"/>	<p>This is software that is not, or will not be used for any of the above purposes in 3.1.1–3.1.4. Such software may be acquired (including commercial off the shelf (COTS)) or designed software. Examples of this software include personal productivity software (e.g., Microsoft PowerPoint, Oracle Project Primavera, MS Outlook, etc.) and other types of software (e.g., some business accounting systems, facility personnel comfort temperature monitoring systems). This is non-safety software and is categorized as Commercially Controlled software. Proceed to <b>Part 5</b>, Part 4 is not required.</p> <p>Provide supporting comments (as required).</p> <p>EIM is a cloud-based software tool used to streamline the collection and retention of environmental sampling and analysis data, and meets the Laboratory's obligation to publish all environmental data for public access. While analytical results are made available to anyone (output/customer-side), all approved user interactions (user-side) and software-related activities are controlled through approved procedures (various EPC-CP QPs, and EPC-ES TPs and Guides). While the approved/authorized use of this software item is important to completion of program goals, its use is not consistent with any of the purposes described above in 3.1.1 - 3.1.4. Various LANL Nuclear Facility Documented Safety Analyses (DSAs) discuss sampling within the Hazardous Material Protection Program (HMPP) Safety Management Plan (SMP); however, the DSAs do not explicitly credit any such sampling process or tool (including software) for providing a hazard control function. A failure, modification, or misuse of this software item may cause program-level complications, delays, or operational issues (e.g. sample reporting errors, etc.); however, it is extremely unlikely that such an event (i.e. on its own/without a separate failure of a credited safety system) would adversely effect a facility SSC Safety Function (per 3.1.1), a SSC design analysis (per 3.1.2), an administrative control function (per 3.1.3) as described in any LANI, facility DSA, or an COOP Essential Function (per 3.1.4). As such, the EIM software item, as used within the approved EPC-CP scope of work (does not cover any other LANL program/group scope), is considered Non-Safety/Commercially Controlled software.</p>
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<b>Part 4: Determine the Software Risk Level (SRL).</b>	
<b>4.1</b> Complete this section for safety software and risk significant software only. Do not complete this section for commercially controlled software. Check <b>only one</b> of the following to determine the SRL. Text shown in <b>[brackets]</b> is applicable to safety software only.	
<b>SRL 1</b> <input type="checkbox"/>	<p><b>4.1.1</b> This level includes software applications that meet one or more of the following criteria. Failure of the software could:</p> <ul style="list-style-type: none"> <li>▪ <b>[Compromise a limiting condition for operation].</b></li> <li>▪ <b>[Cause a reduction in the safety margin for a safety SSC that is cited in a DOE approved documented safety analysis.]</b></li> <li>▪ Cause a reduction in the safety margin for other systems such as toxic or chemical protection systems that are cited in either (a) a DOE approved documented safety analysis or (b) an approved hazard analysis per <a href="#">DOE P 450.4A</a>, <i>Integrated Safety Management Policy</i>, and the DEAR ISMS clause (<a href="#">48 CFR 970.5223-1</a>, <i>Integration of Environment, Safety, and Health into Work Planning and Execution</i>).</li> <li>▪ Result in non-conservative safety analysis, design, or misclassification of facilities or SSCs.</li> </ul> <p>Provide supporting comments (as required).</p>
<b>SRL 2</b> <input type="checkbox"/>	<p><b>4.1.2</b> This level includes <b>[safety]</b> software applications that do not meet SRL 1 criteria, but meet one or more of the following criteria:</p> <ul style="list-style-type: none"> <li>▪ <b>[Safety management databases used to aid in decision making whose failure could impact safety SSC operation.]</b></li> <li>▪ Software failure that could result in incorrect analysis, design, monitoring, alarming, or recording of hazardous exposures to workers or the public.</li> <li>▪ <b>[Software failure could compromise the defense-in-depth capability for a nuclear (including radiological) facility.]</b></li> </ul> <p>Provide supporting comments (as required).</p>
<b>SRL 3</b> <input type="checkbox"/>	<p><b>4.1.3</b> This level includes software applications that do not meet SRL 2 criteria, but meet one or more of the following criteria. Failure of the software could:</p> <ul style="list-style-type: none"> <li>▪ Cause a potential violation of regulatory permitting requirements.</li> <li>▪ Affect environment, safety, health monitoring, or alarming systems.</li> <li>▪ Affect the safe operation of an SSC.</li> </ul> <p>Provide supporting comments (as required).</p>

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**Appendix B: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL)  
(Form 2033) for Environmental Information Management System (cont.)**

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<b>Part 5: Attest to compliant completion, review and approve. A signature is required in 5.1, 5.2 and 5.3 for all completed 2033 Forms.</b>	
<b>5.1</b> As the Software Owner (SO), I have determined the software type, category, and as appropriate, SRL, in accordance with <u>P1040, Software Quality Management</u> and the instructions associated with this form.  Provide Name/Z No. (print) John McCann, 115625	Signature, Date  11-6-2019
<b>5.2</b> As the Software Owner Responsible Line Manager (SO RLM or SRLM), I have reviewed and approve the determination of the software type, category and, as appropriate, SRL for the software as described on this form.  Provide Name/Z No. (print) Tania Van Valkenburg, 145666	Signature, Date  11/6/2019
<b>5.3</b> As the <input checked="" type="checkbox"/> <u>Facility Design Authority Representative</u> (FDAR) for my representative facilities, as the <input type="checkbox"/> LANL Design Authority (DA), or, as the <input type="checkbox"/> Responsible Associate Laboratory Director (RALD), I have reviewed and approve the determination of the software type, category and, as appropriate, SRL for the software as described on this form. Check one.  Provide Name/Z No. (print) Jason Apperson, 222827  <b>Note:</b> The RALD is authorized to review and approve <u>Form 2033</u> (rather than the FDAR or DA) for software applications where, <b>as determined by the FDAR or DA</b> , the FDAR or DA does not have the knowledge and/or a reasonable connection to the software.	Signature, Date  11/19/19

**Supporting Comments Continuation Page**


As needed, use this space to provide supporting comments. Provide the Form section number that corresponds to the comments.



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## Appendix C: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) for the MSGP Corrective Action Reporting Database

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		Reference No: _____	
		The Software Owner RLM must retain completed forms as a record. <b>Safety/Non-Safety Software Determination, Categorization, and Software Risk Level (SRL)</b> (See Page 5 for Guidance)	
<b>Part 1: Document the rationale supporting the reasonable probability that the software may be safety software, or risk significant software.</b>			
1.1 Excluding personal productivity software that does not provide calculation output (e.g., e-mail software, presentation software), indicate whether the software is or will be used in connection with the design, analysis and/or operation of: <ul style="list-style-type: none"> <li><input type="checkbox"/> a nuclear (including radiological) facility (Ref. <a href="#">LANL Nuclear Facility List</a>, <a href="#">Conduct of Operations Resources Website</a>), or</li> <li><input type="checkbox"/> an accelerator, live-firing range, biological hazard facility, high explosive facility, or moderate- or high- chemical hazard facility as determined using <a href="#">SBP111-1</a>, <i>Facility Hazard Categorization and Documentation</i>; or</li> <li><input type="checkbox"/> LANL's Essential Functions as described in <a href="#">SEO-COOP-006</a>, <i>LANL NA-LA Continuity of Operations (COOP) Plan</i>.</li> </ul> Provide supporting comments (as necessary to document the selection above).			
<b>Part 2: Document the software information, software application(s) and software function(s). A separate form may be used for each software item or one form may be used for multiple software items.</b>			
2.1 Provide software name(s). MSGP Corrective Action Reporting Database and corresponding APEX administrative module	2.2 Provide software version(s). Oracle Fusion Middleware Forms Services 12C and Oracle APEX	2.3 Indicate software owner (SO). Holly Wheeler	2.4 Indicate SO organization. SAE-4
2.5 Provide a description of the specific facility application(s) to sufficient detail to allow the software to be readily traceable to the point(s) of application within the facility. Include technical area (TA) and building number; or, site-wide or Facility Operating Directorate (FOD)-wide use. Add other descriptive information as required. The MSGP Corrective Action Reporting (CAR) Database and APEX are software tools used to facilitate the documentation, tracking, and closure of conditions requiring corrective action identified by MSGP Storm Water Permitting and Compliance or DESH personnel. These software tools can be used by anyone at LANL, associated with the MSGP Storm Water Program.			
2.6 Indicate System, Structure or Components (SSCs) controlled or affected by the software. Indicate NA if not applicable. N/A			
2.6.1 Provide SSC name(s). N/A			
2.6.2 Provide functional requirement(s) of the software associated with the SSC. N/A			
2.6.3 Provide reference document(s) describing the SSC/software. N/A			
Provide supporting comments (as required). N/A			
2.7 Indicate facility classification ( <a href="#">SBP111-1</a> ), design, or analysis controlled or affected by the software. Indicate NA if not applicable. N/A			
2.7.1 Provide facility classification, design or analysis name. N/A			
2.7.2 Provide software functional requirement(s) associated with the facility classification, design or analysis. N/A			
2.7.3 Provide reference document(s) describing the facility classification, design, or analysis. N/A			
Provide supporting comments (as required). N/A			

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## Appendix C: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) for the MSGP Corrective Action Reporting Database (cont.)

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2.8	Indicate the hazard control, Safety Management Program (SMP) and/or technical safety requirements (TSRs) controlled or affected by the software. Indicate NA if not applicable. N/A
2.8.1	Provide the hazard control, SMP and/or TSR name. N/A
2.8.2	Provide the software functional requirement(s) for the hazard control, SMP and/or TSR. N/A
2.8.3	Provide reference document(s) describing the hazard control, SMP and/or TSR. N/A
	Provide supporting comments (as required). N/A

<b>Part 3: Determine whether the software type is (1) safety software; or (2) non-safety software and the associated category for each type.</b>	
3.1 Check <b>one</b> of the following (3.1.1 through 3.1.5) to determine one of the two software types (safety software or non-safety software) and one of the associated 5 categories for each type (i.e. Categories include SSS, SHADS or SMACS for safety software; and, Risk Significant or Commercially Controlled for non-safety software).	
<b>Note:</b> If software is determined to be safety software or risk significant software, complete all parts of this form. If software is determined to be commercially controlled software, complete all parts of this form <b>except for Part 4</b> .	
3.1.1 Safety software: SSS <input type="checkbox"/>	This is software for a nuclear (including radiological) facility that performs, or will perform a safety function as part of a Structure, System, and Component (SSC) and is cited in either (a) a Department of Energy (DOE)-approved documented safety analysis; or, (b) an approved hazard analysis per <a href="#">DOE P 450.4A, Integrated Safety Management Policy</a> and <a href="#">48 Code of Federal Regulations (CFR) 970.5223-1, Integration of Environment, Safety, and Health into Work Planning and Execution</a> . This is safety software and is categorized as Safety System Software (SSS). Provide supporting comments (as required).
3.1.2 Safety software: SHADS <input type="checkbox"/>	This is software that is used, or will be used to classify, design, or analyze nuclear (including radiological) facilities. This software is not part of an SSC, but helps to ensure the proper accident or hazards analysis of nuclear (including radiological) facilities or an SSC that performs a safety function. This is safety software and is categorized as Safety and Hazard Analysis Software and Design Software (SHADS). Provide supporting comments (as required).
3.1.3 Safety software: SMACS <input type="checkbox"/>	<input type="checkbox"/> This is software that performs or will perform a hazard control function in support of nuclear (including radiological) facility radiological safety management programs (SMPs) or technical safety requirements (TSRs). This is safety software and is categorized as Safety Management and Administrative Controls Software (SMACS). Provide supporting comments (as required).
	<input type="checkbox"/> This is software that performs, or will perform a control function in support of a nuclear (including radiological) facility necessary to provide adequate protection from nuclear (including radiological) facility radiological hazards. It supports eliminating, limiting, or mitigating nuclear hazards to workers, the public, or the environment as addressed in <a href="#">10 CFR 830, Nuclear Safety Management</a> , <a href="#">10 CFR 835, Occupational Radiation Protection</a> , and the Department of Energy Acquisition Regulation (DEAR) Integrated Safety Management System (ISMS) clause <a href="#">48 CFR 970.5223-1, Integration of Environment, Safety, and Health into Work Planning and Execution</a> . This is safety software and is categorized as Safety Management and Administrative Controls Software (SMACS). Provide supporting comments (as required).
3.1.4 Non-safety software: Risk Significant <input type="checkbox"/>	This is software that is, or will be used for any of the purposes that safety software is used for only such purposes are in or for an accelerator, live-firing range, biological hazard facility, high explosive facility, or moderate- or high- chemical hazard facility OR, failure of the software would <u>prevent</u> LANL from performing Essential Functions as described in <a href="#">SEO-COOP-006, LANL NA-LA Continuity of Operations (COOP) Plan</a> . This is non-safety software and is categorized as Risk Significant software. Provide supporting comments (as required).



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## Appendix C: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) for the MSGP Corrective Action Reporting Database (cont.)

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<b>3.1.5</b> Non-safety software: Commercially Controlled <input checked="" type="checkbox"/>	<p>This is software that is not, or will not be used for any of the above purposes in 3.1.1–3.1.4. Such software may be acquired (including commercial off the shelf (COTS)) or designed software. Examples of this software include personal productivity software (e.g., Microsoft PowerPoint, Oracle Project Primavera, MS Outlook, etc.) and other types of software (e.g., some business accounting systems, facility personnel comfort temperature monitoring systems). This is non-safety software and is categorized as Commercially Controlled software. Proceed to <b>Part 5</b>. Part 4 is not required.</p> <p>Provide supporting comments (as required).</p> <p>The MSGP CAR Database and APEX are software tools used to track corrective actions from initiation to closure. All approved user interactions and software-related activities are controlled through approved procedures (most directly through EPC-CP-QP-022). While the approved/authorized use of these software items are important to completion of program goals, their use is not consistent with any of the purposes described above in 3.1.1 – 3.1.4. Various LANL Nuclear Facility Documented Safety Analyses (DSAs) mention Quality Improvement within the Quality Assurance (QA) Safety Management Program (SMP). CARs are an important element of any such process within the QA SMP; however, LANL facility DSAs do not explicitly credit any such CAR process or tool (including software) for providing a hazard control function. The failure, modification, or misuse of these software items may cause MSGP program-level complications, delays, or operational issues (e.g. delay or additional effort required to status and close CA items); however, it is extremely unlikely that such an event would adversely effect a facility SSC Safety Function (per 3.1.1), a SSC design analysis (per 3.1.2), an administrative control function (per 3.1.3) as described in any LANL facility DSA, or an COOP Essential Function (per 3.1.4). As such, the MSGP CAR Database and APEX software items are considered Non-Safety/Commercially Controlled software.</p>
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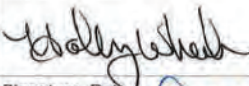


<b>Part 4: Determine the Software Risk Level (SRL).</b>	
<b>4.1</b> Complete this section for safety software and risk significant software only. Do not complete this section for commercially controlled software. Check <b>only one</b> of the following to determine the SRL. Text shown in <i>[brackets]</i> is applicable to safety software only.	
<b>SRL 1</b> <input type="checkbox"/>	<b>4.1.1</b> This level includes software applications that meet one or more of the following criteria. Failure of the software could: <ul style="list-style-type: none"> <li>▪ <i>[Compromise a limiting condition for operation].</i></li> <li>▪ <i>[Cause a reduction in the safety margin for a safety SSC that is cited in a DOE approved documented safety analysis.]</i></li> <li>▪ Cause a reduction in the safety margin for other systems such as toxic or chemical protection systems that are cited in either (a) a DOE approved documented safety analysis or (b) an approved hazard analysis per <a href="#">DOE P 450.4A</a>, <i>Integrated Safety Management Policy</i>, and the DEAR ISMS clause (<a href="#">48 CFR 970.5223-1</a>, <i>Integration of Environment, Safety, and Health into Work Planning and Execution</i>).</li> <li>▪ Result in non-conservative safety analysis, design, or misclassification of facilities or SSCs.</li> </ul> <p>Provide supporting comments (as required).</p>
<b>SRL 2</b> <input type="checkbox"/>	<b>4.1.2</b> This level includes <i>[safety]</i> software applications that do not meet SRL 1 criteria, but meet one or more of the following criteria: <ul style="list-style-type: none"> <li>▪ <i>[Safety management databases used to aid in decision making whose failure could impact safety SSC operation.]</i></li> <li>▪ Software failure that could result in incorrect analysis, design, monitoring, alarming, or recording of hazardous exposures to workers or the public.</li> <li>▪ <i>[Software failure could compromise the defense-in-depth capability for a nuclear (including radiological) facility.]</i></li> </ul> <p>Provide supporting comments (as required).</p>
<b>SRL 3</b> <input type="checkbox"/>	<b>4.1.3</b> This level includes software applications that do not meet SRL 2 criteria, but meet one or more of the following criteria. Failure of the software could: <ul style="list-style-type: none"> <li>▪ Cause a potential violation of regulatory permitting requirements.</li> <li>▪ Affect environment, safety, health monitoring, or alarming systems.</li> <li>▪ Affect the safe operation of an SSC.</li> </ul> <p>Provide supporting comments (as required).</p>

<b>Part 5: Attest to compliant completion, review and approve. A signature is required in 5.1, 5.2 and 5.3 for all completed 2033 Forms.</b>
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**Appendix C: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL)  
(Form 2033) for the MSGP Corrective Action Reporting Database (cont.)**

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<p>5.1 As the Software Owner (SO), I have determined the software type, category, and as appropriate, SRL, in accordance with <a href="#">P1040, Software Quality Management</a> and the instructions associated with this form.</p> <p>Provide Name/Z No. (print) Holly Wheeler, 118432</p>	<p>Signature, Date</p> <p> 11/06/2019</p>
<p>5.2 As the Software Owner Responsible Line Manager (SO RLM or SRLM), I have reviewed and approve the determination of the software type, category and, as appropriate, SRL for the software as described on this form.</p> <p>Provide Name/Z No. (print) Tania Van Valkenburg, 45666</p>	<p>Signature, Date</p> <p> 11/6/2019</p>
<p>5.3 As the <input checked="" type="checkbox"/> <a href="#">Facility Design Authority Representative</a> (FDAR) for my representative facilities, as the <input type="checkbox"/> LANL Design Authority (DA), or, as the <input type="checkbox"/> Responsible Associate Laboratory Director (RALD), I have reviewed and approve the determination of the software type, category and, as appropriate, SRL for the software as described on this form. Check one.</p> <p>Provide Name/Z No. (print) Jason Apperson, 222827</p> <p><b>Note:</b> The RALD is authorized to review and approve <a href="#">Form 2033</a> (rather than the FDAR or DA) for software applications where, <b>as determined by the FDAR or DA</b>, the FDAR or DA does not have the knowledge and/or a reasonable connection to the software.</p>	<p>Signature, Date</p> <p> 11/19/19</p>


**Supporting Comments Continuation Page**

As needed, use this space to provide supporting comments. Provide the Form section number that corresponds to the comments.



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**Appendix D: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL)  
(Form 2033) for Maintenance Connection and Maintenance Connection Express**  
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 <p><b>Los Alamos</b> NATIONAL LABORATORY EST. 1943</p>	Reference No: _____	<b>Form 2033</b>  <i>The Software Owner RLM must retain completed forms as a record.</i>
<b>Safety/Non-Safety Software Determination, Categorization, and Software Risk Level (SRL)</b> (See Page 5 for Guidance)		

<b>Part 1: Document the rationale supporting the reasonable probability that the software may be safety software, or risk significant software.</b>			
1.1 Excluding personal productivity software that does not provide calculation output (e.g., e-mail software, presentation software), indicate whether the software is or will be used in connection with the design, analysis and/or operation of: <div style="margin-left: 20px;"> <input type="checkbox"/> a nuclear (including radiological) facility (Ref. <a href="#">LANL Nuclear Facility List</a>, <a href="#">Conduct of Operations Resources Website</a>), or  <input type="checkbox"/> an accelerator, live-firing range, biological hazard facility, high explosive facility, or moderate- or high- chemical hazard facility as determined using <a href="#">SBP111-1</a>, <i>Facility Hazard Categorization and Documentation</i>; or  <input type="checkbox"/> LANL's Essential Functions as described in <a href="#">SEQ-COOP-006</a>, <i>LANL NA-LA Continuity of Operations (COOP) Plan</i>.         </div> Provide supporting comments (as necessary to document the selection above).			
<b>Part 2: Document the software information, software application(s) and software function(s). A separate form may be used for each software item or one form may be used for multiple software items.</b>			
2.1 Provide software name(s). Maintenance Connection and Maintenance Connection Express	2.2 Provide software version(s). N/A	2.3 Indicate software owner (SO). Terrill Lemke (user)	2.4 Indicate SO organization. EPC-CP (user org.)
2.5 Provide a description of the specific facility application(s) to sufficient detail to allow the software to be readily traceable to the point(s) of application within the facility. Include technical area (TA) and building number; or, site-wide or Facility Operating Directorate (FOD)-wide use. Add other descriptive information as required. Maintenance Connection and Maintenance Connection Express are software items used by EPC-CP and DESH personnel associated with Storm Water Programs. They are COTS items used to track work activities conducted by the MSGP Storm Water Permitting and Compliance Team.			
2.6 Indicate System, Structure or Components (SSCs) controlled or affected by the software. Indicate NA if not applicable. N/A			
2.6.1 Provide SSC name(s). N/A			
2.6.2 Provide functional requirement(s) of the software associated with the SSC. N/A			
2.6.3 Provide reference document(s) describing the SSC/software. N/A			
Provide supporting comments (as required). N/A			
2.7 Indicate facility classification ( <a href="#">SBP111-1</a> ), design, or analysis controlled or affected by the software. Indicate NA if not applicable. N/A			
2.7.1 Provide facility classification, design or analysis name. N/A			
2.7.2 Provide software functional requirement(s) associated with the facility classification, design or analysis. N/A			
2.7.3 Provide reference document(s) describing the facility classification, design, or analysis. N/A			
Provide supporting comments (as required). N/A			

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**Appendix D: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL)  
(Form 2033) for Maintenance Connection and Maintenance Connection Express (cont.)**

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2.8	Indicate the hazard control, Safety Management Program (SMP) and/or technical safety requirements (TSRs) controlled or affected by the software. Indicate NA if not applicable. N/A
2.8.1	Provide the hazard control, SMP and/or TSR name. N/A
2.8.2	Provide the software functional requirement(s) for the hazard control, SMP and/or TSR. N/A
2.8.3	Provide reference document(s) describing the hazard control, SMP and/or TSR. N/A
	Provide supporting comments (as required). N/A

<b>Part 3: Determine whether the software type is (1) safety software; or (2) non-safety software and the associated category for each type.</b>	
3.1 Check <b>one</b> of the following (3.1.1 through 3.1.5) to determine one of the two software types (safety software or non-safety software) and one of the associated 5 categories for each type (i.e. Categories include SSS, SHADS or SMACS for safety software; and, Risk Significant or Commercially Controlled for non-safety software).	
<b>Note:</b> If software is determined to be safety software or risk significant software, complete all parts of this form. If software is determined to be commercially controlled software, complete all parts of this form <b>except for Part 4</b> .	
3.1.1 Safety software: SSS <input type="checkbox"/>	This is software for a nuclear (including radiological) facility that performs, or will perform a safety function as part of a Structure, System, and Component (SSC) and is cited in either (a) a Department of Energy (DOE)-approved documented safety analysis; or, (b) an approved hazard analysis per <a href="#">DOE P 450.4A, Integrated Safety Management Policy</a> and <a href="#">48 Code of Federal Regulations (CFR) 970.5223-1, Integration of Environment, Safety, and Health into Work Planning and Execution</a> . This is safety software and is categorized as Safety System Software (SSS).  Provide supporting comments (as required).
3.1.2 Safety software: SHADS <input type="checkbox"/>	This is software that is used, or will be used to classify, design, or analyze nuclear (including radiological) facilities. This software is not part of an SSC, but helps to ensure the proper accident or hazards analysis of nuclear (including radiological) facilities or an SSC that performs a safety function. This is safety software and is categorized as Safety and Hazard Analysis Software and Design Software (SHADS).  Provide supporting comments (as required).
3.1.3 Safety software: SMACS <input type="checkbox"/>	<div> <div><input type="checkbox"/></div> <div>This is software that performs or will perform a hazard control function in support of nuclear (including radiological) facility radiological safety management programs (SMPs) or technical safety requirements (TSRs). This is safety software and is categorized as Safety Management and Administrative Controls Software (SMACS).  Provide supporting comments (as required).</div> </div> <div> <div><input type="checkbox"/></div> <div>This is software that performs, or will perform a control function in support of a nuclear (including radiological) facility necessary to provide adequate protection from nuclear (including radiological) facility radiological hazards. It supports eliminating, limiting, or mitigating nuclear hazards to workers, the public, or the environment as addressed in <a href="#">10 CFR 830, Nuclear Safety Management</a>, <a href="#">10 CFR 835, Occupational Radiation Protection</a>, and the Department of Energy Acquisition Regulation (DEAR) Integrated Safety Management System (ISMS) clause 48 <a href="#">CFR 970.5223-1, Integration of Environment, Safety, and Health into Work Planning and Execution</a>. This is safety software and is categorized as Safety Management and Administrative Controls Software (SMACS).  Provide supporting comments (as required).</div> </div>
3.1.4 Non-safety software: Risk Significant <input type="checkbox"/>	This is software that is, or will be used for any of the purposes that safety software is used for only such purposes are in or for an accelerator, live-firing range, biological hazard facility, high explosive facility, or moderate- or high- chemical hazard facility OR, failure of the software would <u>prevent</u> LANL from performing Essential Functions as described in <a href="#">SEO-COOP-006, LANL NA-LA Continuity of Operations (COOP) Plan</a> . This is non-safety software and is categorized as Risk Significant software.  Provide supporting comments (as required).



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## Appendix D: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) for Maintenance Connection and Maintenance Connection Express (cont.)

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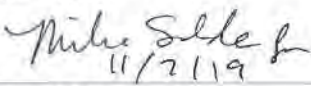


<p>3.1.5 Non-safety software: Commercially Controlled <input checked="" type="checkbox"/></p>	<p>This is software that is not, or will not be used for any of the above purposes in 3.1.1–3.1.4. Such software may be acquired (including commercial off the shelf (COTS)) or designed software. Examples of this software include personal productivity software (e.g., Microsoft PowerPoint, Oracle Project Primavera, MS Outlook, etc.) and other types of software (e.g., some business accounting systems, facility personnel comfort temperature monitoring systems). This is non-safety software and is categorized as Commercially Controlled software. Proceed to <b>Part 5</b>. Part 4 is not required.</p> <p>Provide supporting comments (as required).</p> <p>Maintenance Connection and Maintenance Connection Express are COTS items, which have been configured for use in tracking work activities for the MSGP Storm Water Permitting and Compliance Team. All approved user interactions are controlled through approved procedures (QPa). Software-related activities are controlled through the contract LANL has with Maintenance Connection. While the approved/authorized use of these software items is important to completion of program goals, their use is not consistent with any of the purposes described above in 3.1.1 - 3.1.4. Various LANL Nuclear Facility Documented Safety Analyses (DSAs) make mention of Storm Water Monitoring and/or Sampling as part of the Hazardous Material Protection Program (HIMPP) Safety Management Plan; however, all such discussion are limited to general facility permitting requirements, and do not mention an specific methods or tools (including software) used by the MSGP Storm Water Permitting and Compliance Team to complete the associated permitting activities. A failure, modification, or misuse of these software items may cause MSGP program-level complications, delays, or operational issues (e.g. work planning issues); however, it is extremely unlikely that such an event would adversely effect a facility SSC Safety Function (per 3.1.1), a SSC design analysis (per 3.1.2), an administrative control function (per 3.1.3) as identified in any LANL facility DSA, or a COOP Essential Function (per 3.1.4). As such, the Maintenance Connection and Maintenance Connection Express software items are considered Non-Safety/Commercially Controlled software.</p>
---	--

<b>Part 4: Determine the Software Risk Level (SRL).</b>	
4.1 Complete this section for safety software and risk significant software only. Do not complete this section for commercially controlled software only. Check <b>only one</b> of the following to determine the SRL. Text shown in <b>[brackets]</b> is applicable to safety software only.	
<p>SRL 1 <input type="checkbox"/></p>	<p>4.1.1 This level includes software applications that meet one or more of the following criteria. Failure of the software could:</p> <ul style="list-style-type: none"> <li>▪ <b>[Compromise a limiting condition for operation].</b></li> <li>▪ <b>[Cause a reduction in the safety margin for a safety SSC that is cited in a DOE approved documented safety analysis.]</b></li> <li>▪ Cause a reduction in the safety margin for other systems such as toxic or chemical protection systems that are cited in either (a) a DOE approved documented safety analysis or (b) an approved hazard analysis per <a href="#">DOE P 450.4A</a>, <i>Integrated Safety Management Policy</i>, and the DEAR ISMS clause <a href="#">(48 CFR 970.5223-1, Integration of Environment, Safety, and Health into Work Planning and Execution)</a>.</li> <li>▪ Result in non-conservative safety analysis, design, or misclassification of facilities or SSCs.</li> </ul> <p>Provide supporting comments (as required).</p>
<p>SRL 2 <input type="checkbox"/></p>	<p>4.1.2 This level includes <b>[safety]</b> software applications that do not meet SRL 1 criteria, but meet one or more of the following criteria:</p> <ul style="list-style-type: none"> <li>▪ <b>[Safety management databases used to aid in decision making whose failure could impact safety SSC operation.]</b></li> <li>▪ Software failure that could result in incorrect analysis, design, monitoring, alarming, or recording of hazardous exposures to workers or the public.</li> <li>▪ <b>[Software failure could compromise the defense-in-depth capability for a nuclear (including radiological) facility.]</b></li> </ul> <p>Provide supporting comments (as required).</p>
<p>SRL 3 <input type="checkbox"/></p>	<p>4.1.3 This level includes software applications that do not meet SRL 2 criteria, but meet one or more of the following criteria. Failure of the software could:</p> <ul style="list-style-type: none"> <li>▪ Cause a potential violation of regulatory permitting requirements.</li> <li>▪ Affect environment, safety, health monitoring, or alarming systems.</li> <li>▪ Affect the safe operation of an SSC.</li> </ul> <p>Provide supporting comments (as required).</p>

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**Appendix D: Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL)  
(Form 2033) for Maintenance Connection and Maintenance Connection Express (cont.)**

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<b>Part 5: Attest to compliant completion, review and approve. A signature is required in 5.1, 5.2 and 5.3 for all completed 2033 Forms.</b>	
<p>5.1 As the Software Owner (SO), I have determined the software type, category, and as appropriate, SRL, in accordance with P1040, <i>Software Quality Management</i> and the instructions associated with this form.</p> <p>Provide Name/Z No. (print) Terrill Lemke, 120092</p>	<p>Signature, Date</p> <p> 11/2/19</p>
<p>5.2 As the Software Owner Responsible Line Manager (SO RLM or SRLM), I have reviewed and approve the determination of the software type, category and, as appropriate, SRL for the software as described on this form.</p> <p>Provide Name/Z No. (print) Taunin Van Valkenburg, 145666</p>	<p>Signature, Date</p> <p> 11/2/19</p>
<p>5.3 As the <input checked="" type="checkbox"/> Facility Design Authority Representative (FDAR) for my representative facilities, as the <input type="checkbox"/> LANL Design Authority (DA), or, as the <input type="checkbox"/> Responsible Associate Laboratory Director (RALD), I have reviewed and approve the determination of the software type, category and, as appropriate, SRL for the software as described on this form. Check one.</p> <p>Provide Name/Z No. (print) Jason Apperson, 222827</p> <p><b>Note:</b> The RALD is authorized to review and approve Form 2033 (rather than the FDAR or DA) for software applications where, as determined by the FDAR or DA, the FDAR or DA does not have the knowledge and/or a reasonable connection to the software.</p>	<p>Signature, Date</p> <p> 11/19/19</p>

**Supporting Comments Continuation Page**

As needed, use this space to provide supporting comments. Provide the Form section number that corresponds to the comments.



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### 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, <i>Integrated Safety Management System Description</i> ; PD100, <i>DOE/NNSA Approved Los Alamos National Laboratory</i> ; 10 CFR 851, <i>Worker Safety and Health Program</i>	EPC-CP organization chart; EPC-DO-QP-100; EPC-CP-IWD-2102
CRD Attach. 2, 2. Criterion 2 – Management/Personnel Training and Qualification	PD781, <i>Training Program Management</i> ; P1040, <i>Software Quality Management</i>	EPC-CP-QAP-001; EPC-CP Manager Qualification Standard EPC-CP Group Qualification Standard EPC-CP-QS-2005; EPC-CP-QS-2006; EPC-CP-QS-2007
CRD Attach. 2, 3. Criterion 3 – Management/Quality Improvement	P101-18, <i>Procedure for Pause/Stop Work</i> ; PD322-4, <i>Issues Management</i> ; PD324, <i>LANL Metrics Program</i> ; P330-6, <i>Nonconformance Control and Reporting</i>	EPC-CP-QAP-001
CRD Attach. 2, 4. Criterion 4 – Management/Document and Records	PD1020, <i>Document Control and Records Management</i>	ADESH-QAP-001; ADESH-AP-006; ESH-AP-007; EPC-CP-QP-0901
CRD Attach. 2, 5. Criterion 5 – Performance/Work Processes	SD100, <i>Integrated Safety Management System Description Document with embedded 10 CFR 851 Worker Safety and Health Program</i> ; PD100, <i>DOE/NNSA Approved Los Alamos National Laboratory</i> ; 10 CFR 851 <i>Worker Safety and Health Program Description</i> ; P151-1, <i>LANL Packaging and Transportation Program Procedure</i> ; PD311, <i>Requirements System and Hierarchy</i> ;	EPC-CP-PIP-2101, <i>NPDES Multi-Sector General Permit Program Implementation Plan</i> ; EPC-CP-TP-2102, <i>Installing, Setting Up, and Operating ISCO Samplers</i> ; EPC-CP-TP-2103, <i>Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples</i> ; EPC-CP-QP-2104, <i>Installing, Inspecting, and Maintaining MSGP Single Stage Samplers</i>

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<b>Summary of QA Requirements and Program-Level (Local) Work Practices</b>		
<b>DOE Order 414.1D / SD 330 Requirements</b>	<b>LANL Work Practice</b>	<b>Local Implementing Procedure or QAP section (if applicable)</b>
	SD330, <i>Los Alamos National Laboratory Quality Assurance Program</i> ; PD340, <i>Conduct of Engineering for Facility Work</i> ; P315, <i>Conduct of Operations Manual</i> ; P330-2, <i>Control and Calibration of Measuring and Test Equipment (M&amp;TE)</i> ; SD601, <i>Conduct of Research and Development</i> ; PD781, <i>Training Program Management</i> P1040, <i>Software Quality Management</i>	EPC-CP-QP-2105, <i>MSGP Stormwater Visual Assessments</i> ; EPC-CP-QP-2106, <i>Processing MSGP Stormwater Samples</i> ; EPC-CP-QP-2107, <i>Preparing Discharge Monitoring Reports for the NPDES Multi-Sector General Permit</i> ; EPC-CP-QP-2108, <i>MSGP Routine Facility Inspections</i> ; EPC-CP-QP-022, <i>MSGP Corrective Actions</i> ; EPC-CP-QP-2110, <i>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</i> EPC-CP-QP-2111, <i>Per- and Polyfluoroalkyl Substances (PFAS) Sampling for EPC-CP Surface Water Programs</i>
CRD Attach. 2, 6. Criterion 6 – Performance/Design	<u>For Facility Work:</u> PD340, <i>Conduct of Engineering and Configuration Management for Facility Work</i> ; P341, <i>Facility Engineering Processes Manual</i> ; P342, <i>Engineering Standards</i> ; Engineering Standards Manual; Functional Series documents; Engineering Administrative Procedures <u>For R&amp;D:</u> PD370, <i>Conduct of Engineering for Research and Development (R&amp;D)</i>	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 2, 7. Criterion 7 – Performance/Procurement	P840-1, <i>Quality Assurance for Procurements</i> <sup>1</sup>	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 2, 8. Criterion 8 – Performance/Inspection and Acceptance Testing	P330-8, <i>Inspection and Test</i> <sup>3</sup> ; P330-2, <i>Control and Calibration of Measuring and Test Equipment (M&amp;TE)</i>	No local implementing procedures, LANL Work Practices apply.

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<b>Summary of QA Requirements and Program-Level (Local) Work Practices</b>		
<b>DOE Order 414.1D / SD 330 Requirements</b>	<b>LANL Work Practice</b>	<b>Local Implementing Procedure or QAP section (if applicable)</b>
CRD Attach. 2, 9. Criterion 9 – Assessment/Management Assessment	PD328, <i>LANL Assessment Program</i> ; P328-3, <i>Management Assessment</i> ; P328-4, <i>Management Observation and Verification</i>	ADESH-QAP-001 EPC-CP-QAP-001
CRD Attach. 2, 10. Criterion 10 – Assessment/Independent Assessment	PD328, <i>LANL Assessment Program</i> ; P328-2, <i>Independent Assessment</i> ; P328-4, <i>Management Observation and Verification</i>	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 3, Suspect/Counterfeit Items Prevention	P330-9, <i>Suspect/Counterfeit Items (S/CI)</i> <sup>1</sup>	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 4, Safety Software Quality Assurance Requirements for Nuclear Facilities <sup>2</sup>	P1040, <i>Software Quality Management</i> <sup>2</sup> ; Form 2033, <i>Safety Non-Safety Software Determination, Categorization, and Software Risk Level</i>	No local implementing procedures, LANL Work Practices apply.
<sup>1</sup> 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, <i>Quality Assurance for Procurements</i> , and P330-9, <i>Suspect/Counterfeit Items (S/CI)</i> . <sup>2</sup> DOE Order 414.1D, Chg 1, <i>Quality Assurance</i> , 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, <i>Software Quality Management</i> , for additional detail. <sup>3</sup> For ML-4 items and activities, inspections and tests are performed to extent required by the applicable codes and/or standards. <sup>4</sup> Core work practices applicable to R&D are described in SD601, <i>Conduct of Research and Development</i> .		

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## Attachment 2: MSGP Facilities Associated with Industrial Activities

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<b>MSGP Facilities Associated with Industrial Activities</b>						
<b>Location</b>	<b>Permitted Facility</b>	<b>Operation</b>	<b>Activity</b>	<b>Sector</b>	<b>Assessment Unit</b>	<b>Canyon</b>
TA-3-22	TA-3-22 Power and Steam Plant	Power Plant	Steam Electric Power	O	NM-9000.A_047	Sandia
TA-3-38	TA-3-38 Carpenter Shop	Timber Products	Fabricated wood products	A	NM-9000.A_047	Sandia
TA-3-38	TA-3-38 Metals Fab Shop	Metal Shop	Fabricated metal products	AA	NM-9000.A_047	Sandia
TA-16	Stockpile Area	Materials Storage	Materials Storage	P	NM-128.A_01	Canyon de Valle
TA-60	TA-60 Asphalt Batch Plant	Asphalt Batch Plant	Asphalt paving	D	NM-9000.A_042	Mortandad
TA-60	TA-60 MRF	Materials Recycling Facility	Scrap recycling	N	NM-9000.A_047	Sandia
TA-60	TA-60 Roads and Grounds	Roads and Grounds Facility	Vehicle maintenance and storage	P	NM-9000.A_042 NM-9000.A_047	Mortandad Sandia
TA-60-1	TA-60-1 Heavy Equipment Yard	Motor Pool	Vehicle maintenance	P	NM-9000.A_047	Sandia
TA-60-2	TA-60-2 Warehouse	Warehousing	Vehicle fueling	P	NM-9000.A_047	Sandia



**ATTACHMENT 16: EPC-CP-QP-2108, *MSGP ROUTINE FACILITY INSPECTIONS***

<b>EPC-CP-QP-2108</b>	Revision: <b>0</b>	
Effective Date: 07/09/2020	Next Review Date: 07/09/2023	

**Environment, Safety, Health, Quality, Safeguards, and Security 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: New EPC-CP format & numbering system

**Safety Basis:**    ☒ N/A            ☐ USQ            ☐ USI Number: \_\_\_\_\_

**Document Author/Subject Matter Expert:**

Name:	Organization:	Signature:	Date:
Holly L. Wheeler	EPC-CP	Signature on File	07-08-20

**Derivative Classifier:**    ☒ **Unclassified** or ☐ \_\_\_\_\_

Name:	Organization:	Signature:	Date:
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Taunia Van Valkenburg, Group Leader	EPC-CP	Signature on File	07-09-20

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#### REVISION HISTORY

<b>Document Number and Revision</b> <i>[Include revision number, beginning with Revision 0]</i>	<b>Effective Date</b> <i>[Document Control Coordinator inserts effective date]</i>	<b>Description of Changes</b> <i>[List specific changes made since the previous revision]</i>
EPC-CP-QP-023 R0	05/17/2018	New Document. Process formerly part of procedure ENV-RCRA-QP-022 R2, <i>MSGP Corrective Actions</i> .
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.

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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-022, *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 in order 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 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 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 the inspection.)

### 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.

## 2.0 ROLES AND RESPONSIBILITIES

Specific roles and responsibilities for implementation of requirements contained in this procedure are provided below.

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## 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 are 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 Best Management Practices (BMPs));
- Training personnel to use MC Express;
- Performing a quality review of routine facility inspections and “no exposure” site inspections; and
- Assisting customers with issues associated with MC Express.

## 2.2 Deployed Environmental Professionals

DEPs are responsible for the following:

- Implementing this procedure;
- Knowledgeable of the requirements contained in site-specific SWPPPs within their assigned Facility Operations Directorate (FOD);
- Meeting qualification requirements identified in the Quality Assurance Project Plan EPC-CP-PIP-2101, NPDES *Multi-Sector General Permit Program Implementation Plan*;
- Being trained on EPC-CP-QP-022, *MSGP Corrective Actions*;
- Being trained to *MSGP Routine Inspections OJT*;
- 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;

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- 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 accurately;
- Acting as liaison between the FOD, Deployed Environment, Safety, and Health (DESH) Manager 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 BMPs have been installed or old BMPs 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 to implement the regulatory requirements identified in the MSGP. The Group Leader or Team Lead also acts 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.

### **2.5 DESH Manager**

The DESH manager works with programmatic entities and the FOD to identify adequate resources for their industrial facilities to ensure permit requirements can be implemented. The DESH Manager is responsible for the performance of DEPs under their management and to ensure DEPs are trained and qualified. They also provide oversight by ensuring that industrial facilities complying with the MSGP and will notify upper management of instances of non-compliance with the permit or other identified environmental risk.

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### 3.0 PRECAUTIONS AND LIMITATIONS

#### 3.1 Precautions

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 work order. 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.

#### 3.2 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” line to “Yes.” When using a hard copy form, mark the appropriate “Yes” or “No” check box.

Throughout this process, the field personnel will document comments and notations in the “Comments” field of the associated task line. If field personnel need more space, additional comments can be entered in the “Labor Report Update” field (see Section 5.2) 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 (MC) desktop software.

- The “Reading” field in MC Express is the same field as “Reading Final” in MC 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. MC desktop and hard copy (printed) work orders use “Yes” and “No” terminology.

Click the “Save” bar after all entries for a task line question have been completed and before proceeding to the next task line question. Failure to “Save” results in lost data entries.



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## 4.0 PREREQUISITE ACTIONS

### 4.1 Planning and Coordination

1. Schedule work to be completed by the target date appearing on the inspection form or as requested by the MSGP Program Lead if an inspection form is not issued.
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 Safari or Chrome web browser on a tablet or notebook style computer, 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.
5. 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.
6. Click on the “Tasks” bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
7. Always log out of MC Express 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 (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.)
- Copy of this procedure.
- Copy of facility specific SWPPP and map(s) (as needed).
- Current electronic or paper inspection form EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection*.
- LANL issued tablet or notebook style computer with Safari 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).
- Necessary access keys.

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## 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, some facilities may 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; and
- Control measures that need replacement, maintenance or repair.

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-022, *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 have to 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

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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 have to 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 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express. See Attachment 2 for an example of the inspection form in hard copy format. **Questions will be answered “Yes/Complete” or “No/Failed” unless the instructions specify “N/A” may also be used.**

**NOTE:** Each item number listed in red font below corresponds to a red numbered box on both screenshots and hard copy format.

- [1] **ITEM 1:** Observe the weather at time of inspection. Document the weather and temperature in the “Comments” field of the task line (e.g., Temp. 78°F, sunny, wind less than 5mph).
- [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 “Comments” field of the task line.
- [3] **ITEM 3:**  
IF the response to **ITEM 2** is “Yes”,  
THEN answer this task line as “N/A”.  
OR  
IF the response to **ITEM 2** is “No”,  
THEN answer this task line 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 “Comments” field of the task line.
- [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 “Comments” field of the task line.
- [6] **ITEM 6:** Check the outfall does not have any **new** evidence of erosion **since the last inspection**. Describe any erosion observed in the “Comments” field of the task line.

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- [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 “Comments” field of the task line (e.g., repair berm, replace rip rap, etc.).
- [8] **ITEM 8:** Check the outfall is free of evidence of pollutants in the discharge and/or the receiving water. Describe any pollutants observed in the “Comments” field of the task line (e.g., sediment from nearby erosion, etc.).
- [9] **ITEM 9:** Check the outfall is free of unauthorized non-stormwater discharges. Describe any unauthorized discharges observed in the “Comments” field of the task line (e.g., street sweeper emptied contents at Outfall 001, etc.).
- [10] Repeat Steps 6 through 9 for each outfall shown on the work order, if the location has more than one outfall.
- [11] **ITEM 10:** 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 “Comments” field of the task line.
  - [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.
- [12] Repeat Step 11 for each control measure shown on the work order, if the location has more than one control measure.
- [13] **ITEM 11:** Check each sector of NPDES specified industrial area/activity is inspected for exposure to stormwater (e.g., metal fabrication; foundry operations; power generation; asphalt production; fabricating timber products; 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 “Comments” field of the task line.
  - [c] For industrial activities that do not occur at the facility, select “N/A” on that task line.
- [14] Repeat Step 13 for each industrial area/activity shown on the work order, if the facility has more than one sector of NPDES specified industrial area/activity.





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- [15] **ITEM 12:** Check the facility is free of any incidence of non-compliance not documented elsewhere on the inspection form. Describe any additional incidences of non-compliance in the “Comments” field of the task line.
- [16] **ITEM 13:** Check the facility meets the MSGP requirements with existing control measures. Describe any additional control measures needed to comply with the Permit.
- [17] After all task lines have been completed, make sure you have clicked the “Save” bar at the bottom of the page.

## 5.2 Completing the Inspection Form

See Attachment 1 for completing EPC-CP-QP-2108 R0 Form 1 in MC Express and Attachment 2 for a hard copy example.

- [1] Ensure the inspection form has been filled out completely.
- [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 14:** 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 that is auto-populated are the date and time that the **work was completed** and **not the date/time the form was filled out**.
  - [b] IF work needs to be 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 15:** 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 “Comments” field can be documented in the “Labor Report Update” field.


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- [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 16:** 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 write in the date of when the form was signed.
  - [c] By electronically signing the work order, field personnel certifies that the information submitted is “true, accurate, and complete.”
- [8] Click on the “Save” bar at the bottom of the page to close the “Signature” field.

### 5.3 Completing the Certification Statement

Follow Steps 1 through 5 in this section if the inspection form was completed electronically (see Attachment 1). If the inspection form was completed on a hard copy form, skip to Step 6.

- [1] Using the Chrome web browser on a desktop computer, navigate to <http://www.maintenanceconnection.com>. Log into the MC desktop application using your login credentials.
- [2] Click “Open” in the tool bar at the top of the page to open the MC module selections. Click on the “Work Orders” module.
- [3] Click on the “Search” tab at the top left of the page.
  - [a] Enter the work order number in the “Search Value” field.
  - [b] Click the arrow to the right of the “Search Value” field to open the work order in the right split screen.
- [4] Click on the “Report” tab at the top of the page and click the “Work Order Statement” sub-tab.
- [5] Click the Tools drop down menu  in the top right corner of the page.
  - [a] Select “Print” from the options.
  - [b] When the print dialog box opens, select the print options as appropriate for your local printer.
- [6] **ITEM 17:** Obtain a printed 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.**

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- [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, DSESH Group Leader, EPC-CP Group Leader, EPC-CP Team Lead).
- [b] The manager is certifying the information submitted is “true, accurate, and complete” by signing the inspection form.
- [7] Attach the completed, signed, and certified inspection form to the facility SWPPP.
- [8] Submit a copy of the completed form to the MSGP Program Lead.

## 6.0 TRAINING

The following personnel require training before implementing this procedure.

- DESH Group and Team Leaders
- EPC-CP MSGP stormwater compliance personnel
- DEPs
- Other personnel identified as being required to conduct stormwater assessments 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 as assigned and documented in accordance with ADOSH-TTP-301, *ADESH Training Program Plan*.

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 Inspection forms are signed and certified by individual LANL facilities. These completed 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.

Below are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
EPC-CP-QP-2108 R0 Form 1, <i>MSGP Routine Facility Inspection</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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## 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 BMP or other method (including 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
EPC-CP	Environmental Protection and Compliance – Compliance Programs
DEP	Deployed Environmental Professional
DESH	Deployed Environment, Safety, and Health
FOD	Facility Operations Director
LANL	Los Alamos National Laboratory
MC	Maintenance Connection
MC Express	Maintenance Connection Express
MSGP	Multi-Sector General Permit
NPDES	National Pollutant Discharge Elimination System
SWPPP	Stormwater Pollution Prevention Plan

## 9.0 REFERENCES

Federal Register, Final National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Activities. Federal Register: June 16, 2015, Volume 80, Number 115.

Los Alamos National Laboratory Storm Water BMP Manual

## 10.0 ATTACHMENTS

**Attachment 1:** Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express

**Attachment 2:** EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* Hard Copy Example



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## Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection in MC Express*

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Work Order Tasks Page (Section 5.1, Steps 1-5)

The screenshot displays the 'MC Express' mobile application interface for a work order. At the top, the title bar shows 'MC Express' and a menu icon. Below the title bar, the work order number 'WORK ORDER: MSGP-RI-52112' is displayed. The main section is titled 'Tasks' and contains a list of tasks. The first task is 'Weather Information' with a flag icon and a red box containing the number '1'. The description is 'Describe the weather at time of inspection and document the temperature (F°)'. Below this, the section 'Within the Facility Boundary' is shown. It contains four tasks, each with a flag icon and a red box containing a number: '2' (Is the facility free of previously unidentified discharges...), '3' (If "No" has a CAR been previously initiated...), '4' (Is the facility free of discharge of pollutants...), and '5' (Is the facility free of evidence of, or the potential for, pollutants entering the drainage system...). Each task has a download icon to its right. At the bottom, there is a blue bar with a 'Refresh' button, a grid icon, and a 'List' button.

Work Order Tasks Page (Section 5.1, Steps 6-9)

The screenshot displays the 'MC Express' mobile application interface for a work order. At the top, the title bar shows 'MC Express' and a menu icon. Below the title bar, the work order number 'WORK ORDER: MSGP-RI-52112' is displayed. The main section is titled 'Tasks' and contains a list of tasks. The first task is 'Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)' with a flag icon and a red box containing the number '6'. Below this, there are four more tasks, each with a flag icon and a red box containing a number: '7' (Flow Dissipation Devices Operating Effectively?), '8' (Free of Evidence of Pollutants in Discharges and/or Receiving Water?), '9' (Free of any unauthorized non-stormwater discharges?), and '10' (Free of Evidence of Erosion?). Each task has a download icon to its right. At the bottom, there is a blue bar with a 'Refresh' button, a grid icon, and a 'List' button.

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**Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express (cont.)**

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Work Order Tasks Page (Section 5.1, Step 11)

MC Express

WORK ORDER: MSGP-RI-52112

Tasks

**Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).**

180  
Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.  
Asset: [0300503040002] Asphalt Berm

190  
Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.  
Asset: [0300504060001] Rip Rap

200  
Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.  
Asset: [0300503200004] EnviroSoxx w/ MetalLoxx

Refresh List

Work Order Tasks Page (Section 5.1, Step 13)

MC Express

WORK ORDER: MSGP-RI-52112

Tasks

**Area/Activity exposed to stormwater (identify needed maintenance 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.

Refresh List

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**Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express (cont.)**

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Work Order Tasks Page (Section 5.1, Steps 15 and 16)

MC Express

WORK ORDER: MSGP-RI-52112

Tasks

**Non-Compliance**

400

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

**Additional Control Measures**

420

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

Refresh List

Work Order Status Update Page (Section 5.2, Steps 4-6)

MC Express

WORK ORDER: MSGP-RI-52112

Status Update

Issued / Completed

New Status 14

Completed

Date

1/23/2019 10:39 AM

Percent Complete 100%

Labor Report Update 15

Select Comments to Add.....

Jane Doe

Cancel Save

Work Order Status Update Page (Section 5.2, Step 7)

MC Express

WORK ORDER: MSGP-RI-52112

Status Update

Signature 16

(Remove)

Jane Doe

Cancel Save



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**Attachment 2: MSGP Routine Facility Inspection Hard Copy Example, EPC-CP-QP-2108 R0 Form 1**  
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## Los Alamos National Laboratory

**Work Order MSGP-RI-52112**

MSGP Routine Inspection  
Printed 1/23/2019 - 12:45 PM (Duplicate Copy)

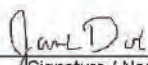
Maintenance Details	
<b>Requested By:</b> Admin, Jane on 1/23/2019 12:30:00 PM	<b>Target:</b> 12/31/2020
<b>Taken By:</b> Banar, Alethea	<b>Priority/Type:</b> / Inspection
<b>Procedure:</b> MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)	<b>Department:</b> Utilities and Infrastructure
<b>Last PM:</b> N/A	<b>Contact:</b> Admin, Jane <b>Phone:</b> 123-4567
<b>Reason:</b> Example MSGP Routine Facility Inspection	

Tasks		Meas.	No	N/A	Yes
<b>#</b>	<b>Description</b>				
<b>1</b>	<b>Weather Information</b>				
20	Describe the weather at time of inspection and document the temperature (F°).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>Within the Facility Boundary</b>				
<b>2</b>	40 Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3</b>	50 If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4</b>	60 Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5</b>	70 Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>				
<b>6</b>	90 <b>Monitored Outfall [074]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7</b>	100 <b>Monitored Outfall [074]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>8</b>	110 <b>Monitored Outfall [074]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9</b>	120 <b>Monitored Outfall [074]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	130 <b>Substantially Identical Outfall [073]</b> Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	140 <b>Substantially Identical Outfall [073]</b> Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	150 <b>Substantially Identical Outfall [073]</b> Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	160 <b>Substantially Identical Outfall [073]</b> Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10</b>	<b>Control Measures (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>				
	180 <b>Asphalt Berm [0300503040002]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	190 <b>Rip Rap [0300504060001]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	200 <b>EnviroSoxx w/ MetalLoxx [0300503200004]</b> Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>11</b>	<b>Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).</b>				
	220 Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	230 Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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**Attachment 2: MSGP Routine Facility Inspection Hard Copy Example, EPC-CP-QP-2108 R0 Form 1**  
**(cont.)**  
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240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
380	<b>Sector A [03005-] Wood processing, transport or treated wood storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Non-Compliance</b>				
12	400 Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Additional Control Measures</b>				
13	420 Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Labor Report</b>				
14	<b>Completed:</b> 1/23/2019 10:39:00 AM			
15	<b>Report:</b> [Additional notes, observations, or site conditions not documented in Task Line Comments field]			
Jane Doe				
16		1/23/2019		
Signature / Name		Date	Signature / Name	Date
I confirm the information as recorded is true, accurate and complete.				

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**Attachment 2: MSGP Routine Facility Inspection Hard Copy Example, EPC-CP-QP-2108 R0 Form 1  
(cont.)**  
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**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)

**17** Print name and title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**ATTACHMENT 17: EPC-CP-QP-022, *MSGP CORRECTIVE ACTIONS***

**EPC-CP-QP-022**Revision: **3**

Effective Date: 12/20/2018

Next Review Date: 12/20/21



**Environment, Safety, Health, and Quality, Safeguards and Security Directorate**  
**Environmental Protection and Compliance Division – Compliance Programs**  
**Quality Procedure**

## **MSGP Corrective Actions**

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### Revision History

<b>Document Number and Revision</b> <i>[Include revision number, beginning with Revision 0]</i>	<b>Effective Date</b> <i>[Document Control Coordinator inserts effective date]</i>	<b>Description of Changes</b> <i>[List specific changes made since the previous revision]</i>
0	08/10	New Document.
1	11/10	Incorporated EPC-CP-QP-062 <i>MSGP Routine Inspections</i> into this document.
2	01/13	Biennial revision, new template implemented.
EPC-CP-QP-022 R3	12/202018	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.

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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 Environmental Protection and Compliance Division – Compliance Programs (EPC-CP) Storm Water Team (also referred to as EPC-CP MSGP stormwater personnel) are required to perform routine facility inspections and document all conditions requiring corrective actions found on an inspection form (see EPC-CP-QP-023). 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 at Los Alamos National Laboratory (LANL) involved in identifying, implementing, documenting and entering a condition requiring corrective action, including a permit limit exceedance, into the MSGP Corrective Action Report (CAR) Findings database or CAR database. Part 4.4 of the MSGP contains specific documentation requirements relative to corrective actions. 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 the 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

- 2.1 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).
- 2.2 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).



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### **3.0 PREREQUISITE ACTIONS**

#### **3.1 Planning and Coordination**

DEPs and EPC-CP MSGP stormwater personnel require a CAR database user account ([https://msgp-car.lanl.gov/forms/frmservlet?config=msgp\\_car](https://msgp-car.lanl.gov/forms/frmservlet?config=msgp_car)). Facility Operations Directors (FODs), Deployed Environment, Safety, and Health (DESH) Managers and Operations (Ops) 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:

- LANS issued 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 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 (some sites require steel or composite toed shoes).
- Safety glasses if required by site.
- Cell phone (only government cell phones with batteries removed are allowed in secure areas.) See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements on using portable electronic devices 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 stormwater controls (Best Management Practices [BMPs], 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 will be fully knowledgeable of the specific regulatory requirements identified in the MSGP. Additional responsibilities are listed below.

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- Implement this procedure;
- Oversee the corrective action process;
- Identify 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 exceedance notification 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 water quality 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. In addition, they shall be appropriately trained to meet the job qualifications identified in the *Quality Assurance for Stormwater Multi-Sector General Permit for Industrial Activities Program* (ENV-CP-QAPP-MSGP) and shall be familiar with the regulatory requirements identified in the MSGP, demonstrated by achieving a satisfactory score on the *MSGP Routine Facility Inspections* on-the-job training course #53040. Further, they shall be familiar with facility operations and controls to minimize potential pollutant sources and proactively maintain controls 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 liaison between the FOD, DESH Manager and facility/operations personnel to ensure all corrective actions are addressed appropriately by overseeing maintenance and/or installation of additional controls, as needed. DEPs are responsible for ensuring corrective action(s) is completed per MSGP requirements and the corrective action timeline (see Sections 5.2.1 and 5.2.2 of this procedure). They will 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 are responsible for identifying the source and maintaining existing controls or implementing additional controls, as necessary, to prevent further exceedances.

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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](#).

DEPs will notify the EPC-CP MSGP data administrator or MSGP Program Lead of key personnel changes (FOD, DESH Manager, Ops Manager, DEP) to ensure automated CAR status notifications are distributed to the appropriate personnel.

#### **CAUTION**

##### **Failure to appropriately control pollutant discharges can result in fines and penalties.**

Implementing the same control measure 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 identified in the MSGP. Per the MSGP, documentation is required in the SWPPP that justified the selection, design, installation and implementation of a control measure to ensure effluent limits are met.

#### **4.3 EPC-CP Storm Water Team Leader**

The EPC-CP Storm Water 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. 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 will notify 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 also acts as the duly authorized signatory that certifies the Annual Report or Routine Facility Inspections conducted by EPC-CP personnel. The group leader will notify upper management of instances of non-compliance with the permit or other identified environmental risk.

#### **4.5 DESH Manager**

The DESH Manager shall work with programmatic entities and the FOD to identify resources for their industrial sites to ensure permit requirements can be implemented. The DESH Manager is responsible for the performance of DEPs under their management. They also provide oversight for ensuring that industrial sites are complying with the MSGP and are responsible for notifying upper management of instances of non-compliance with the permit or other identified environmental risk they become aware of.

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#### 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. It is the FOD's responsibility to maintain trained and qualified DEPs and Waste Management Coordinators (WMCs) on staff.

### 5.0 PROCESS DESCRIPTION

Requirements regarding corrective actions are described in Part 4 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

##### Deployed Environmental Professional (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:
- 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]);
  - An inspection or evaluation of the facility by an EPA official and/or local or State entity, determines that modification to the control measures are necessary to meet the non-numeric effluent limits in the MSGP;
  - 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;
  - 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;
  - The average of four quarterly sampling results exceeds an applicable benchmark. 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., if the sum of quarterly sample results to date is more than four times the benchmark level) this is considered a benchmark exceedance;
  - If effluent limitation guidelines are exceeded at the Asphalt Batch Plant (Sector D); or
  - If impaired water quality standards are exceeded.



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#### **DEP and/or EPC-CP MSGP stormwater personnel**

- [2] Enter all conditions requiring a corrective action into the EPC-CP MSGP CAR database.

#### **DEP and/or Facility Personnel**

- [3] Take immediate action to mitigate the condition requiring a corrective action.
- [4] If needed, follow the permit timeline and process for individual corrective actions that require extensive maintenance.
- [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.

### **5.2 Corrective Action Deadlines and Documentation**

Specific deadlines for taking corrective action and required documentation are provided in the subsections below.

#### **5.2.1 Immediate Action**

#### **DEP and/or Facility Personnel**

- [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] All reasonable steps necessary to minimize or prevent the discharge of pollutants 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.
  - [c] Minimize or prevent the discharge of pollutants until a permanent solution (if necessary) is installed and made operational.
  - [d] Any corrective action resulting in a change to a stormwater control or procedure (documented in the SWPPP) requires modification of the SWPPP within 14 calendar days of completing corrective action work.

#### **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 work day when it is too late to initiate corrective action (i.e., 3:00 pm or later), **THEN**:

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- [a] Corrective action must begin no later than the following work day.
- [b] Implement the requirements identified in Section 5.2.1 [1] above.

#### **CAUTION**

Solely calling or e-mailing personnel requesting 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 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**

- [1] **IF** additional action is required,  
**THEN:**
  - [a] 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.
  - [b] Any corrective action resulting in a change to a stormwater control or procedure documented in the SWPPP requires modification of the SWPPP within 14 calendar days of completing corrective action work.
- [2] **IF** completion of the corrective action is infeasible within the 14-day timeframe,  
**THEN:**
  - [a] Document the reasoning in the database.
  - [b] Provide a schedule for completion of the corrective action in the database.

#### **NOTE**

Completion of the corrective action cannot exceed 45 days from the time of discovery without having to notify EPA. These time intervals are not grace periods, but are schedules considered reasonable for documenting finding(s) 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 are not allowed to persist indefinitely. In no instance will the corrective action remain open indefinitely (Part 4.3.2 of the MSGP).

### **5.2.3 Corrective Action Documentation**

#### **DEP and/or EPC-CP**

- [1] Document existence of any of the conditions listed in Section 5.1 [1] of this procedure in the CAR database within 24 hours of becoming aware of such condition (or if identified late in the work day, by the following work day).

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[2] Include the following information in the documentation:

- Description of the condition triggering the need for corrective action review. For any spills or leaks, include the following information:
  - a description of the incident including material, date/time, amount, location, and reason for spill;
  - any leaks, spills or other releases that resulted in discharges of pollutants to waters of U.S., through stormwater or otherwise;
- Date the condition was identified; and
- Description of immediate actions taken (Part 4.3.1 of the MSGP) to minimize or prevent the discharge of pollutants. For any spills or leaks, include response actions, the date/time clean-up was completed, notifications made (if any), and staff involved. Also include any measures taken to prevent the reoccurrence of such releases (Part 2.1.2.4 of the MSGP).

[3] Provide the dates when each corrective action was initiated and completed (or is expected to be completed).

- [a] If applicable, document why it is infeasible to complete the necessary installations or repairs within the 14-day timeframe, and
- [b] Document your schedule for installing the controls and making them operational as soon as practicable after the 14-day timeframe.
- [c] **IF** EPA must be notified regarding an extension of the 45-day timeframe, **THEN** the DEP must document the rationale for an extension.

#### **EPC-CP MSGP stormwater personnel**

[4] Prepare and submit 45-day exceedance notifications based on information entered into the CAR database by the DEPs.

#### **DEP**

[5] Ensure that the information in the CAR database is kept up-to-date, to include the following:

- [a] a thorough description of the nature of the condition requiring corrective action,
- [b] corrective action(s) taken and/or outstanding,
- [c] the steps and schedule for completing a corrective action (if not completed within 14 days), and
- [d] rationale for why the corrective action cannot be completed within 45-days.

### **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

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violation. Additionally, failing to take corrective action in accordance with Part 4 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 4.5 of the MSGP).

#### **5.4 Substantially Identical Outfalls**

When the condition requiring corrective action is associated with an outfall that has been identified as a “substantially identical outfall” (see Parts 3.2.3 and 6.1.1 of the MSGP), a review will assess the need for corrective action for all related substantially identical outfalls. Any necessary changes to control measures that affect these other outfalls 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 Part 4.3 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 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 drainage;
- Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
- Pavement wash waters where no detergents or hazardous cleaning products are 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 5.2.3 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



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material and sweeping, using hydrophobic mops/rags) and you have implemented appropriate control measures to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement);

- Routine external building 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);
- Uncontaminated ground water or spring water;
- Foundation of footing drains where flows are not contaminated with process materials; and
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown or drains).

## 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 will be used to populate a report that will be 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 internet explorer, access the CAR database at [https://msgp-car.lanl.gov/forms/frmservlet?config=msgp\\_car](https://msgp-car.lanl.gov/forms/frmservlet?config=msgp_car).
- [2] From the main screen, click on “Enter New Corrective Action.”
  - [a] Select the “Corrective Action Header” tab.
  - [b] 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 “List” tab and selecting a facility (refer to Attachment 2 for a list of available facilities).
    - **Item 2:** Date/Time problem was identified (mm/dd/yyyy hh:mm) (*the inspection date or the date you first become aware of the issue*).

There must be a space between the date (mm/dd/yyyy) and the 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

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this procedure for corrective action deadlines). Do not leave time as 00:00 (the system default) unless the action occurred at midnight.

- **Item 3:** 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.)*

The existence of any of the conditions listed in Section 5.1 of this procedure must be documented in the CAR database within 24 hours of becoming aware of such condition (or if identified late in the work day, by the following work day).

- **Item 4:** FOD Responsible for CA (Name & Org) by clicking in the box. FOD designations (for example “STO”) and the associated name list will pop up. Select the appropriate FOD.

Contact the EPC-CP MSGP Program Lead at 667-1312 or [hbenson@lanl.gov](mailto:hbenson@lanl.gov) if the FOD name or organization is incorrect, so this can be corrected.

- **Item 5:** Describe Specific Evaluation Location (for example, “Northeast corner of Building TA-3-66.”)
- **Item 6:** Inspector Z-Number by clicking in the box, which will populate with the Z number of the person who is logged into the database and performing entry. In most instances, the DEP will be identified as the inspector.
- **Item 7:** Person Identifying Condition Z-Number by clicking in the box, which will populate with the Z number of the person who is logged into the database and performing entry. If the person identifying the condition is someone other than the inspector, enter that person’s Z-number.

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:** 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 of the above information is entered correctly, click “Save” and go to Step 3.

All boxes identified with a red asterisk are “required fields” meaning the form cannot be saved unless these fields are completed. For the purpose of fulfilling

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corrective action documentation requirements (see Section 5.2.3 of this procedure), all applicable fields are required fields.

The system will automatically assign a Corrective Action Report identification (ID) number and move to the “Corrective Action Details” tab.

[c] Select the “Corrective Action Details” tab.

[d] Enter the following:

- **Item 11:** Identify the condition triggering the need for this review by clicking on the “List” button and selecting the appropriate condition or, if none of the available conditions fit the issue, selecting “Other” and entering a description of the condition (refer to Attachment 2 for a list of available conditions/finding descriptions).

These conditions are described in Section 5.1 of this procedure. 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](mailto:hbenson@lanl.gov) for clarification prior to selecting “Other.”

- **Item 12:** If the condition in Item 11 is set to “Other,” enter a description of the condition in this field.
- **Item 13:** Briefly describe the nature of the problem identified during the inspection (e.g., erosion, damage to a BMP, 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 Parts 4.1 and 4.2 of the MSGP) will require documentation in the CAR database even though the condition was not identified during an inspection.

- **Item 14:** Enter how the problem was identified by clicking on the “List” button and selecting the appropriate option, or if none of the available options fit, selecting “Other.”
- **Item 15:** If “Other” is selected for Item 14, enter a description of how the problem was identified in this field.
- **Item 16:** 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 17:** Indicate whether the problem was identified at a Substantially Identical Outfall (see Section 5.4 of this procedure) by typing “Y” for yes and “N” for no.

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- **Item 18:** If the answer to Item 17 is “Y,” enter the associated SIO(s) in this field. If the answer to Item 17 is “N,” leave this field blank. SIOs are identified in the site-specific SWPPPs. For assistance with identifying SIOs contact the MSGP Program Lead.
- **Item 19:** If the answer to Item 17 is “Y,” describe how the corrective action taken is appropriate for all SIOs (see Section 5.4 of this procedure), document any additional corrective action(s) needed for any of the SIOs, or document why no additional action is needed for the SIOs. If the answer to Item 17 is “N,” leave this field blank.
- **Item 20:** Did/will the corrective action require modification to the SWPPP? Type in “Y” for yes and “N” for no (see Section 5.1 of this procedure for conditions that require SWPPP review and revision).
- **Item 21:** 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, will be documented in accordance with permit requirements.
- **Item 22:** Date/Time corrective action was completed **OR** expected completion Date/Time (mm/dd/yyyy hh:mm).  
If the corrective action has not been completed, enter an expected completion date and time. 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, and to forecast where a 45-day exceedance notification to EPA is required (see Section 5.2.3 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 23:** If the corrective action is not or will not be completed within 14 days, provide the status of the corrective action at the end of the 14 day timeframe, the rationale for why it is infeasible to complete the corrective action within 14 days, and describe any remaining steps (including timeframe/schedule associated with each step) necessary to complete the corrective action.
- **Item 24:** Date EPA 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 25:** Once all of the above information is entered correctly, click “Save” so the corrective action information is retained.



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- [3] **IF** there are additional conditions to enter requiring corrective action, as described in Section 5.1 [1],  
**THEN** perform these steps:
  - [a] Return to the “Corrective Action Header” tab.
  - [b] Click the “Enter New Corrective Action” button in the lower left hand corner of the screen.
  - [c] Click “Back to Record Selection” to return to the list of saved conditions requiring corrective action on the initial screen (if desired).

## 5.8 Updating Corrective Actions

### DEP or EPC-CP MSGP stormwater personnel

- [1] Access the CAR database at [https://msgp-car.lanl.gov/forms/frmservlet?config=msgp\\_car](https://msgp-car.lanl.gov/forms/frmservlet?config=msgp_car).
  - [a] On the main screen, scroll down to the corrective action number to be edited.
  - [b] Click “Edit.”
- [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 “Save” to save all changes to the information.

## 5.9 Validation of Corrective Actions

### EPC-CP MSGP stormwater personnel

- [1] Access the CAR database at [https://msgp-car.lanl.gov/forms/frmservlet?config=msgp\\_car](https://msgp-car.lanl.gov/forms/frmservlet?config=msgp_car).
- [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 “Status,” select “Void.”
  - [b] The “Void” designation allows MSGP stormwater personnel to manually exclude this information in the annual report.

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### 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 water quality standard.
- Exceedance of an effluent limitation (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 being 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** send the following information to the EPC Division IMC for entry into the IM tool:
- Organization responsible for the issue/problem;
  - A description of the nature of the condition identified and what needs to be done to address it;
  - Regulatory citation for the non-compliance;
  - Issues Responsible Manager (IRM);
  - Action, actionee, and due date for each issue; and
  - Whether the issue was identified internal or external to LANL.

### 5.11 Notifications for New and Overdue Corrective Actions

- [1] When a new condition requiring corrective action is entered into the CAR database, the FOD, Ops Manager, DESH 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 will be sent during the corrective action process depending on the length of time it will take to close.
- [3] A notification will be sent out:

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- When a new corrective action is entered into the database (see Attachment 3); and
- Weekly notifications of outstanding (open) corrective actions (see Attachment 4).

Each notification contains a hyperlink 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 FOD, Facility, unique Corrective Action identification number assigned by the CAR database, the person identifying the condition, the date the issue was identified, the date corrective action was initiated, the projected completion date, and a color-coded count (corresponding to the Corrective Action deadlines in Section 5.2 of this procedure) of the number of days to take action and the number of days the issue has been open, and the issue/problem description.

These notifications serve to apprise recipients of the status of open conditions requiring corrective actions and to provide sufficient time for MSGP stormwater personnel to provide documentation to EPA at the 45-day deadline. This will assist the FOD, DESH Managers, Ops Managers, and the DEPs 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.

For EPC-CP MSGP stormwater personnel, the training method for this procedure is “self-study” (reading). DEPs shall achieve a satisfactory score on Training Course 53040, *MSGP Routine Facility Inspections OJT*. Other participating groups may require training documentation pursuant to local procedures.

Personnel performing this procedure will be familiar with the most current version of the following procedure:

- [ENV-CP-QAPP-MSGP, Multi-Sector General Permit for Industrial Activities Program](#)

## 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.

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## 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-2 of the MSGP).

**Note:** Exceedance of a numeric effluent limitation is a violation of the MSGP (see Part 4.1 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.

**Impaired water quality exceedance**—Exceedance of a New Mexico water quality standard. These standards are specified in the New Mexico Administrative Code, Title 20, Chapter 6, Part 4, *Standards for Interstate and Intrastate Surface Waters*.

**Note:** Industrial stormwater discharges must be controlled as necessary to meet applicable water quality standards within the State of New Mexico (see Part 2.2.1 of the MSGP).

### 8.2 Acronyms

See LANL *Acronym Master List*.

BMP	Best Management Practice
CA	Corrective Action
CAR	Corrective Action Report
EPA	Environmental Protection Agency



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EPC-CP	Environmental Protection and Compliance-Compliance Programs
DEP	Deployed Environmental Professional
DESH	Deployed Environmental, Safety and Health
ID	Identification
IM	Issues Management
IMC	Issues Management Coordinator
IRM	Issues Responsible Manager
IWD	Integrated Work Document
FOD	Facility Operations Director
FSR	Facility Service Request
HEY	Heavy Equipment Yard
LANL	Los Alamos National Laboratory
MSGP	Multi-Sector General Permit
N	No
NPDES	National Pollutant Discharge Elimination System
Ops	Operations
P	Procedure
PD	Program Description
QA	Quality Assurance
QP	Quality Procedure
SD	System Description
STO	Science and Technology Operations
SWPPP	Stormwater Pollution Prevention Plan
40 CFR	Title 40 of the Code of Federal Regulations
WMC	Waste Management Coordinator
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.
- [Unites States Environmental Protection Agency \(EPA\) National Pollutant Discharge Elimination System \(NPDES\) Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity \(MSGP\)](#)
- [Los Alamos National Laboratory Storm Water BMP Manual](#)

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- [PD100, DOE/NNSA Approved Los Alamos National Laboratory 10 CFR 857 Worker Safety and Health program Description](#)
- [SD100, Integrated Safety Management System](#)
- [P101-18, Procedure for Pause/Stop Work](#)
- [EPC-CP-QP-023, MSGP Routine Facility Inspections](#)

## **10.0 ATTACHMENTS**

**Attachment 1:** Screenshot Example of CAR Database

**Attachment 2:** Lists 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

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## Attachment 1 – Screenshot Example of CAR Database

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### Corrective Action Header tab

MSGP\_CORRECTIVEACTIONREPORT

Corrective Action Header    Corrective Action Details

---

**NPDES MSGP CORRECTIVE ACTION REPORT**      Id. Number : 1150      (Assigned by computer)

1 \* Name of Facility : TA-60-1 Heavy Equipment Yard      List

2 \* Date problem was identified : 05/19/2017 09:00      Date of Notification to EPC-CP : 05/19/2017 12:00      3

4 \* FOD Responsible for CA (Name & Org) : UI      Erickson Andrew W

5 Describe Specific Evaluation Location : Trench drain east of the high bay that drains to the oil water separ

6 \* Inspector Z-Number : 123456      Doe, Jane      EPC-CP

7 \* Person Identifying Condition Z-Number : 123456      Doe, Jane      EPC-CP

Date Format Must be entered as MM/DD/YYYY HH24:MI

8 Status: 1      A new corrective action ?      Annual Report ID (s):

9 Void Comments:     

\* required fields

10

Enter New Corrective Action      Back To Record Selection      Save      Cancel

Prev Rec.      Next Rec.      Print Summary



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## Attachment 1 – Screenshot Example of CAR Database (cont.)

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### Corrective Action Details tab

Action Edit Query Block Record Field Help Window

MSGP\_CORRECTIVEACTIONREPORT

Corrective Action Header Corrective Action Details

\*3. Identify the condition triggering the need for this review: If other, (describe here):

11 Control measures not properly operated or maintained List 12

\*4. Briefly describe the nature of problem identified: (e.g., Erosion problem identified during inspection).

13 The trench drain east of the high bay at TA-60 HEY that drains to an oil/water separator was not draining during a precipitation event. This is a repeat issue that was previously identified on 3/22/2017 (see CAR #1067), when discharge resulted in an oily sheen at SIO 025.

\*6. How problem was identified: If other, (describe here):

14 Other (describe) : List During monitoring after a storm event 15

\*7. Description of corrective action taken or to be taken to eliminate or further investigate the problem (e.g., describe modifications, repairs to control measures, analyses to be conducted, etc.) or if no modifications are needed, basis for that determination:

16 On 05/19/2017, HEY personnel pumped water from the trench drain into storage tanks to prevent overflow and release and removed sediment from the trench drain and placed into drums. An on-site supervisor submitted FSR to unclog the line was submitted. Documentation of actual maintenance done on the trench drain and oil/water separator is required to close this corrective action. Additional controls may need to be implemented.

17 8. Was the problem identified at an outfall that is Substantially Identical? Yes/No : Y

18 9. Which SIO Affected? 021, 023, 024, and 025

19 10. If yes, provide documentation of how corrective action taken is appropriate for all related SIOs:

5/19/2017: Temporarily pumping water will prevent discharge from reaching the SIOs. 6/5/2017: Unclogging the trench drain and maintenance on the oil/water separator will prevent unauthorized discharges such as oil.

20 \* 11. Did/will this corrective action require modification of your SWPPP ? Yes/No : Y

21 \* 12. Date corrective action initiated (MM/DD/YYYY HH24:MI): 05/19/2017 14:00 OR expected completion :

22 \* 13. Date corrective action completed (MM/DD/YYYY HH24:MI): 06/05/2017 16:00

23 14. If corrective action is not or will not be completed within 14 days of discovery, describe any remaining steps and the formal schedule necessary to complete the corrective action:

MSS and subcontractor are scheduled for 06/05/2017 AM to unclog trench drain and perform maintenance on the oil/water separator. Schedule exceeded 14 days due to no standing maintenance contract on the oil/water separator being in place. Standing maintenance contract is now in place.

24 15. Date EPA Notified of Intent to Exceed 45 Days (MM/DD/YYYY HH24:MI):

\* required fields

List Values Prev Rec. Next Rec. BackToRecordSelection 25 Save Cancel



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### **Attachment 1 – Screenshot Example of CAR Database (cont.)**

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#### **Full Text for Item 16: Description of Corrective Action Taken or to be Taken**

On 05/19/2017, HEY personnel pumped water from the trench drain into storage tanks to prevent overflow and release. Sediment was also removed from the trench drain and placed into drums. An on-site supervisor submitted an FSR to unclog the line. Documentation of actual maintenance done on the trench drain and oil/water separator is required to close this corrective action. Additional controls may need to be implemented until maintenance is complete to ensure that oil is not discharged into the drainage channel north of the site. In addition, the SWPPP must be modified to identify the preventative maintenance schedule and include the procedure for conducting it. On 05/30/2017, the SWPPP was modified to include a quarterly maintenance schedule and a procedure for routine maintenance on the oil/water separator. On 06/05/2017, MSS jet-routed the drain to remove the clog and a subcontractor performed maintenance on the oil/water separator.

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## Attachment 2 – Lists of Limited Values in the CAR Database

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**Name of Facility (*Item 1 on Attachment 1 Screenshot*)**

Valid MSGP Facilities

Find: TA-%

Msgp_Facility_Desc
TA-14-23 OBOD
TA-15-185 PHERMEX
TA-15-313 Machine Shop
TA-16-0388 Burning Ground
TA-16-0399 Burning Ground
TA-22-52 Machine Shop
TA-3-22 Power & Steam Plant
TA-3-30 Warehouse
TA-3-32 Metal Shop
TA-3-34 Metal Shop
TA-3-38 Carpenter Shop
TA-3-38 Metals Fab. Shop
TA-3-39 & 102 Metal Shop
TA-3-66 Sigma Facility
TA-33-113 Machine Shop
TA-33-39 Machine Shop
TA-35-125 Machine Shop
TA-35-2 Machine Shop
TA-36-8 Minie
TA-39-57 OBOD
TA-39-6 OBOD
TA-46-31 Machine Shop
TA-46-77 Machine Shop
TA-48-8 Machine Shop
TA-50-37 WCRRF
TA-50-54 Metal Shop
TA-50-69 WCRRF
TA-53-16 Machine Shop
TA-53-18 Machine Shop
TA-53-2 Machine Shop
TA-53-22 Machine Shop
TA-53-26 Machine Shop
TA-53-39 Shop and Storage Building
TA-54 Area G
TA-54 Area L
TA-54 Maintenance Facility W
TA-54 RANT
TA-55 Plutonium Facility
TA-55-314 Warehouse
TA-60 Asphalt Batch Plant
TA-60 MRF
TA-60 Roads and Grounds
TA-60-1 Heavy Equipment Yard
TA-60-2 Warehouse
TA-63 Transuranic Waste Facility
TA-9-28 Heavy Equipment Maintenance Operations Facility

Find OK Cancel

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## Attachment 2 – Lists of Limited Values in the CAR Database (cont.)

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### Finding Description/Condition Triggering Need for Review (*Item 11 on Attachment 1 Screenshot*)

Findings

Find %

**Finding\_Desc**

- Unauthorized release or discharge
- Numeric effluent limitation exceedance
- Control measures inadequate to meet non-numeric effluent limitations
- Control measures not properly operated or maintained
- Change in facility operations necessitated change in control measures
- Average benchmark value exceedance
- Other (describe) :
- Impaired water quality exceedance

Find OK Cancel

### Inspection Type/How Problem was Identified (*Item 14 on Attachment 1 Screenshot*)

How was problem identified :

Find %

**Inspection\_Type\_Desc**

- Quarterly visual assessment
- Routine facility inspection
- Benchmark monitoring
- Impaired waters monitoring
- Effluent limitation guidelines monitoring
- Other (describe) :

Find OK Cancel

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### Attachment 3 – Example New Corrective Action Finding Notification

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**From:** MSGPCorrectiveActionDB@esp-esh-as01.lanl.gov [mailto:MSGPCorrectiveActionDB@esp-esh-as01.lanl.gov]

**Sent:** Friday, January 19, 2018 10:00 PM

**To:**

**Cc:**

**Subject:** New Corrective Action finding relative to the NPDES MSGP Program

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 2 P.M.), the initiation must begin no later than the following work day.

Documentation of newly identified conditions requiring corrective action must occur within 24 hours of discovery, evidenced by entry into the CAR database.

At TA-50-37 WCRRF on 01/17/18, a condition requiring a corrective action was observed and a corrective action report was generated per the 2015 Multi-Sector General Permit requirements for stormwater controls at industrial sites. The condition(s) requiring a corrective action(s) is/are listed below.

CA#: 1296 located at TA-50-37 WCRRF.

**Person Identifying Condition:** DOE JANE

**Description of finding:** Unauthorized release or discharge

**Condition requiring corrective action:** Forklift was leaking hydraulic fluid

**Description of the corrective action taken or to be taken to eliminate the condition or further investigation:** On 1/17/2018 prior to the start of work the operator noticed the forklift was leaking hydraulic fluid from the line to the mast. Approximately 4 to 6 oz leaked onto the asphalt. The Operation Center was notified and the WMC and ENV. The Nuc Operators placed spill pads under the leak. FSR#182723 was entered to repair forklift and apply microblaze. At 1702 MSS personnel applied micro blaze to the spill. On 1/18/2018 the WMC collected all spill pads and managed them accordingly.

**Status:** The corrective action was initiated on 01/17/2018 and was completed on 01/17/2018.

Click [HERE](#) to access the list of MSGP corrective action(s) not yet completed for EWMO.

Click [HERE](#) to access the list of all MSGP corrective action(s) not yet completed.

The ESH Deployed Environmental Professional (DEP) assigned to your organization/area is (are) Jane Doe.

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2015 MSGP:

**You must complete the corrective action within 14 calendar days of discovery.**

If completion of final corrective actions within 14 days is not feasible, the reason(s) must be documented and a description of steps required and formal schedule for completion, which must be done as soon as practicable after the 14-day timeframe, but not longer than 45 days after discovery. The reasons, steps and schedule for completion must be entered into the CAR database.

If the completion of corrective action will exceed the 45-day timeframe, you must take the minimum additional time necessary, provided that you notify Region 6 of the Environmental Protection Agency:

- 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 U.S. Environmental Protection Agency 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.



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## Attachment 4 – Example Weekly Notification of Outstanding Corrective Action Findings

Page 1 of 1

**From:** MSGPCorrectiveActionDB@esp-esh-as01.lanl.gov [mailto:MSGPCorrectiveActionDB@esp-esh-as01.lanl.gov]

**Sent:** Monday, January 01, 2018 10:00 PM

**To:**

**Cc:**

**Subject:** Weekly Notification of Outstanding NPDES MSGP Corrective Action finding(s)

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 2 P.M.), the initiation must begin no later than the following work day.

Documentation of newly identified conditions requiring corrective action must occur within 24 hours of discovery, evidenced by entry into the CAR database.

At TA-3-38 Carpenter Shop , 1 total MSGP stormwater corrective action(s) has (have) not been completed.

At TA-3-38 Metals Fab. Shop , 1 total MSGP stormwater corrective action(s) has (have) not been completed.

At TA-60-1 Heavy Equipment Yard , 7 total MSGP stormwater corrective action(s) has (have) not been completed.

At TA-60-2 Warehouse , 4 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 all MSGP corrective action(s) not yet completed.

The ESH Deployed Environmental Professional (DEP) assigned to your organization/area is (are) Jane Doe :John Doe.

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2015 MSGP:

**You must complete the corrective action within 14 calendar days of discovery.**

If completion of final corrective actions within 14 days is not feasible, the reason(s) must be documented and a description of steps required and formal schedule for completion, which must be done as soon as practicable after the 14-day timeframe, but not longer than 45 days after discovery. The reasons, steps and schedule for completion must be entered into the CAR database.

If the completion of corrective action will exceed the 45-day timeframe, you must take the minimum additional time necessary, provided that you notify Region 6 of the Environmental Protection Agency:

- 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 U.S. Environmental Protection Agency 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.

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## Attachment 5 – Example Outstanding Corrective Action Report

Page 1 of 1



EPC-CP MultiSector General Permit (MSGP)  
Corrective Action Report Findings  
Final Corrective Actions Not Yet Complete (as of 02/01/2018 )


FOD	RAD	MSGP Facility	CA#	Person Identifying Condition	Date Problem Identified	Corrective Action Initiated Date	Days to Take Action	Projected Completion Date	Projected Days until Completion	Days Open (since Discovery)	EPA Notified of Intent to Exceed 45 Days	Problem Description
UI	DOE JOHN	TA-3-38 Carpenter Shop	1298	DOE JANE	01/31/18		!	02/02/18	1	1		Tarp was totally torn off of the stack of metal posts at the southwest corner of the storage yard.
	DOE JOHN	TA-3-38 Metals Fab. Shop	1299	DOE JANE	01/31/18		!	02/02/18	1	1		A pile of gravel (from a torn gravel bag) is directly east of the trench drain.
Total Findings:											2	

Legend

!	Action must be taken and documented in CAR.	3	Indicates immediate action was not taken (i.e., <=2 days of discovery)
	Within 14 days of discovery		Between 35 and 44 days of discovery
	Between 15 and 34 days of discovery		45 days of discovery or greater

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**ATTACHMENT 18: EPC-CP-QP-2105, *MSGP STORMWATER VISUAL ASSESSMENTS***

<b>EPC-CP-QP-2105</b>	Revision: <b>0</b>	
Effective Date: 05/12/2020	Next Review Date: 05/12/2023	

**Environment, Safety, Health, Quality, Safeguards, and Security Directorate**  
**Environment 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: New EPC-CP format and numbering system

**Safety Basis:**      ☒ N/A                ☐ USQ                ☐ USI Number: \_\_\_\_\_

**Document Author/Subject Matter Expert:**

Name:	Organization:	Signature:	Date:
Holly L. Wheeler	EPC-CP	Signature on File	04-23-20

**Derivative Classifier:**    ☒ **Unclassified** or ☐ \_\_\_\_\_

Name:	Organization:	Signature:	Date:
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To document a required read, Login to [UTrain](#), and go to the Advanced Search.*



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#### REVISION HISTORY

<b>Document Number and Revision</b> <i>[Include revision number, beginning with Revision 0]</i>	<b>Effective Date</b> <i>[Document Control Coordinator inserts effective date]</i>	<b>Effective Date</b> <i>[Document Control Coordinator inserts effective date]</i>
ENV-RCRA-QP-064, R0	7/09	New document <i>MSGP Storm Water Visual Inspections</i> .
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.

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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 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, a foundry, a power plant, a material recycling facility and a carpenter shop. 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 must be collected from each discharge point covered by the MSGP and 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.

Visual assessments conducted under this procedure are 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 document the work.

### 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 outfalls.

A measurable storm event is identified in Section 6.1.3 of the MSGP as one “that results in an actual discharge from your site that follows the preceding measurable storm event by at least 72 hours (three days).”

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## 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 Division (FOD), an IWD Part II (2101 Form) will address any site-specific requirements and training for the FOD.

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 field work, document the conditions on the work order. 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” 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 4.3) 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 (MC) desktop software.

- The “Reading” field in MC Express is the same field as “Reading Final” in MC 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. MC desktop and hard copy (printed) work orders use “Yes” and “No” terminology.

## 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.



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2. As specified in the IWD Part II (if applicable), inform (e.g., by e-mail) facility contacts and/or Deployed Environmental Professional (DEP) of the schedule for work and locations up to a week (preferred) before but no later than the day before (for minor changes) so work is added to the appropriate plan of the day.
3. Gather the required equipment (see Section 3.2) for the work to be done.
4. Using the Safari or Chrome web browser on a tablet or notebook style computer, 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.
5. 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.
6. Click on the “Tasks” bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
7. Always log out of MC Express when you have finished work OR work is interrupted.

### **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 (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.)
- Current copy of this procedure
- Current copy of the IWD(s) Part II (as needed)
- Site map(s) (as needed)
- Current electronic work order or paper inspection form
- EPC-CP MSGP Sampling and Analysis Plan (SAP) most recent revision for the current monitoring year OR program specific monitoring plan
- Government issued electronic tablet with Safari web browser and Blackberry UEMTM app. (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property.)
- Necessary access and station keys

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- 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 R0 Form 1, *MSGP Visual Assessment* 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 and hard copy format.

##### 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 will be 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:** Document the monitoring period by entering Apr-May, Jun-Jul, Aug-Sep, or Oct-Nov.
  - [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.
- [3] **ITEM 2:** 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 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.
- [4] **ITEM 3:** 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 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.

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- [5] **ITEM 4:** 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.
- [6] **ITEM 5:** 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 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.
- [7] **ITEM 6:** Check 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 7:** Observe the color of the discharge in the sample container. Document by describing the color.
- [2] **ITEM 8:** Observe any odors detected from sample. Document by describing the odor (e.g., musty, sewage, sulfur, sour, solvents, petroleum/gas).
- [3] **ITEM 9:** 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 10:** Observe any floating solids in the discharge. Document by describing the floating solids.

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**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 11:** Observe any settled solids in the sample. Document by describing the settled solids (e.g., sediment, vegetation, fine, coarse).

**NOTE 3:** Settled solids may be an indicator of unstable ground cover combined with a high intensity stormwater runoff event.

- [6] **ITEM 12:** Observe any suspended solids in the sample. Document by describing the suspended solids (e.g., vegetation, ash, sediment, fine, coarse).

**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 13:** Check 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 Leader **immediately following completion of the visual assessment.**

[b] Follow-up action is required within 24 hours (see EPC-CP-QP-2109).

- [8] **ITEM 14:** Check 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 Leader **immediately following completion of the visual assessment.**

[b] Document in the Labor Report (**ITEM 17**) the source of the oil sheen, if existing BMPs are effective in mitigation of potential pollutants, and if a new BMP needs to be installed.

[c] Follow-up action is required within 24 hours (see EPC-CP-QP-2109).

- [9] **ITEM 15:** Check the discharge is free of any other indicators of stormwater pollution not described in any other task line above.

- [10] 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;



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- Indicate if there are Best Management Practices (BMPs) on site;
- Evaluate whether the BMPs are working correctly or need maintenance;
- Evaluate whether implementation of additional BMPs are needed to address the observed contaminant.

[11] 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.

[12] After all task lines have been completed, make sure you have clicked the “Save” bar at the bottom of the page.

#### 4.3 Completing the Visual Assessment Form

- [1] Ensure the inspection form has been filled out completely including information not available during the field inspection (e.g., date/time of discharge, date/time of sample collection, total precipitation amount).
- [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 16:** 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 that is auto-populated is the date and time that 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 17:** The field personnel must type or write his/her name in the “Labor Report Update” field.

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- [6] Any 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 18:** Capture an electronic signature by drawing with a finger on the tablet screen. The Lead Inspector is certifying that the information submitted is “true, accurate, and complete” by electronically signing the work order.  
  
**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 the date of when the form was signed.
  - [c] By signing either electronically or on hard copy, the field personnel is certifying that the information submitted is “true, accurate, and complete”.
- [8] Click on the “Save” bar at the bottom of the page to close the “Signature” field.

#### 4.4 Completing the Certification Statement

EPC-CP will send completed visual assessment forms to the DEPs at the end of each quarter that will contain a certification statement in the cover memorandum. The duly authorized signatory may sign and date this certification statement rather than the certification line associated with each attached form. However, the memorandum and associated completed forms 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 EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan. 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 to local procedures and document completion of training.

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. It must be maintained in accordance with [PD1020](#), *Document Control and Records Management* and ADESH-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.

<b>MSGP Stormwater Visual Assessments</b>	No: EPC-CP-QP-2105	Page 12 of 19
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Below are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
EPC-CP-QP-2105 R0 Form-1, <i>MSGP Visual Assessment</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## 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.

**Best Management Practices (BMPs)** – Schedules of activities, practices, prohibitions of practices, structures, vegetation, maintenance procedures, and other management practices to prevent or reduce pollution. BMPs also include treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

**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.

**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 your 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.

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**Unstaffed and Inactive Sites** – A facility maintaining certification with the SWPPP that it is inactive and unstaffed and visual examinations are not required.

## 7.2 Acronyms

See LANL [Acronym Master List](#).

BMP	Best Management Practice
DEP	Deployed Environmental Professional
EPC-CP	Environmental Protection and Compliance – Compliance Programs
FOD	Facility Operations Division
IWD	Integrated Work Document
LANL	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
SWPPP	Stormwater Pollution Prevention Plan

## 8.0 REFERENCES

EPC-CP-QP-2109, MSGP Corrective Actions

EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan

ADESH-TPP-301, ADESH Training Program Plan

ADESH-AP-006, Records Management Plan

PD1020, Document Control and Records Management

## 9.0 ATTACHMENTS

**Attachment 1:** Screenshot Examples of EPC-CP-QP-2105 R0 Form 1, MSGP Visual Assessment in MC Express

**Attachment 2:** EPC-CP-QP-2105 R0 Form 1, MSGP Visual Assessment Hard Copy Example



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# **Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R0 Form 1, MSGP Visual Assessment in MC Express**

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Work Order Summary Page (Section 3.1, Steps 5 and 6)

The screenshot displays the 'MC Express' interface for a work order summary. At the top, the header bar shows a back arrow, 'MC Express', and a menu icon. Below the header, the work order is identified as 'WORK ORDER: MSGP-4344' with a 'Summary' tab. A red alert banner indicates '[MSGP00901] MSGP00901 TA-3-22 Power & Steam Plant Requested'. Below this, a section titled 'EXAMPLE MSGP Visual Assessment' is visible. A list of work order items follows, with 'Tasks' circled in red. The list includes 'Tasks' (15), 'Assignments' (1), 'Labor' (0), 'Parts' (0), 'Other Costs' (0), 'Attachments' (2), and 'Asset History' (121). At the bottom, there is a 'More Work Order Detail...' link and a footer bar with 'Refresh' and 'List' buttons.

Item	Count
Tasks	15
Assignments	1
Labor	0
Parts	0
Other Costs	0
Attachments	2
Asset History	121

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## Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R0 Form 1, MSGP Visual Assessment in MC Express (cont.)

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Work Order Tasks Page – Documenting Sample Information (Section 4.1, Steps 2-7)

MC Express

WORK ORDER: MSGP-4344

Tasks

The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.

Sample information

30	Document the monitoring Period (e.g., Apr-May)	↓
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	↓
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	↓
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	↓
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	↓
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.	↓

Refresh List

MC Express

WORK ORDER: MSGP-1423

Edit Task

30 Document the monitoring Period (e.g., Apr-May)

Reading

Jun-July

Initials

Failed?

No

Not Applicable?

No

Complete?

Yes

Comments

Cancel Save

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## Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R0 Form 1, MSGP Visual Assessment in MC Express (cont.)



















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Work Order Tasks Page – Assessing Parameters (Section 4.2, Steps 1-9)

**MC Express**

WORK ORDER: MSGP-4344  
Tasks

**Parameters**

 <b>7</b>	<b>110</b> Is sample colorless? If "Failed", describe.	
 <b>8</b>	<b>120</b> Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	
 <b>9</b>	<b>130</b> Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	
 <b>10</b>	<b>140</b> Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	
 <b>11</b>	<b>150</b> Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	
 <b>12</b>	<b>160</b> Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	
 <b>13</b>	<b>170</b> Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').	
 <b>14</b>	<b>180</b> Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).	
 <b>15</b>	<b>190</b> Is sample free of other obvious indicators of pollution? If "Failed", describe.	

**Refresh**  **List**

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## Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R0 Form 1, MSGP Visual Assessment in MC Express (cont.)

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Work Order Status Update Page – Completing the Form (Section 4.3, Steps 4-7)

The screenshot shows the 'MC Express' mobile application interface for updating a work order status. The header bar is blue with a back arrow, 'MC Express' text, and a menu icon. Below the header, the work order number 'MSGP-4344' and the title 'Status Update' are displayed. The main form area includes:
 

- 'Issued / Completed' status indicator with a clipboard icon.
- 'New Status' field with a red box labeled '16' next to it, showing a dropdown menu with 'Completed' selected.
- 'Date' field with a calendar icon and a date/time picker showing '6/19/2018 10:48 AM'.
- 'Percent Complete' field with a slider set to 100%.
- 'Labor Report Update' field with a red box labeled '17' next to it, showing a dropdown menu with 'Jane Admin' selected.

 The bottom navigation bar contains 'Cancel', a checkmark icon, and 'Save' buttons.

Work Order Status Update Page (Section 4.3, Step 7)

The screenshot shows the 'MC Express' mobile application interface for updating a work order status, specifically the signature step. The header bar is blue with a back arrow, 'MC Express' text, and a menu icon. Below the header, the work order number 'MSGP-4344' and the title 'Status Update' are displayed. The main form area includes:
 

- 'Signature' field with a red box labeled '18' next to it, showing a handwritten signature 'Jane Admin'.
- A '(Remove)' link below the signature.

 The bottom navigation bar contains 'Cancel', a checkmark icon, and 'Save' buttons.



<b>MSGP Stormwater Visual Assessments</b>	No: EPC-CP-QP-2105	Page 18 of 19
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**Attachment 2: EPC-CP-QP-2105 R0 Form 1, MSGP Visual Assessment Hard Copy Example**  
(Page 1 of 2)

Los Alamos National Laboratory

**Work Order MSGP-4344**

MSGP Monitoring Stations  
Printed 6/19/2018 - 10:55 AM (Duplicate Copy)

**Maintenance Details**

<b>Requested By:</b> Admin, Jane on 6/7/2018 10:51:00 AM	<b>Target:</b> 12/31/2018	MSGP Program
<b>Procedure:</b> MSGP Visual Assessment (EPC-CP-QP-2105 R0 Form 1)	<b>Priority/Type:</b> / Inspection	RG121.9
<b>Last PM:</b> 5/5/2010	<b>Department:</b> Utilities and Infrastructure	TA-3-22 Power & Steam Plant
		Monitored Outfall (009)
		MSGP00901
<b>Reason:</b> EXAMPLE MSGP Visual Assessment	<b>Contact:</b> Admin, Jane	
<b>Special Instructions:</b>	<b>Phone:</b> 123-4567	

**Tasks**

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
<b>Sample Information</b>					
1 30	Document the monitoring Period (e.g., Apr-May)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Parameters</b>					
7 110	Is sample colorless? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12 160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13 170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15 190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Labor Report**

16 **Completed:** 6/19/2018 10:48:00 AM

17 **Report:** Jane Admin

18 6/19/2018

Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

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**Attachment 2: EPC-CP-QP-2105 R0 Form 1, MSGP Visual Assessment Hard Copy Example (cont.)**

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**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)

**19** Print name and title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

EPC-CP-QP-2105 R0 Form 1

**ATTACHMENT 19: EPC-CP-TP-2103, *INSPECTING ISCO STORMWATER RUNOFF SAMPLERS AND  
RETRIEVING SAMPLES***

<b>EPC-CP-TP-2103</b>	Revision: <b>0</b>	
Effective Date: 02/24/2020	Next Review Date: 02/24/2023	

**Environment, Safety, Health, Quality, Safeguards, and Security 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: New EPC-CP format and numbering system

**Safety Basis:**    ☒ N/A            ☐ USQ            ☐ USI Number: \_\_\_\_\_

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#### REVISION HISTORY

<b>Document Number and Revision</b> <i>[Include revision number, beginning with Revision 0]</i>	<b>Effective Date</b> <i>[Document Control Coordinator inserts effective date]</i>	<b>Description of Changes</b> <i>[List specific changes made since the previous revision]</i>
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.

<b>Inspecting ISCO Stormwater Runoff Samplers &amp; Retrieving Samples</b>	No: EPC-CP-TP-2103	Page 3 of 27
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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, Quality, Safeguards, and Security (ESHQSS) 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.

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## 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 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 4.10) 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.



<b>Inspecting ISCO Stormwater Runoff Samplers &amp; Retrieving Samples</b>	No: EPC-CP-TP-2103	Page 6 of 27
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- 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) at all times, 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 interrupted.

#### 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.

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- 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
- ISCO 701 pH/Temperature Module Installation and Operation Guide (if equipped at a station).

### **3.3 Special Tools, Equipment, Parts, and Supplies**

Ensure the following equipment is available.

- Safety glasses;
- Sturdy hiking boots or steel toed shoes (as needed) with soles that grip and other required facility specific Personal Protective Equipment;
- Nitrile gloves;
- Leather gloves;
- 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);
- 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);

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- 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 R0 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.

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- [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 storm water 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 storm water discharge began from the precipitation report.
  - [b] IF the sampler tripped or collected storm water, 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 storm water is collected.
  - [a] Document if the water is taken by grab sample.
  - [b] Complete the Bottle Information (**ITEM 20**) in Section 4.1.7.
  - [c] Follow the steps in thru Section 4.2 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.



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- [a] IF unable to review the temperature,  
THEN check “No” and describe the condition (e.g., dead battery, electrical short).
- [6] **ITEM 7:** For Avalanche samplers equipped with an ISCO pH and Temp Module, check and document a pH measurement was taken on the collected water.
  - [a] Record the pH measurement taken at the time Bottle 1 was filled as “Average:Minimum:Maximum.”
  - [b] IF unable to review the pH,  
THEN check “No” and describe the condition (e.g., damaged meter).

#### 4.1.3 Water Retrieval Information

- [1] **ITEM 8:** 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 9:** 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 10:** 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,

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THEN describe the condition (e.g. cables chewed through by animal) and follow-up work needed (e.g., replace cables).

- [3] **ITEM 11:** 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 ( $\geq 11.7$  for non-floating charged batteries at ISCO 3700 samplers and  $\geq 11.0$  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 12:** 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 13:** 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 14:** Check and document the sample tubing has passed a suction test.
- [6] **ITEM 15:** Check and document the sampler is ON prior to departing the site.
- [7] **ITEM 16:** Check and document the liquid level actuator has been set to "Latch" prior to departing the site.

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- [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 17:** 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 11 for each sampler.

#### **4.1.6 Maintenance Information**

- [1] **ITEM 18:** 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.
  - [a] IF the battery does not have an identification number,  
THEN:
    - Contact the MSGP Program Lead to have one assigned.
    - Paint or write the number in a permanent manner on the battery.
- [3] **ITEM 19:** 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 20:** Document water collected by recording the following information for each bottle by position number in the carousel.

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- 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 analytical 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 analytical 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 analytical,  
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 8**,



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- 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 8**.
- [9] Place retrieved sample bottles in a cooler with blue ice (or equivalent).
- [10] Return any excess stormwater collected that exceeded the amount required 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 19**.
- [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.



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#### 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] Sign and date/time the SCPL and place it with the samples in the refrigerator.
- [3] Ensure custody seal is intact on each sample bottle.
- [4] Refer to EPC-CP-QP-2106, *Processing MSGP Stormwater Samples* for processing and submitting samples for shipping to the SMO.
- [5] 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 21:** 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 22:** The field personnel must type or write his/her name in the “Labor Report Update” field.

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- [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 23:** 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] The field personnel is certifying that the information submitted is “true, accurate, and complete” by electronically signing 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 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.

## 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 ADESH-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. Records generated are identified by title and type.

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Record Title	QA Record	Non-QA Record
EPC-CP-TP-2103 R0 Form 1, <i>ISCO Sampler Inspection and Sample Retrieval</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## 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	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
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

ADESH-TPP-301, ADESH Training Program Plan

ADESH-AP-006, Records Management Plan

PD1020, Document Control and Records Management



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## 9.0 ATTACHMENTS

**Attachment 1:** Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express

**Attachment 2:** EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* Hard Copy Example

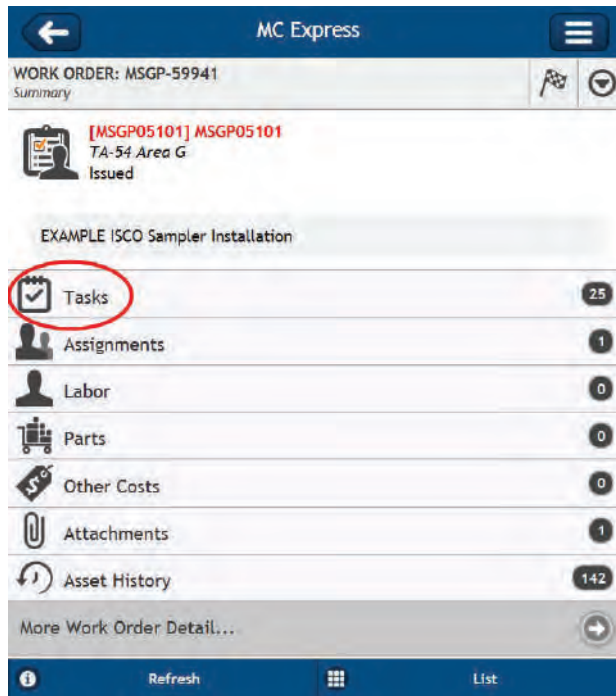
**Attachment 3:** Sample Retrieval Flow Diagram

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## Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express

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Work Order Summary Page (Section 3.1, Steps 8 and 9)



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## Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)

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Work Order Tasks page - On Arrival (Section 4.1.1, Steps 2-5)

MC Express

WORK ORDER: MSGP-59941

Tasks

**ON ARRIVAL**

- 20** Is sampler ON and functioning properly upon arrival?  
Asset: [210C01437] ISCO 3700 Sampler
- 30** Does the sampler display "Sampler Inhibited"? If No, record specific message(s).  
Asset: [210C01437] ISCO 3700 Sampler
- 40** Is sampler time delta < 1 min (MST)? If No, record adjustment  
Asset: [210C01437] ISCO 3700 Sampler
- 50** Is sampler ON and functioning properly upon arrival?  
Asset: [210J01522] ISCO Avalanche Sampler
- 60** Does the Avalanche display "Program Disabled"? If No, record specific message(s).  
Asset: [210J01522] ISCO Avalanche Sampler
- 70** Is sampler time delta < 1 min (MST)? If No, record adjustment  
Asset: [210J01522] ISCO Avalanche Sampler

Refresh List

MC Express

WORK ORDER: MSGP-59941

Edit Task

**20** Is sampler ON and functioning properly upon arrival?  
[210C01437] ISCO 3700 Sampler

Reading

Sampler knocked over by bear, power disconnected

Initials

Failed?

Yes

Not Applicable?

No

Complete?

No

Comments

Cancel Save

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### Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)

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Work Order Task Page – Water Collection Information and Water Retrieval Information (Sections 4.1.2, Steps 3-6 and 4.1.3, Steps 1 and 2)

The screenshot displays the 'MC Express' mobile application interface. At the top, a blue header bar contains a back arrow, the text 'MC Express', and a menu icon. Below the header, a white bar shows 'WORK ORDER: MSGP-59941' and 'Tasks' with a flag icon and a circular arrow icon. The main content area is divided into two sections: 'Water Collection information' and 'Water Retrieval information'. Each section contains a list of tasks with a flag icon, a task number, and a description. The 'Water Collection information' section includes tasks 90, 100, 110, and 120. The 'Water Retrieval information' section includes tasks 140 and 150. At the bottom, a blue bar contains an information icon, a 'Refresh' button, a grid icon, and a 'List' button.

Task Number	Description
90	Is there evidence of flow? If YES (but no water collected), describe and record date/time of discharge.
100	Is any water collected? If YES, complete Bottle Information section.
110	If water was collected, record current refrigerator temperature (C). Asset: [210J01522] ISCO Avalanche Sampler
120	If water was collected, record the pH measurement corresponding to the sample date/time: AVERAGE:... Asset: [211C01137] ISCO pH and Temp Module
140	Was sample volume RETRIEVED? If Yes, record total volume retrieved.
150	Was a Visual Assessment performed? If Yes, complete the MSGP Visual Assessment form (EPC-CP-TP-064).

Work Order Task Page – On Departure (Sections 4.1.4, Steps 2 and 3)

The screenshot displays the 'MC Express' mobile application interface for the 'ON DEPARTURE' section. The header and work order information are the same as the previous screenshot. The main content area shows a list of tasks under the 'ON DEPARTURE' section. The tasks are 170 and 180. At the bottom, the same blue bar with 'Refresh', grid, and 'List' buttons is present.

Task Number	Description
170	Are electrical connections secure?
180	Record voltage of battery(ies) powering sampler. Voltage(s) >=11.7V?



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### Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)

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Work Order Task Page – Equipment Specific Tasks (Sections 4.1.5, Steps 1-8)

**MC Express**

WORK ORDER: MSGP-59941

Tasks

**Equipment specific tasks**

- 200**  
Does the sampler pass the ISCO diagnostics test?  
Asset: [210C01437] ISCO 3700 Sampler
- 210**  
Is intake tubing free/clear of debris?  
Asset: [210C01437] ISCO 3700 Sampler
- 220**  
Does sample tubing pass suction test?  
Asset: [210C01437] ISCO 3700 Sampler
- 230**  
Is sampler on upon departure?  
Asset: [210C01437] ISCO 3700 Sampler
- 240**  
Has the actuator switch been reset to "Latch"?  
Asset: [210C01437] ISCO 3700 Sampler
- 250**  
Does ISCO display "Sampler Inhibited" on departure?  
Asset: [210C01437] ISCO 3700 Sampler

Refresh List

Work Order Task Page – Maintenance Information (Sections 4.1.6, Steps 1-3)

**MC Express**

WORK ORDER: MSGP-59941

Tasks

**Maintenance information**

- 330**  
Is any maintenance not described above completed during inspection? If Yes, describe.
- 340**  
Is any follow-on maintenance not described above required? If Yes, describe.

Refresh List

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## Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express (cont.)

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Work Order Task Page – Bottle Information (Sections 4.1.7, Step 1)

MC Express

WORK ORDER: MSGP-59941

Tasks

Bottle information: IF bottle collected record bottle type (P or G), collection date & time, volume, and/or any ISCO messages

- 360  
Bottle #1?  
Asset: [210C01437] ISCO 3700 Sampler
- 370  
Bottle #2?  
Asset: [210C01437] ISCO 3700 Sampler
- 380  
Bottle #3?  
Asset: [210C01437] ISCO 3700 Sampler
- 390  
Bottle #4?  
Asset: [210C01437] ISCO 3700 Sampler

Refresh List

MC Express

WORK ORDER: MSGP-59941

Edit Task

360  
Bottle #1?  
[210C01437] ISCO 3700 Sampler

Reading

2/10/17 14:32: 1L poly no more liquid detected

Initials

Failed?

No

Not Applicable?

No

Complete?

Yes

Comments

Cancel Save

<b>Inspecting ISCO Stormwater Runoff Samplers &amp; Retrieving Samples</b>	No: EPC-CP-TP-2103	Page 24 of 27
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**Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)**

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Work Order Status Update Page (Section 4.4, Steps 4 and 5)

MC Express

WORK ORDER: MSGP-59941  
Status Update

Issued

New Status **21**

Completed

Date

03/16/2017 12:03 PM

Percent Complete 100%

Labor Report Update **22**

Select Comments to Add.....

Jane Admin

Cancel Save

Work Order Status Update Page (Section 4.4, Step 7)

MC Express

WORK ORDER: MSGP-59941  
Status Update

Signature **23**

(Remove)

Jane Admin

Cancel Save

<b>Inspecting ISCO Stormwater Runoff Samplers &amp; Retrieving Samples</b>	No: EPC-CP-TP-2103	Page 25 of 27
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**Attachment 2: EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval Hard Copy Example**  
(Page 1 of 2)

Los Alamos National Lab - ADESH

Work Order MSGP-59941

MSGP Monitoring Stations  
Printed 8/10/2017 - 11:25 AM (Duplicate Copy)

Maintenance Details				
Requested By:	Admin, Jane on 8/10/2019 11:23:00 AM	Target: 12/31/2018	MSGP Program	
Procedure:	MSGP ISCO Sampler Inspection and Sample Retrieval (EPC-CP-TP-2103 R0 Form 1)	Priority/Type: / Inspection	RG121.9	
		Department: Utilities and Infrastructure	TA-3-38 Carpenter Shop	
			Monitored Outfall (073)	
			MSGP07302	
Last PM:	7/20/2019		Contact:	Admin, Jane
Project:			Phone:	123-4567
Reason:	Example ISCO Sampler Inspection and Sample Retrieval			

Tasks					
#	Description	Meas.	No	N/A	Yes
<b>ON ARRIVAL</b>					
1 20	ISCO 3700 Sampler [210C01437] Is sampler ON and functioning properly upon arrival?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 30	ISCO 3700 Sampler [210C01437] Does the sampler display "Sampler Inhibited"? If No, record specific message(s).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 40	ISCO 3700 Sampler [210C01437] Is sampler time delta < 1 min (MST)? If No, record adjustment		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50	ISCO Avalanche Sampler [210J01522] Is sampler ON and functioning properly upon arrival?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
60	ISCO Avalanche Sampler [210J01522] Does the Avalanche display "Program Disabled"? If No, record specific message(s).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70	ISCO Avalanche Sampler [210J01522] Is sampler time delta < 1 min (MST)? If No, record adjustment		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Water Collection information</b>					
4 90	Is there evidence of flow? If YES (but no water collected), describe and record date/time of discharge.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 100	Is any water collected? If YES, complete Bottle Information section.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 110	ISCO Avalanche Sampler [210J01522] If water was collected, record current refrigerator temperature (C).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 120	ISCO pH and Temp Module [21 1C01137] If water was collected, record the pH measurement corresponding to the sample date/time: AVERAGE. MINIMUM: MAXIMUM:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Water Retrieval information</b>					
8 140	Was sample volume RETRIEVED? If Yes, record total volume retrieved.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 150	Was a Visual Assessment performed? If Yes, complete the MSGP Visual Assessment form (EPC-CP-QP-2105).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ON DEPARTURE</b>					
10 170	Are electrical connections secure?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 180	Record voltage of battery(ies) powering sampler. Voltage(s) >=11.7V?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Equipment specific tasks</b>					
12 200	ISCO 3700 Sampler [210C01437] Does the sampler pass the ISCO diagnostics test?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13 210	ISCO 3700 Sampler [210C01437] Is intake tubing free/clear of debris?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 220	ISCO 3700 Sampler [210C01437] Does sample tubing pass suction test?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15 230	ISCO 3700 Sampler [210C01437] Is sampler on upon departure?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 240	ISCO 3700 Sampler [210C01437] Has the actuator switch been reset to "Latch"?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17 250	ISCO 3700 Sampler [210C01437] Does ISCO display "Sampler Inhibited" on departure?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


EPC-CP-TP-2103 R0 Form 1



Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 26 of 27
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**Attachment 2: EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval Hard Copy Example (cont.)**

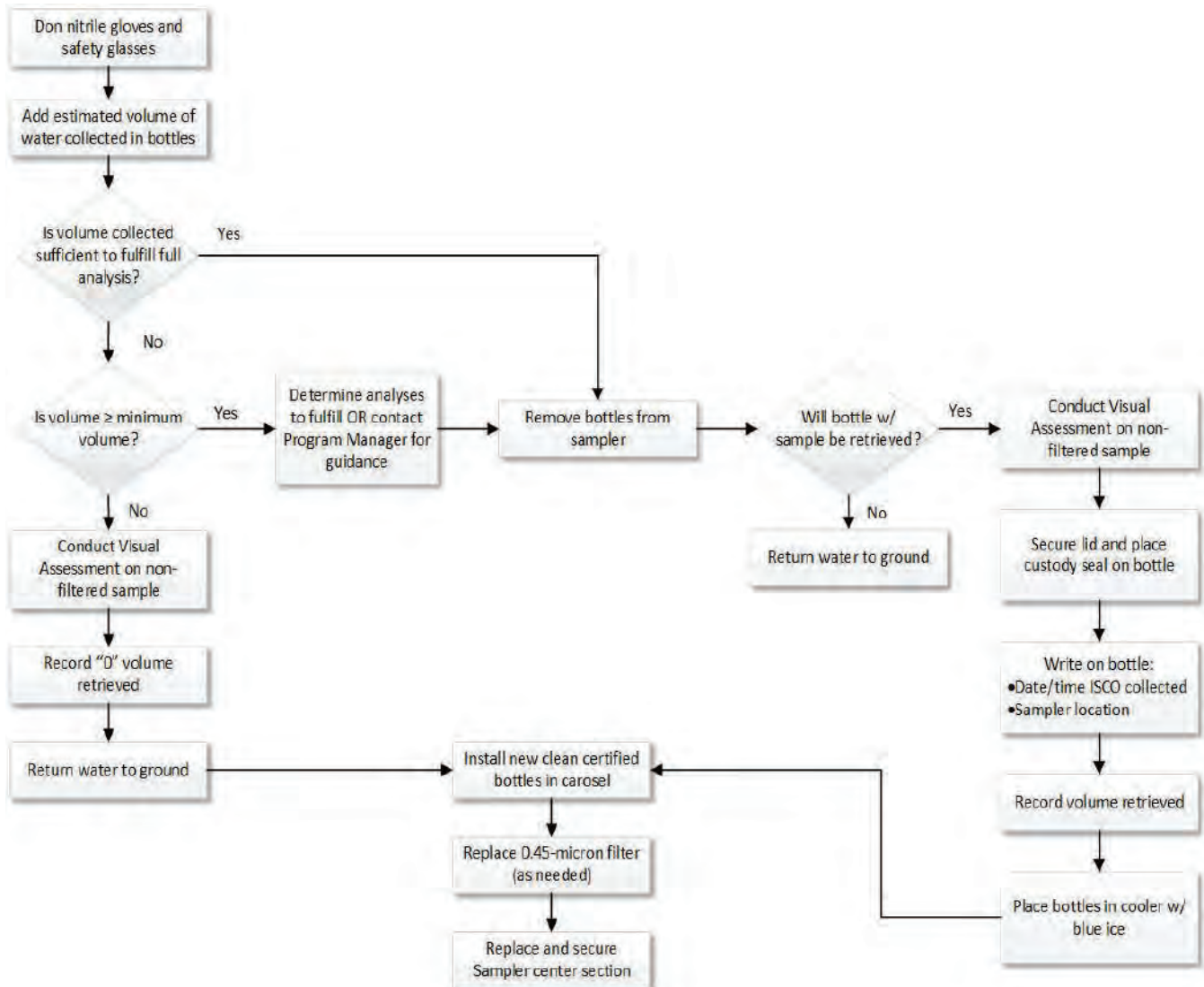
(Page 2 of 2)

260	ISCO Avalanche Sampler [210J01522] Does the sampler pass the ISCO diagnostics test?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
270	ISCO Avalanche Sampler [210J01522] Is intake tubing free/clear of debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
280	ISCO Avalanche Sampler [210J01522] Does sample tubing pass suction test?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
290	ISCO Avalanche Sampler [210J01522] Is sampler on upon departure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
300	ISCO Avalanche Sampler [210J01522] Has the actuator switch been reset to "Latch"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
310	ISCO Avalanche Sampler [210J01522] Does Avalanche display "Program Disabled" on departure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Maintenance Information</b>				
18	330 Is any maintenance not described above completed during inspection? If Yes, describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	340 Is any follow-on maintenance not described above required? If Yes, describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Bottle Information: IF bottle collected record bottle type (P or G), collection date &amp; time, volume, and/or any ISCO messages</b>				
20	360 ISCO 3700 Sampler [210C01437] Bottle #1?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	370 ISCO 3700 Sampler [210C01437] Bottle #2?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	380 ISCO 3700 Sampler [210C01437] Bottle #3?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	390 ISCO 3700 Sampler [210C01437] Bottle #4?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	400 ISCO 3700 Sampler [210C01437] Bottle #5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	410 ISCO 3700 Sampler [210C01437] Bottle #6?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	420 ISCO 3700 Sampler [210C01437] Bottle #7?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	430 ISCO 3700 Sampler [210C01437] Bottle #8?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	440 ISCO 3700 Sampler [210C01437] Bottle #9?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	450 ISCO 3700 Sampler [210C01437] Bottle #10?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	460 ISCO 3700 Sampler [210C01437] Bottle #11?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	470 ISCO 3700 Sampler [210C01437] Bottle #12?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	480 ISCO Avalanche Sampler [210J01522] Bottle #1?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	490 ISCO Avalanche Sampler [210J01522] Bottle #2?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	500 ISCO Avalanche Sampler [210J01522] Bottle #3?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	510 ISCO Avalanche Sampler [210J01522] Bottle #4?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Labor Report</b>				
21	Completed: 5/30/2019 4:44:00 PM			
22	Report: Jane Admin			
23	 Signature / Name	5/30/2019 Date	 Signature / Name	 Date
I confirm the information as recorded is true, accurate and complete.				


EPC-CP-TP-2103 R0 Form 1

**Attachment 3: Sample Retrieval Flow Diagram**

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**ATTACHMENT 20: EPC-CP-QP-2106, *PROCESSING MSGP STORMWATER SAMPLES***

<b>EPC-CP-QP-2106</b>	Revision: <b>0</b>	
Effective Date: 10/18/2019	Next Review Date: 10/18/2022	

**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: New EPC-CP format and numbering system

**Safety Basis:**    ☒ N/A            ☐ USQ            ☐ USI    Number: \_\_\_\_\_

**Document Author/Subject Matter Expert:**

Name:	Organization:	Signature:	Date:
Holly L. Wheeler	EPC-CP	Signature on File	10-17-19

**Derivative Classifier:**    ☒ **Unclassified** or ☐ \_\_\_\_\_

Name:	Organization:	Signature:	Date:
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#### REVISION HISTORY

<b>Document Number and Revision</b> <i>[Include revision number, beginning with Revision 0]</i>	<b>Effective Date</b> <i>[Document Control Coordinator inserts effective date]</i>	<b>Description of Changes</b> <i>[List specific changes made since the previous revision]</i>
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.

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## 1.0 INTRODUCTION

Triad 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 outfalls 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-59-01).

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.

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Use only sample containers that are documented to meet or exceed “US EPA Specification and Guidance for Contaminant-Free Sample Container” (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 season and/or the beginning of each MSGP monitoring quarter. The MSGP Data Manager will generate Chain of Custody/Analysis Request(s) from the Environmental Information Management (EIM) database as stormwater is collected. If the MSGP Data Manager is not available, forms will be obtained from the EPC-CP Sample Management Office (SMO).

#### **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.

- Peristaltic Pump User Manual (e.g., GeoTech)
- 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
- Chain of Custody/Analysis Request
- EPC-CP MSGP SAP most recent revision for the current monitoring year OR project specific monitoring plan



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- Sample containers (glass and poly bottles)
- Sample container lids
- 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.

#### 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.

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- [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 1).
- [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-QP-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 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 (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 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.

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- [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, HNO<sub>3</sub>).
  - [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] Mark each container lid with the 3-digit outfall ID, required analysis, filtration requirement, and preservative requirement.
 

**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.

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## 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<sub>3</sub>), and sulfuric acid (H<sub>2</sub>SO<sub>4</sub>). 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



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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<sub>3</sub>).

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- [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) in sealed bottle(s) 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-59-01) 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<sub>3</sub>).
  - [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:

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- 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.

- [1] IF any excess stormwater sample exists after processing has been completed, THEN perform the following steps.

##### **Sample Processor**

- [a] Ensure the container is labeled with the site of origin, date and time sample was collected, and "Return to Site."
- [b] Place the container in the designated storage location in the EPC-CP Stormwater Laboratory.

##### **EPC-CP technical staff**

- [c] Return the sample to the site of origin as soon as possible.
- [d] Discharge at the sampler location.
- [2] IF the excess stormwater has been altered (e.g., tap water or preservative added), THEN contact the TA-59-0001 Waste Management Coordinator for further instruction.

#### **4.6 Submit Samples for Shipping to Offsite Analytical Laboratory**

##### **Sample Processor**

- [1] Deliver completed SCPL(s) to the MSGP Data Manager.

##### **MSGP Data Manager**

- [2] Process the sample information in the EIM system.

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- [a] Capture any documented deviations from planned conditions (as noted on the SCPLs).
- [b] Generate Chain of Custody/Analysis Request (COC) form(s) and sample container labels to reflect the processed samples (see examples in Attachments 2 and 3).

#### **Sample Processor**

- [3] Ensure the sample containers are securely sealed and wiped dry.
- [4] Cross-check to ensure the Sample ID on the SCPL matches the Field Sample ID on the COC.
- [5] Compare the information from the SCPL and lid of each container and apply the correct labels to the sample containers.
- [6] 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**

- [7] Place the sample(s) in a cooler with sufficient Blue Ice® (or equivalent) to maintain the required preservation temperature ( $\leq 4^{\circ}\text{C}$ ).  
**NOTE:** Cushioning material (e.g., bubble wrap) may be used to separate containers to avoid breakage during transport
- [8] Place the SCPL(s) and COC(s) in a zip lock type bag, seal, and place in the cooler with samples.
- [9] Transport samples to the SMO.
  - [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 the refrigerator is locked.
- [10] Complete the COC form as follows:
  - [a] On the Relinquished By line, the person submitting the sample(s) will sign and print his/her name and date/time samples are relinquished to the SMO.



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- [b] The SMO personnel accepts the sample(s) by signing and printing his/her name and recording the date/time on the Received By line.
- [11] 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. Sign and print your name on the SCPL in the "Relinquished By" box.
  - [c] Record the date/time that matches the data and time RELINQUISHED BY on the COC.
  - [d] Record the COC number (e.g., 2017-xxxx) in the RECEIVED BY box.
- [12] Ensure the following steps are taken:
  - [a] SMO makes a copy of the SCPL(s) to accompany the COC and samples.
  - [b] Keep the original SCPL(s) for the MSGP program.
  - [c] Make a copy of the signed Chain of Custody/Analysis Request.
- [13] Deliver the copy of the signed COC and original SCPL(s) to the MSGP Data Manager for record keeping.

## 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 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 ENV-DO-QP-115, *Personnel Training*. 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.

Personnel performing this procedure will be familiar with the most current versions of the following procedures and operation manuals:

- EPC-CP MSGP SAP for the current monitoring year
- EPC-CP-QP-2103 Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP

## 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 ADESH-AP-006, *Records Management*

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*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. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
*Water Sample Collection and Processing Log/Field Chain of Custody	<input checked="" type="checkbox"/>	<input type="checkbox"/>
*Chain of Custody/Analysis Request	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Copy of log book entry(s) (if a log book is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other pertinent field or lab notes (if additional notes are required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

\*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](#).

COC	Chain of Custody/Analysis Request
EIM	Environmental Information Management
EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance – Compliance Programs
LANL	Los Alamos National Laboratory
µm	Micron
mL	Milliliter
MSGP	Multi-Sector General Permit
N/A	Not Applicable
NPDES	National Pollutant Discharge Elimination System
SAP	Sample Analysis Plan
SCPL	Water Sample Collection and Processing Log/Field Chain of Custody
SMO	Sample Management Office

## 8.0 REFERENCES

None.

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## 9.0 ATTACHMENTS

**Attachment 1:** *Water Sample Collection and Processing Log/Field Chain of Custody Example*

**Attachment 2:** *Sample Container Labels Example*

**Attachment 3:** *Chain of Custody/Analysis Request Example*

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## Attachment 1: Water Sample Collection and Processing Log/Field Chain of Custody Example

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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	X	N/A	N/A

**SAMPLE COMMENTS:** N/A

#### FIELD PARAMETERS:

Sample Time N/A HH:MM

pH 6.2 SU

Visual Inspection Y SU

Visual Inspection WO# MSGP-67890

COLLECTED BY (Printed Name) Jane Doe (Signature) <i>[Signature]</i>	Date/Time 07/03/18 09:25		
RELINQUISHED BY (Printed Name) Jane Doe (Signature) <i>[Signature]</i>	Date/Time 07/03/18 10:05	RECEIVED BY (Printed Name) John Smith (Signature) <i>[Signature]</i>	Date/Time 07/03/18 10:05
PROCESSED BY (Printed Name) John Smith (Signature) <i>[Signature]</i>	Date/Time 07/03/18 13:00		
RELINQUISHED BY (Printed Name) John Smith (Signature) <i>[Signature]</i>	Date/Time 07/04/18 08:35	RECEIVED BY (Printed Name) See COC # (Signature) 2017-1326	Date/Time
RELINQUISHED BY (Printed Name) N/A (Signature)	Date/Time	RECEIVED BY (Printed Name) N/A (Signature)	Date/Time

Report Date: 08/01/2018



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## Attachment 2: Sample Container Labels Example

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Los Alamos National Laboratory	
Sample ID: MSGP-17-131786	
Container: 500 ML POLY	1 of 1
Preservative: HNO3 ICE	
Analysis: NPDES-AI-Total Recoverable	
Date: 04/01/2017	Time: 16:03

Los Alamos National Laboratory	
Sample ID: MSGP-17-131787	
Container: 500 ML POLY	1 of 1
Preservative: HNO3 ICE	
Analysis: NPDES-AI-Total Recoverable	
Date: 04/01/2017	Time: 16:03



**ATTACHMENT 21: ENV-DO-QP-101, *ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS***

**EPC-DO-QP-101**Revision: **3**

Effective Date: 08/07/2017

Next Review Date: 08/07/2020

**Environment, Safety, and Health Directorate****Environmental Protection and Compliance Division – Compliance Programs****Quality Procedure****Environmental Reporting Requirements for Releases or Events****Document Owner/Subject Matter Expert:**

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	EPC-CP, Group Leader	Signature on File	8-3-17
Responsible Line Manager	Organization	Signature:	Date:
	EPC-DO, Division Leader	Signature on File	8-7-17

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#### REVISION HISTORY

<b>Document Number and Revision</b> <i>[Include revision number, beginning with Revision 0]</i>	<b>Effective Date</b> <i>[Document Control Coordinator inserts effective date]</i>	<b>Description of Changes</b> <i>[List specific changes made since the previous revision]</i>
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1	4/10	Revision and update
ENV-DO-QP-101 R2	6/12	Biennial Review/Revision, new template implemented.
EPC-DO-QP-101 R3	08/07/17	Revision and update. This document replaces ENV-DO-QP-101 R2. New document number reflects organizational name change.

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## 1.0 INTRODUCTION

This Environmental Protection and Compliance Division (EPC-DO) 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\*](#), and [P322-4, \*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 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. For notifications to Pueblo Environmental Departments refer to [ENV-DO-QP-111, \*Reporting Environmental Releases to Pueblo Governments\*](#).

## 2.0 PRECAUTIONS AND LIMITATIONS

The work described in this procedure includes field work that does not require an Integrated Work Document (IWD) and is rated as having a **LOW hazard** level.

## 3.0 RESPONSIBILITIES

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. This procedure will be reviewed biennially by all affected personnel and updated as necessary.

Training to this procedure will be by “self-study” (reading) and is documented in accordance with the trainee’s organization’s procedure for training.

Actions specified within this procedure, unless preceded with “should” or “may”, are to be considered mandatory (i.e., “shall”, “will”, “must”).

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## 4.0 WORK PROCESSES

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 semi-annual basis, EPC-DO 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 Principal Associate Directorate for Operations (PADOPS), Associate Directorate for Environment, Safety, and Health (ADESH), Associate Directorate for Environmental Management (ADEM), Emergency Operations (SEO-DO), EPC-DO, Environmental Protection and Compliance Division Compliance Programs Group (EPC-CP), and Environmental Protection and Compliance Division Environmental Stewardship Group (EPC-ES). The on-call representative can be reached by pager at 505-664-7722.

### 4.1 Responsibility of On-Call Representative

The EPC on-call representative is the party primarily responsible for:

- determining if the incident will require immediate notification to external agencies in accordance with LANL, state, and federal regulatory reporting requirements
- notifying EPC Division management of immediate reporting requirements
- if needed, coordinating with other on-call SMEs and the Emergency Operations Center (EOC) to ensure the required notifications for environmental reporting and abnormal events are being addressed for the Laboratory

The EPC on-call representative is not responsible for the following and EOC will make these determinations:

- determining if the Resource Conservation Recovery Act (RCRA) Contingency Plan must be implemented
- if a shock-sensitive material or leaking or compromised gas cylinder constitutes an emergency

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.

A list of contact numbers for on-call representatives and SMEs for EPC-CP and EPC-ES groups is available in the EPC-CP group office. The EPC-DO and SEO-DO may also be contacted to determine the on-call representative for each group.



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## 4.2 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 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.

## 4.3 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 Los Alamos Field Office (DOE LAFO) 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 management, with input from EPC SMEs, will determine if an ORPS (Occurrence Reporting Processing System) report or other type of Lessons Learned will be necessary.

**NOTE:** SEO-DO maintains a current list of on-call LANL managers.

## 4.4 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:

- Resource Conservation and Recovery Act (RCRA)
- Toxic Substances Control Act (TSCA)
- Clean Water Act (CWA), New Mexico Water Quality Act (NMWQA), and New Mexico Water Quality Control Commission (NMWQCC) Regulations
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Emergency Planning and Community Right-to-Know Act (EPCRA)
- Clean Air Act
- Endangered Species Act
- Bald and Golden Eagle Protection Act
- Migratory Bird Treaty Act
- New Mexico Wildlife Conservation Act
- National Environmental Policy Act
- National Historic Preservation Act
- Native American Graves Protection and Repatriation Act

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- 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 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 requirements, the SEO-DO manager determines if the “RCRA Contingency Plan” provisions should be implemented. The EPC on-call representative or an EPC-CP SME performs notifications that may be required.

The SEO-DO Manager will normally attempt to contact the EPC-CP SME for guidance in making this decision. If the EPC-CP SME is successfully contacted, the completion of the remainder of this procedure 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-CP and appropriate SMEs. 24-hour notification can be made by the EPC on-call representative or by an EPC SME.

The Emergency Operations Center (EOC) manager makes the determination that unstable chemicals, leaking or compromised gas cylinders represent an emergency situation and, typically with EPC-CP, how best to respond. 24-hour notification can be made by the on-call representative or EPC-CP SME.

If a release/event is reportable under RCRA rules, determine if the release/event is reportable under other rules and proceed to the Section 4.10 *Reporting a Release or Event*.

#### 4.6 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 [40 Code of Federal Regulations (CFR) 761.125(a)(1)]. 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 *Determining if a Release is Reportable under CERCLA, EPCRA, or Other Regulations* to determine if the RQ for PCBs has also been exceeded.

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There are six items containing PCBs that are out of service at the Chemistry and Metallurgy Research (CMR) Building. All other known PCB equipment at the Laboratory has been taken out of service and disposed of in accordance with TSCA regulations.

If a release is reportable under TSCA, continue through the next sections to determine if the release/event is reportable under other rules and proceed to *Reporting a Release or Event* and determine if additional reporting is necessary.

<b>If the spill is ...</b>	<b>Then...</b>
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.

#### **4.7 Determining if a Release is Reportable under the NM Water Quality Act or the CWA**

##### 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 if reporting is required. No quantifiable metric is available to assist in making this determination. 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 if the release is greater than 5,000 gallons, reaches a watercourse, or if the release adversely impacts a Solid Waste Management Unit (SWMU) or Area of Concern (AOC) as directed in the LANL Liquid Discharge Reporting Guidance (Decision Tree), dated March 10, 2009. Contact ADEM to confirm the location and potential impacts to SWMUs or AOCs from any releases that may occur.

##### Groundwater Discharge Permit Reporting

The Laboratory has four current 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.

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**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-1793: Land Application of Treated Groundwater. Permit Condition No. 17.**

The unauthorized release of untreated or treated groundwater that does not constitute land application, as defined in [EPC-CP-QP-010: Land Application of Groundwater](#), would be subject to reporting under Condition No. 17.

**4. DP-1835: Injection of Treated Groundwater to Class V Underground Injection Control (UIC) Wells. Permit Condition No. 22.**

The unauthorized release of treated or untreated groundwater that does not constitute injection into a Class V UIC well, as defined in Discharge Permit DP-1835, would be subject to reporting under Condition No. 22.

**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.

**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 or unplanned release from an NPDES permitted outfall upon discovery in order to meet applicable reporting requirements.

**4.7.1 Reporting Requirement for Petroleum Storage Tanks**

As defined in 20.5.7 NMAC, 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:

- any suspected or confirmed release of regulated substances
- evidence of release of regulated substances
- unusual operational conditions (that would cause concern about a release)
- monitoring results that show loss from the system



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Regulated tanks include those with a capacity between 1,320 gallons and 55,000 gallons. Regulated substances for Aboveground Storage Tanks 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 Aboveground Storage Tank (AST) Program Lead and/or the EPC-CP Water Quality Team Leader prior to completing any external notifications. The PSTB can be reached at 476-4397 during business hours and 827-9329 (NMED Emergency Spill Hotline) during non-business 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 14 days of the incident.

#### **4.7.2 Additional 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 which:

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:

- Distressed or dead juvenile and small fishes
- Washed up or floating fish
- Fish swimming abnormally or erratically
- Fish lying lethargically at water surface or in shallow water
- Fish that are listless or nonresponsive to disturbance
- Stunting, wilting, or desiccation of non-target submerged or emergent aquatic plants
- 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).

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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, which 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>).

#### **4.8 Determining if a Release is Reportable under CERCLA or EPCRA**

Under CERCLA or EPCRA, an RQ is the threshold which requires regulatory notification of a release. An RQ is based on the quantity of chemical released within any 24-hour period. CERCLA RQs of hazardous substances are listed in 40 CFR § 302.4. 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. If a release of an airborne radioactive material exceeds an RQ, the EPA Region 6 Health Physicist (Office-(214) 665-8541; Mobile-(214) 755-1530; Home-(972) 937-1900) must also be verbally notified after the NRC notifications have been completed.

A release is reportable under EPCRA if a release of a hazardous or extremely hazardous substance listed in 40 CFR Part 355 Appendices A and B occurs. The chemicals that have not been assigned RQs by the EPA have been given statutory RQs of one pound by Congress. If an RQ established under EPCRA is met or exceeded, 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).

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 EPCRA and CERCLA reporting requirements.

**NOTE:** Response procedures for "Continuous Releases" are not covered in this procedure.

##### **4.8.1 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:

- 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

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estimates may require reporting, it is best to be conservative and report the release following the reporting requirements detailed in Section 4.10 *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 released.

Step	Action						
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.						
3	<p>If this is an airborne release of radioactive materials, immediate (within 15 minutes of discovery) reporting to the NRC and the EPA Region 6, Regional Health Physicist is required if the RQ has been exceeded. 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.</p> <p>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.</p> <p><b>Immediate evaluation – RQ comparison (of a radioactive material release)</b></p> <table> <tr> <td><b>If the release...</b></td><td><b>Then...</b></td></tr> <tr> <td>Is equal to or greater than the RQ</td><td>Proceed to section 4.10 <i>Reporting a Release or Event</i>.</td></tr> <tr> <td>Is less than the RQ</td><td>No immediate reporting is required; contact EPC environmental health physicist to complete follow-up dose assessment.</td></tr> </table>	<b>If the release...</b>	<b>Then...</b>	Is equal to or greater than the RQ	Proceed to section 4.10 <i>Reporting a Release or Event</i> .	Is less than the RQ	No immediate reporting is required; contact EPC environmental health physicist to complete follow-up dose assessment.
<b>If the release...</b>	<b>Then...</b>						
Is equal to or greater than the RQ	Proceed to section 4.10 <i>Reporting a Release or Event</i> .						
Is less than the RQ	No immediate reporting is required; contact EPC environmental health physicist to complete follow-up dose assessment.						
4	<p>If this is a release of non-rad material, it is reportable if the RQ is exceeded.</p> <table> <tr> <td><b>If the amount released is..,</b></td><td><b>Then...</b></td></tr> <tr> <td>Equal to or greater than the RQ</td><td>Proceed to Section 4.10 <i>Reporting a Release or Event</i>.</td></tr> <tr> <td>Less than the RQ</td><td>Proceed to Step 5</td></tr> </table>	<b>If the amount released is..,</b>	<b>Then...</b>	Equal to or greater than the RQ	Proceed to Section 4.10 <i>Reporting a Release or Event</i> .	Less than the RQ	Proceed to Step 5
<b>If the amount released is..,</b>	<b>Then...</b>						
Equal to or greater than the RQ	Proceed to Section 4.10 <i>Reporting a Release or Event</i> .						
Less than the RQ	Proceed to Step 5						
5	Continue to re-evaluate the release as new data becomes available. Perform Steps 1 through 4 as necessary.						

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#### 4.9 Determining Release Impacts to Biological or Cultural Resources

There are laws and regulations related to protection of biological and cultural resources which are applicable to the Laboratory. These laws and regulations include:

- National Environmental Policy Act
- Endangered Species Act
- Bald and Golden Eagle Protection Act
- Migratory Bird Treaty Act
- New Mexico Wildlife Conservation Act
- New Mexico Endangered Species Act
- National Historic Preservation Act
- Native American Graves Protection and Repatriation Act
- Archaeological Resources Protection Act

Reporting of impacts to biological or cultural resources under the preceding federal laws is not specifically defined. However, the EPC on-call SME should utilize the Decision Support Application (DSA) to determine if the release impacted a Biological or Cultural Site. The DSA layer 'Federally Listed Species Habitat' contains Endangered Species habitat boundaries. The DSA 'Cultural Resources-Buffered Sites' layer contains the boundaries of the Cultural Sites (Please note- information contained in these layers is Official Use Only). Notify the respective Biological or Cultural SME within one business day if the release impacted either of these areas. The Biological or Cultural SMEs will handle any additional reporting requirements.

Additionally, if there is a release of contaminants to a wetland or destruction of a wetland, OR if the event could result in the "take" of a threatened or endangered species (i.e., a wildfire), the EPC on-call representative or SME will notify the Biological SME within one business day of the event. The Biological SME will complete any additional reporting requirements.

#### 4.10 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 5.0 *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](#) and [P322-4, Performance Improvement from Abnormal Events](#).



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Los Alamos National Security (LANS) 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:

<b>Step</b>	<b>Action</b>
1	Compile release information including : <ul style="list-style-type: none"> <li>• The source, cause, type and quantity of the release</li> <li>• Time and duration of the release</li> <li>• Extent of any protective and corrective actions taken</li> <li>• Name, address, and telephone number of the person to contact for further information</li> <li>• Whether the substance is an HS or EHS</li> <li>• Associated health risks and medical attention necessary for exposed individuals</li> <li>• If available, information concerning the release of any hazardous and/or mixed waste which may endanger public or private drinking water supplies</li> <li>• Assessment of actual or potential hazards to human health or the environment outside the facility</li> <li>• If available, estimated quantity and disposition of recovered material that resulted from the incident</li> <li>• Precautions to take due to the release/event, including, in the case of fire, those associated with special hazards due to hazardous and/or mixed waste</li> <li>• Any other information which may help emergency personnel responding to the incident</li> <li>• Environmental media impacted from the release</li> </ul>
2	Notify LANL management, DOE, and the respective Facilities Operations Division (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 - 4.9. 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.

#### **4.10.1 Steps to Notify LANL Management and DOE**

The EPC on-call representative will complete the following steps to provide notification to LANL Management and DOE.

<b>Step</b>	<b>Action</b>
1	Determine that a release to the environment is reportable to state or federal entities as

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	required under applicable regulations.  <b>NOTE:</b> 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, the EPC-DO Division Leader, and DOE LAFO program contact of the release and the required external notifications.
3	Complete environmental reporting to state and federal agencies in accordance with all applicable regulations.
4	Notify the appropriate program SME that may be impacted or be required to complete following 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 which may impact the public and or the environment, EPC staff may provide a courtesy notification to New Mexico Environment Department of events that may not require formal regulatory notification. Examples of such events in the past have been small wild land fires.

## 5.0 RECORDS

The following records are generated as a result of this procedure and are maintained in accordance with ADESH-AP-006 Records Management Plan and [P1020-1, Laboratory Records Management:](#)

- Field documentation of the release, including:
  - 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

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- 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

## **6.0 DEFINITIONS AND ACRONYMS**

### **6.1 Definitions**

**ADESH** – Associate Directorate for Environment, Safety, and Health

**ADEM** – Associate Directorate for Environmental Management

**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

**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.

**CWA** – Clean Water Act

**DOE LAFO** – Department of Energy Los Alamos Field Office

**DSA** – Decision Support Application

**Environment** – Includes "water, air, land, and the interrelationship which exists among and between water, air, land, and all living things." (40 CFR 355.20)

**EOC** – Emergency Operations Center

**EPA** – Environmental Protection Agency

**EPC-DO** – Environmental Protection and Compliance Division

**EPCRA** – Emergency Planning and Community Right-to-Know Act

**EPC-CP** – Environmental Protection and Compliance Division Compliance Programs Group

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**EPC-ES** – Environmental Protection and Compliance Division Environmental Stewardship Group

**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.

**FOD** – Facility Operations Director

**GWDP**-Ground Water Discharge Permit

**Hazardous Substance (HS)** – These substances are summarized in 40 CFR Part 302. As used in this context, 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).

**IWD** – Integrated Work Document

**LANL** – Los Alamos National Laboratory

**LANS** – Los Alamos National Security

**LEPC** – Local Emergency Planning Committee

**NMAC** – New Mexico Administrative Code

**NMED** – New Mexico Environment Department

**NMWQA** – New Mexico Water Quality Act

**NMWQCC** – New Mexico Water Quality Control Commission

**NPDES** – National Pollutant Discharge Elimination System

**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

**RAD** – Responsible Associate Director

**RCRA** – Resource Conservation and Recovery Act



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**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.

**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

## 7.0 REFERENCES

The following documents are referenced in this procedure:

- 40 CFR 302, Designation, Reportable Quantities, and Notification
- 40 CFR 261, 264 Subpart D 270.30
- DOE guidance document PCB Spill Response and Notification Requirements
- (EH-231-059/1294), available on the EPC-CP web page
- DOE – Office of Environmental Guidance, CERCLA Information Brief, EH-231-001-0490 (April 1990)
- EPA Web Site: <http://www.epa.gov/>
- EPCRA Information Web Site: <http://www.chemicalspill.org/EPCRA-facilities/spill.html>
- 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](#)
- P322-3, Performance Improvement from Abnormal Events
- LANL RCRA Permit No. NM0890010515-1
- LANL NPDES Permit No. NM0028355

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- National Response Center (NRC) Web Site: <http://www.nrc.uscg.mil/>
- NMWQCC Regulations, 20.6.2 NMAC, dated December 1, 2001
- P407, Water Quality
- P1020-1, Laboratory Records Management
- ADESH-AP-006, Records Management Plan

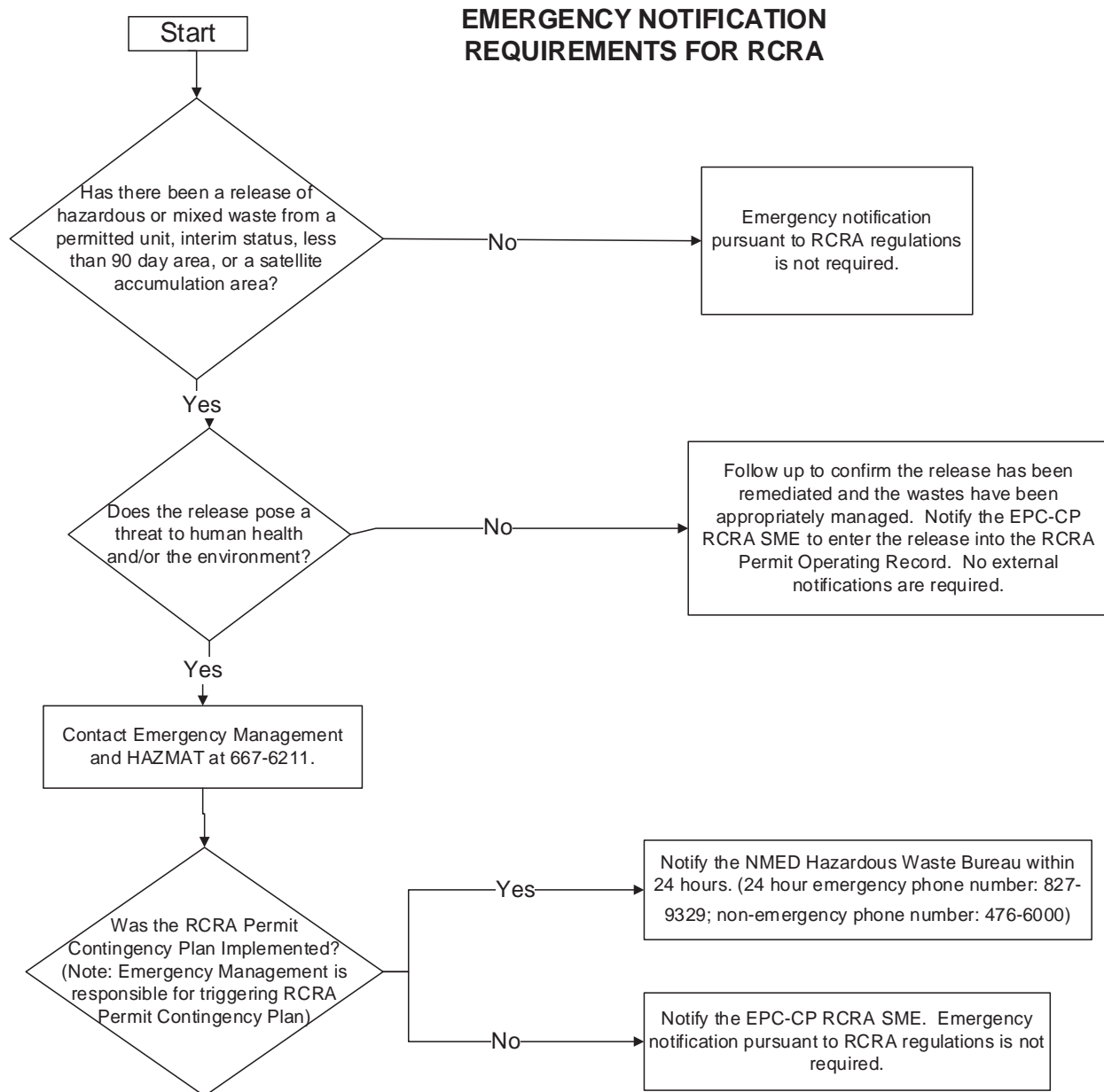
## **8.0 ATTACHMENTS OR APPENDICES**

Attachment 1: Emergency Notification Requirements for RCRA

Attachment 2: Summary of Emergency Release or Event Reporting Requirements

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### Attachment 1: Emergency Notification Requirements for RCRA



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## 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 which 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).




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<b>STATUTE</b>	<b>REGULATIONS</b>	<b>INCIDENT</b>	<b>Immediate Reporting Requirements</b>	<b>Follow Up Reporting Requirements</b>
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-1793: Land Application of Treated Groundwater  DP-1835: Injection of Treated Groundwater to Class V UIC Wells	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 Environmental Improvement Board Regulation	20.5.7 NMAC	A release of a petroleum product from regulated aboveground storage tank.	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 (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 14 days of the incident.
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.	A written follow-up emergency notice must be submitted to the LEPC and SERC as soon as practicable after the release.

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<b>STATUTE</b>	<b>REGULATIONS</b>	<b>INCIDENT</b>	<b>Immediate Reporting Requirements</b>	<b>Follow Up Reporting Requirements</b>
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 not required.
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 possible after discovery, but no later than 24 hours after discovery.	Within 24 hours. Follow-up: as required by agency.

**ATTACHMENT 22: EPC-CP-QP-1007, *SPILL INVESTIGATION***

<b>EPC-CP-QP-1007</b>	Revision: <b>0</b>	
Effective Date: 06/03/2020	Next Review Date: 06/03/2023	

**Environment, Safety, Health, Quality, Safeguards, and Security Directorate**

**Environment Protection and Compliance – Compliance Programs Group**

**Quality Procedure**

## Spill Investigations

**Hazard Grading:**   ☒ Low      ☐ Moderate      ☐ High/Complex

**Usage Level:**   ☒ Reference   ☐ UET      ☐ Mixed: UET Sections: \_\_\_\_\_

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### REVISION HISTORY

<b>Document Number and Revision</b> <i>[Include revision number, beginning with Revision 0]</i>	<b>Effective Date</b> <i>[Document Control Coordinator inserts effective date]</i>	<b>Description of Changes</b> <i>[List specific changes made since the previous revision]</i>
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.

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## **1.0 INTRODUCTION**

All spills and 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 spills and coordination of corrective actions are delegated to the Environmental Protection and Compliance Division's Compliance Programs Group (EPC-CP).

### **1.1 Purpose**

This EPC-CP procedure describes the steps for performing spill investigations throughout LANL.

### **1.2 Scope**

The scope of this procedure is limited to the performance of spill and unplanned release response by EPC-CP personnel and/or authorized subcontractors. Activities include frequent and unscheduled site visits to any area of the Laboratory upon discovery of a spill or unplanned release as support staff for the on-scene Incident Response Commander, deployed environmental staff, or Facility Operations Directorate (FOD) designated facility representative. Support activities include evaluation and documentation of the spill/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 spill 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 spill 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 of the tank, equipment, and area to be inspected.

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- 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).

## 2.2 Limitations

Limitations are defined boundaries (i.e., training, hold points) that are NOT to be exceeded while performing 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 Division – Emergency Operations Group (EMD-EO) or site personnel at all times.
- Spills or 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 spills or unplanned releases have 15-minute and 24-hour notification requirements. Personnel using this procedure must be familiar with the reporting requirements of [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases](#).

## 3.0 PREREQUISITE ACTIONS

### 3.1 Planning and Coordination

The response to spills and/or 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., burn grounds).
- Coordination with Access Control and/or Security for escort, keys, safety (e.g., explosives areas, burn grounds, between security fences).
- Security Clearance (i.e., TA-3-66, TA-55, TA-16).

Site access for spill/unplanned release response will require that the Spill Investigator maintain multiple site-specific training requirements. It will also require that the Spill Investigator coordinate with the Emergency Operations Center (EOC), designated FOD representative, and/or Deployed Environmental Professional (DEP).



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### 3.2 Performance Documents

The following documents are required to perform this procedure:

- EPC-CP-QP-1007 Form 1, Unplanned Release Report.
- EPC-CP-QP-1007 Form 2, 7/15 Day Release Report.
- [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases.](#)

### 3.3 Special Tools, Equipment, Parts, and Supplies

Ensure the following are available for spill investigations and field visits:

- 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 – **\*Note:** Spills Pager can be configured to forward notifications to a government cell phone and email address.
- External dosimeter (as required by site or facility).
- Field Logbook (maintained to record pertinent information about the spill, i.e., time and date of release, location and source of 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, 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 SPILL INVESTIGATIONS

### 4.1 Notification of a Spill or Unplanned Release

The EPC-CP personnel that conduct spill investigations ensure the immediate mitigation of spills and timely notification to appropriate regulatory organizations in the event of a spill or unplanned discharge that has or may adversely affect the environment. Spills/unplanned releases are typically reported by a designated FOD representative (i.e., operations, maintenance) or DEP. If the spill/unplanned release is an emergency (i.e., unknown chemical, toxic chemical, flammable chemical, large volume), it will be reported to the EOC at 667-2400 and the EOC will contact the spill investigator using the EPC Spill pager. If the spill/unplanned release is not an emergency, (potable water, small volume, non-toxic), it will be reported via the EPC Spill pager (664-7722) or by phone call from the DEP or other designated FOD representative (i.e., operations, maintenance, security, health and safety). The EPC-CP Spill Program maintains an on-call schedule for after-hours support

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for incidents and unplanned releases. This listing is updated every three months with contact information for trained EPC-CP personnel (see Attachment 1). This schedule is submitted electronically to update the Primary On-Call List available through the Laboratory's EMD-EO Organizations.

### **Spill Investigator/On Call**

- [1] Receive notification of a spill or unplanned release from one of the following:
  - Spill Pager (664-7722) or forwarded cell phone.
  - Emergency Operations Center (667-2400).
  - Phone call from the DEP or other designated FOD representative (i.e., operations, maintenance, security, health and safety).
- [2] Document the following information, at a minimum, in the Spill Logbook:
  - Time, Date, and Location of the spill/unplanned release
  - Owner of Spill and Site Contact
  - Material Spilled
  - Approximate Volume of the Spill/Unplanned Release
  - Source of the Spill
- [3] Request that the EOC identify a safe route to the site/location of the spill or unplanned release.

#### **CAUTION**

Spills or 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.

- [4] If the owner of the spill is not associated with Triad National Security, LLC, refer the caller to one of the following, as appropriate:
  - Los Alamos County (LAC) Department of Public Utilities at 662-8333 for releases discovered during normal work hours from LAC owned equipment or infrastructure.
  - After Hours LAC – Call Police Dispatch at 662-8222 for releases outside of normal work hours from LAC owned equipment or infrastructure.
  - N3B Operations Center at 551-2954 for releases from N3B owned equipment or infrastructure.
- [5] If the owner of the spill is associated with Triad National Security, LLC, prepare for a site visit as follows:

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- [a] Based upon location of the spill/unplanned release, determine what access requirements are applicable (i.e., Q/L Clearance, Site Specific Training) (see Section 3.1).
- [b] Based upon the location and material spilled, determine the appropriate PPE for the site visit (e.g., boots, safety glasses, long pants/shirt, hardhat, safety vest).
- [6] If the spill is de Minimis (low volume); of a known material (potable water, sanitary waste; and personnel have the appropriate knowledge/training, instruct the following:
  - [a] The delegated FOD representative, DEP and/or Waste Management Coordinator (WMC) may remediate the spill without the Spill Investigator being present.
  - [b] The designated FOD representative, DEP, and/or WMC must complete an Unplanned Release Report (Attachment 2) and submit a copy of the report to the Spill Investigator for recordkeeping.

#### **4.2 Emergency Spill/Unplanned Release - Responding with EMD-EO**

The Spill Investigator will respond to emergency spills/unplanned releases when notified. Emergency spills/unplanned releases typically include unknown materials leaking from bins, drums, and containers, hazardous materials (i.e., acid, caustic, fuel), or large volumes of petroleum products (i.e., leaking tanks, tanker truck accidents). Emergency spills/unplanned releases are managed by the EOC. The following provides the steps a Spill Investigator will follow when responding to support the EOC for an emergency spill/unplanned release.

##### **Spill Investigator/On Call Spill Responder**

- [1] Travel to the location of the spill or unplanned release.
- [2] Report to designated Incident Response Coordinator and receive site-specific safety and security briefing.
- [3] Assess and evaluate nature and extent of the release.
- [4] Provide support and guidance to EMD-DO, Hazmat, and Facility personnel on release mitigation measures and requirements. Examples of the types of support and guidance are:
  - [a] Provide the final inspection of the site to ensure that corrective actions were adequate and are complete.
  - [b] Recommend corrective actions.
  - [c] Inspect the site to ensure that the extent of the spill/unplanned release is adequately defined.

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- [d] Recommend how to stabilize the site for further remediation (i.e., secure the site from storm water).
  - [e] Identify watercourse boundaries near the spill/unplanned release.
  - [f] Determine if samples need to be collected.
  - [g] Recommend sample types and analysis.
  - [h] Recommend sample locations and the number of samples to determine extent of condition.
- [5] If sample collection is required, have the DEP/WMC contact the waste management organization and complete a Request for Analysis (RFA), <http://int.lanl.gov/environment/waste/sampling.shtml>, to schedule sampling. Specify the analytical suite and turn-around time needed for the sample in the RFA.
- [6] Document the following information regarding the spill or unplanned release in the Logbook:
- Timeline of spill/unplanned release response as it occurs.
  - Nature and extent of the spill/unplanned release (i.e., inside a building, on asphalt, nearest watercourse/drainage area, proximity to SWMU/AOC and/or outfalls).
  - Steps taken to contain the spill.
  - Samples collected, if any. Include number, type, location, and analysis.
  - Spill and control equipment used to remediate the spill.
  - Corrective actions completed and the amount of waste material.

#### **4.2 Non-Emergency Spill or Unplanned Release**

The Spill Investigator will respond to non-emergency spills/unplanned releases when notified. Non-emergency spills/unplanned releases typically include potable water leaks; sanitary wastewater leaks, spills, overflows; and small volumes of known chemicals (e.g., hydraulic fluid leaks, vehicle oil leaks). Non-Emergency Spills/Unplanned Releases are typically handled by a designated FOD representative (i.e., operations, maintenance), DEP, or WMC assigned to the area. The following provides the steps a Spill Investigator will follow when responding a non-emergency spill/unplanned release.

##### **Spill Investigator/On Call**

- [1] Coordinate with the FOD designee and/or waste management coordinator to visit the location of the spill/unplanned release.
- [2] Travel to the location of the spill/unplanned release.



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### **CAUTION**

The Spill Investigator may respond to the spill or unplanned release and determine whether the containment and remediation is beyond the capability of the designated FOD representative, DEP, and/or WMC to respond. The EOC should be contacted if additional technical expertise or materials are needed to remediate the release.

- [3] Assess and evaluate the nature and extent of the release as follows:
  - [a] If the spill/release is a small volume or known material (e.g., sanitary waste, potable water, small hydraulic leak), proceed to step 4.
  - [b] If the spill/release is an unknown (e.g., leaking fluid from a metal recycling bin, drum, battery, or other container), stop work and notify the EOC at 667-2400.
  - [c] If the spill/release is a hazardous material or large volume of petroleum product (i.e., battery acid, chemical tank, fuel, hydraulic fluid, oil), stop work and notify the EOC at 667-2400.
  - [d] If the spill/release appears to be beyond the capability of the designated FOD representative, DEP, and/or WMC to contain and/or remediate, the Spill Investigator shall stop work and notify the EOC at 667-2400 to obtain the appropriate resources.
- [4] Provide guidance to the FOD designee and/or waste management coordinator regarding the containment and/or cleanup of the release. Examples of the types of guidance provided include the following:
  - [a] Provide the final inspection of the site to ensure that corrective actions were adequate and are complete.
  - [b] Recommend corrective actions.
  - [c] Inspect the site to ensure that the extent of the spill/unplanned release is adequately defined.
  - [d] Recommend how to stabilize the site for further remediation (i.e., secure the site from storm water).
  - [e] Identify watercourse boundaries near the spill/unplanned release.
  - [f] Determine if samples need to be collected.
  - [g] Recommend sample types and analysis.
  - [h] Recommend sample locations and the number of samples to determine extent of condition.
- [5] If sample collection is required, have the DEP/WMC contact WM-SVS and complete a RFA, <http://int.lanl.gov/environment/waste/sampling.shtml>, to schedule sampling. Specify the analytical suite and turn-around time needed for the sample in the RFA.

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- [6] Document the following information regarding the spill or unplanned release in the Logbook:
  - Timeline of spill/unplanned release response as it occurs.
  - Nature and extent of the spill/unplanned release (i.e., inside a building, on asphalt, nearest watercourse/drainage area, proximity to SWMU/AOC and/or outfalls).
  - Steps taken to contain the spill.
  - Samples collected, if any. Include number, type, location, and analysis.
  - Spill and control equipment used to remediate the spill.
  - Corrective actions completed and the amount of waste material.
- [7] Coordinate and document all required follow up corrective actions with the FOD designees, DEP, and/or WMC.
- [8] Determine the applicable internal and external reporting requirements as outlined in Section 4.3.

### 4.3 Reporting Spills and/or Unplanned Releases

This section describes how to determine whether an unplanned release, spill, or other event needs to be reported under environmental regulations and how to fulfill all immediate reporting requirements (within the first 24-hours).

#### 4.3.1 Immediate Notification

##### Spill Investigator/On Call Spill Responder

- [1] Identify which of the following internal stakeholders that should receive a report of the spill/unplanned release:
  - EPC-CP Group and Division Management
  - Compliance Subject Matter Experts (SME). This includes Resource Conservation and Recovery Act, National Pollution Discharge Elimination System, Storm water, Groundwater, and/or Waste Management compliance personnel that potentially have permit specific reporting requirements.
  - FOD where the spill/unplanned release occurred.
  - Designated FOD Representative (i.e., DEP, Operations, and Maintenance).

#### **CAUTION**

Spills/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.

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- [2] Identify the verbal and written EXTERNAL reporting requirements in accordance with [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases](#).

#### **4.3.2 Non-Reportable Spills/Unplanned Releases**

##### **Spill Investigator/On Call Spill Responder**

- [1] Notify the internal stakeholders (i.e., EPC-CP, SME, FOD, and designated FOD Representative) by phone and/or email (Attachment 1). Include the following pertinent facts as recorded in the logbook:
- Date, Time, Location of the release.
  - Quantity and type of material.
  - Status of corrective actions.
- [2] Document the spill/unplanned release in the spills database.
- [3] Document spills/unplanned releases that are NOT reportable to an external regulatory agency on EPC-CP-QP-1007-Form 1, Unplanned Release Report (Attachment 2).
- [a] If the Form 1 is completed by a DEP or other designated FOD representative, request a copy of the signed form.
- [b] Attach completed EPC-CP-QP-1007-Form 1 to the spill database record.
- [4] Submit copies of the accumulated EPC-CP-QP-1007-Form 1's, (annually), to records in accordance with [ADESH-AP-006, Records Management](#).

#### **4.3.3 Reportable Spills/Unplanned Releases**

##### **Spill Investigator/On Call Spill Responder**

- [1] Notify the internal stakeholders (i.e., EPC-CP, SME, FOD, and designated FOD Representative) by phone and/or email (Attachment 1). Include the following pertinent facts as recorded in the logbook:
- [a] Date, Time, Location of the release.
  - [b] Quantity and type of material.
  - [c] Status of corrective actions.
- [2] Notify National Nuclear Safety Administration (NNSA)/Los Alamos Site Office (LASO).
- [3] Perform the required EXTERNAL verbal notifications to the appropriate regulatory agencies (i.e., New Mexico Environment Department [NMED], Environmental Protection Agency [EPA]) in accordance with [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases](#).

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- [4] Document spills/unplanned release on EPC-CP-QP-1007-Form 2, *7/15 Day Release Report* (Attachment 3).
  - [a] Ensure that the EPC-CP-QP-1007-Form 2 is reviewed and assigned an LA-UR document release number.
  - [b] Attach the final EPC-CP-QP-1007-Form 2 to the spill database record.
  - [c] Submit the final EPC-CP-QP-1007-Form 2 as an e-mail attachment to the appropriate regulatory agency.
  - [d] Submit a copy of the EPC-CP-QP-1007-Form 2 to the internal stakeholders and NNSA/LASO.
- [5] Document the spill/unplanned release in the spills database.
- [6] Attach completed EPC-CP-QP-1007-Form 2 to the spill data base record.
- [7] Electronically file a copy of the EPC-CP-QP-1007-Form 2 in Spills folder located at ENV(\\dcstorage.lanl.gov):\\CP\\WQ\\WQCC COMP PROG.
- [8] Submit copies of the accumulated EPC-CP-QP-1007-Form 2's, (annually), to records in accordance with [ADESH-AP-006, Records Management](#).

## 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 [ADESH-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. The following records are generated by this procedure.

Record Title	QA Record	Non-QA Record
EPC-CP-QP-1007 Form 1, <i>EPC-CP Unplanned Release Report</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
EPC-CP-QP-1007 Form 2, <i>EPC-CP 7/15 Day Release Report</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correspondence (i.e., E-mail Notifications to LANL Management, DOE, and other EPC-CP permit subject matter experts)	<input type="checkbox"/>	<input checked="" type="checkbox"/>



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Correspondence - E-mail Submittals of 7/15 Day Release Reports to NMED	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Logbook	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## 7.0 DEFINITIONS AND ACRONYMS

### 7.1 Definitions

See LANL [Definition of Terms](#).

**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

See LANL [Acronym Master List](#).

AOC	Area of Concern
DEP	Deployed Environmental Professional
EMD-EO	Emergency Management Division -Emergency Operations Group
EOC	Emergency Operations Center
EPC-CP	Environmental Protection and Compliance Group
FOD	Facility Operations Directorate
LAC	Los Alamos County
LANL or the Laboratory	Los Alamos National Laboratory
LASO	Los Alamos Site Office (LASO).
N3B	Newport News Nuclear BWXT Los Alamos
NMED	New Mexico Environment Department
NNSA	National Nuclear Safety Administration
PIP	Program Implementation Plan
PPE	Personal Protective Equipment
SWMU	Solid Waste Management Unit
TPP	Training Program Plan
WMC	Waste Management Coordinator
WQCC	Water Quality Control Commission
SME	Subject Matter Expert

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## 8.0 REFERENCES

ADESH-AP-006, Records Management Plan

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:** Release Notification Phone 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*

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## **Attachment 1: Release Notification Phone List**

### **Los Alamos National Laboratory**

- |   |                |
|---|----------------|
| (1) Emergency Operations Support Center | (505) 667-2400 |
| (2) EPC-ES Group Office                 | (505) 665-8855 |
| (3) EPC-CP Group Office                 | (505) 667-0666 |
| (4) EPC-DO                              | (505) 667-2211 |
| (5) EPC-CP Spills Pager                 | (505) 664-7722 |

### **New Mexico Environment Department**

- |  |                  |
|--|------------------|
| (1) NMED Emergency Hotline (24 hours a day)                | (505) 827-9329   |
| (2) NMED Non-Emergency Hotline (Voicemail; 24 hours a day) | 1 (866) 428-6535 |
| (3) NMED Surface Water Quality Bureau                      | (505) 827-0187   |
| Jennifer Foote   | (505) 827-0596   |
| (4) NMED Ground Water Quality Bureau                       | (505) 827-2900   |
| Gerald (Jake) Knutson                                      | (505) 827-2996   |
| Steve Pullen   | (505) 827-2962   |
| (5) NMED Hazardous Waste Bureau                            | (505) 476-6000   |
| Stephen Connolly   | (505) 476-6025   |

### **U.S Environmental Protection Agency**

- |   |                  |
|---|------------------|
| (1) US EPA Region 6 Spill Reporting (During business hours) | 1 (800) 887-6063 |
| Emergencies- Contact the NRC                                | 1 (800) 424-8802 |
| (2) Nancy Williams  | 1 (214) 665-7179 |

### **Los Alamos Fire Department**

(505) 662-8301

### **U.S. Department of Energy**

- |                  |                |
|------------------|----------------|
| (1) Karen Armijo | (505) 665-7314 |
|------------------|----------------|

### **Newport News Nuclear BWXT Los Alamos (N3B)**

- |                           |                |
|---------------------------|----------------|
| (1) N3B Operations Center | (505) 551-2954 |
|---------------------------|----------------|

### **New Mexico State Police**

- |                         |                |
|-------------------------|----------------|
| New Mexico State Police | (505) 827-9604 |
|-------------------------|----------------|

### **EPC-CP On-Call Environmental Representative for Release Assessment and Notifications to External Agencies**

- |                   |                         |
|-------------------|-------------------------|
| (1) Terrill Lemke | (505) 665-2397 (Office) |
|                   | (505) 699-0725 (Cell)   |
| (2) Steve Pearson | (505) 667-3005 (Office) |
|                   | (505) 699-3684 (Cell)   |
| (3) Mike Saladen  | (505) 665-6085 (Office) |
|                   | (505) 699-1284 (Cell)   |
| (4) Tim Zimmerly  | (505) 664-0105 (Office) |
|                   | (505) 699-7621 (Cell)   |

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## Attachment 2: Unplanned Release Report, EPC-CP-QP-1007-Form 1

<b>Los Alamos National Laboratory</b> <b>Environmental Compliance Program (EPC-CP)</b> <b>Unplanned Release Report</b>		
<b>Form Completed By:</b>		<b>Telephone:</b>
<b>Spill Owner Details (Specify):</b>		<b>Group:</b>
<input type="checkbox"/> TRIAD, LLC	<input type="checkbox"/> Subcontractor:	<input type="checkbox"/> Other:
<b>Date of Spill/Date Spill Discovered:</b>		
<b>Location:</b>		
<b>Material Spilled:</b>		
<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Anti-freeze/coolant	<input type="checkbox"/> Refrigerant Oil
<input type="checkbox"/> Potable Water	<input type="checkbox"/> Steam Condensate	<input type="checkbox"/> Gasoline
<input type="checkbox"/> Diesel	<input type="checkbox"/> Lubricants/Oils	<input type="checkbox"/> Other:
<b>Volume Spilled:</b>	<b>Waste Volume Generated:</b>	
<b>Source of Spill:</b>	<input type="checkbox"/> Potable Water Line	<input type="checkbox"/> Radiator
Vehicle ID:	<input type="checkbox"/> Fire Suppression System	<input type="checkbox"/> Condensate Line
Equipment ID:	<input type="checkbox"/> Fuel Tank	<input type="checkbox"/> 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:		
<b>Date Corrective Actions Completed:</b>		
Did the spill enter or impact any of the following? (Check as many as apply)		<input type="checkbox"/> Floor Drain, if so please indicate affected facility
<input type="checkbox"/> RCRA Treatment Storage Disposal Facility		<input type="checkbox"/> Watercourse/drainage area, if so please indicate
<input type="checkbox"/> RCRA Satellite Accumulation Area		<input type="checkbox"/> Solid Waste Management Unit/Area of Concern, if so please indicate
<input type="checkbox"/> RCRA <90 Day Storage Area		<input type="checkbox"/> None
<input type="checkbox"/> NPDES MSGP Facility		
Did the spill occur inside or outside a building? <input type="checkbox"/> Inside <input type="checkbox"/> Outside		
<b>Did the spill occur on:</b> (Check as many as apply)		
<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	
<input type="checkbox"/> Carpeted Floor	<input type="checkbox"/> Graveled/Rocky Area	
<input type="checkbox"/> Tile	<input type="checkbox"/> Soil/Vegetated Area	
<input type="checkbox"/> Wooden Floor/Deck	<input type="checkbox"/> Other:	
<b>Samples Collected:</b>		
<input type="checkbox"/> None	<input type="checkbox"/> Soil	If samples were collected, indicate analytical suite:
<input type="checkbox"/> Water	<input type="checkbox"/> Air	
<input type="checkbox"/> Other:		
<b>Certification</b>		
I certify that I am knowledgeable about the information on this form. The information, to my knowledge, is true, accurate, and complete.		
<b>Name of Certifying Official:</b>	<b>Organization:</b>	<b>Date:</b>
Certification:		
<b>Completed by EPC-CP Personnel</b>		<input type="checkbox"/> Non-Reportable
<b>Date Received:</b>	<b>Severity Index:</b>	<input type="checkbox"/> Reportable
<b>Causal Analysis:</b>		
EPC-CP-QP-1007 Form 1		
Return Completed Form to EPC-CP (spearsen@lanl.gov)		
11/2019		



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**Attachment 3: 7/15 Day Release Report, EPC-CP-QP-1007-Form 2**

<b>RELEASE / DISCHARGE NOTIFICATION</b> LOS ALAMOS NATIONAL LABORATORY LA-UR- <span style="border: 1px solid black; padding: 0 20px;"> </span>		Calendar Year <div style="border: 1px solid black; padding: 5px; font-size: 24px; width: 80px; margin: 0 auto;">2020</div>
Permit Number: NM0028355		

---

NPDES or Operational Spill/Release <input checked="" type="checkbox"/> ER Spill/Release <input type="checkbox"/> Other Spill/Release <input type="checkbox"/>	Indicate with "X" in appropriate box.	Release ID Number: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
---	---------------------------------------	---

---

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: <span style="border: 1px solid black; display: inline-block; width: 60px; height: 20px;"></span>	Discharge Discovered: <span style="border: 1px solid black; display: inline-block; width: 60px; height: 20px;"></span>	Discharge Stopped: <span style="border: 1px solid black; display: inline-block; width: 60px; height: 20px;"></span>
Date & Time	Date & Time	Date & Time

Cleanup Started: <span style="border: 1px solid black; display: inline-block; width: 60px; height: 20px;"></span>	Cleanup Completed: <span style="border: 1px solid black; display: inline-block; width: 60px; height: 20px;"></span>
Date & Time	Date & Time

**Material(s) Released / Discharged:**

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**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:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NMED/SWQB:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NMED/GWQB:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NMED/HRMB:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NMED/DOE-OB:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
EPC-CP:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
DOE:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
OTHER:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
OTHER:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Comments:**

**Form Completed By:**

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#### **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***



<b>EPC-CP-QP-2110</b>	Revision: <b>0</b>	
Effective Date: 01/07/2020	Next Review Date: 01/07/2023	

**Environment, Safety, Health, Quality, Safeguards, and Security 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	1-6-2020

**Derivative Classifier:**    ☒ **Unclassified** or ☐ \_\_\_\_\_

Name:	Organization:	Signature:	Date:
Steven E. Wolfel	EPC-CP	Signature on File	1-6-2020

**Approval Signatures:**

EPC-CP Reviewer:	Organization:	Signature:	Date:
Terrill W. Lemke, Team Leader	EPC-CP	Signature on File	1-7-2020
EPC-CP RLM:	Organization:	Signature:	Date:
Taunia Van Valkenburg, Group Leader	EPC-CP	Signature on File	1-7-2020

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#### REVISION HISTORY

<b>Document Number and Revision</b> <i>[Include revision number, beginning with Revision 0]</i>	<b>Effective Date</b> <i>[Document Control Coordinator inserts effective date]</i>	<b>Description of Changes</b> <i>[List specific changes made since the previous revision]</i>
EPC-CP-QP-2110, Rev. 0	01/07/2020	New document

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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 of 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 included in a SWPPP. The SWPPP is intended to document the selection, design, and installation of control measures to meet permit effluent limits. Additional documentation required by the Permit is to be kept with the SWPPP (including inspection maintenance, monitoring, and corrective action) and is intended to document the implementation of permit requirements.

### 1.2 Scope

This procedure contains information and specific steps for preparing a SWPPP, and identifying and documenting conditions in order to meet Permit requirements. Part 5 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. Part 5.5 describes the additional documentation required to be kept with the SWPPP.

### 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 5 of the Permit contains the specific requirements for developing, maintaining, and revising a SWPPP. At a minimum, the SWPPP must contain the following elements:

- Stormwater pollution prevention team (Stormwater PPT);
- Site description (including a site map);
- Summary of potential pollutant sources;
- Description of control measures;



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- 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 R0 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.

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- [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 Storm Water 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. See 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, Subsection 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. The RASSTI system adds a cover page to the document containing the LA-UR number, which obviates all electronic signatures due to the document change.

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#### 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 Public Reading Room internet web page. Refer to Part 5.4 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] Identify a derivative classifier to review the document.
  - [c] Identify the document for a **full classification review**. The Designated Unclassified Subject Area, or DUSA, system may **NOT** be used.
  - [d] Identify a line manager for an approval signature.
  - [e] 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 5.5 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;

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**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 control measures (refer to Part 2.1.2.3 of the Permit);
- All inspections, including Routine Facility Inspections and Quarterly Visual Assessments (refer to Parts 3.1.2 and 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 3.2.3 and 6.1.5 of the Permit);
- Corrective action documentation (refer to Part 4.4 of the Permit);
- Documentation of any benchmark exceedances and the type of response to the exceedance employed;
- 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.

## 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 4.1 and 4.2 of the Permit).

The SWPPP must also be modified based on corrective actions and deadlines required under Part 4.3 of the Permit, and documented in accordance with Part 4.4 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 control measures.
  - Sources of pollution.



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- 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 of the Permit);
  - Controls measures are not stringent enough for discharge to 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, BMP removal or installation, outfall removal or creating a new outfall, changing drainage pathways or the path of stormwater flow.
- The average of four quarterly sampling results exceeds an applicable benchmark.
- NOTE 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 this is considered a benchmark exceedance.
- [3] The Stormwater PPT must determine the modification(s) to be made to implement or maintain 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, Subsection 11 of the Permit.

## 6.0 TRAINING

The following personnel require training before implementing this procedure.

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- Deployed Environment, Safety, and Health Group and Team Leaders
- 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 as assigned and documented in accordance with ADSH-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.

## 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.

Below, are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
Stormwater Pollution Prevention Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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 BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

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## 8.2 Acronyms

See LANL [Acronym Master List](#).

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
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)

Federal Register, Final National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Activities. Federal Register: June 16, 2015, Volume 80, Number 115

Clean Water Act, Title 33 U.S.C. 1251

## 10.0 ATTACHMENTS

**Attachment 1:** EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template* Example

**Attachment 2:** *MSGP SWPPP Review Guidance Checklist* Example

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## MSGP Stormwater Pollution Prevention Plan

**Insert Facility Name**

Triad National Security, LLC  
Los Alamos National Laboratory

**XX/XX/XXXX**

**Revision X**



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EXAMPLE

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**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, June 2015) 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 [Triad National Security, LLC (Triad)]. Click here to view contents of the [2015 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 June 4, 2020.

**1.0 FACILITY DESCRIPTION**

**1.1 Facility Information**

Name of Facility: <b>(Insert facility name e.g., TA-3-22 Power and Steam Plant)</b>		
Street: P.O. Box 1663		
City: Los Alamos	State: NM	ZIP Code: 87545
County: Los Alamos		
NPDES ID (i.e., permit tracking number): NMR050013		
Primary Industrial Activity SIC code, and Sector and Subsector (2015 MSGP, Appendix D and Part 8): SIC XXXX, Sector X, Subsector XX		
Estimated area of industrial activity at site exposed to stormwater: XX acres		
<b>Discharge Information</b>		
Name(s) of surface water(s)/segment that receives stormwater from your facility: Sandia Canyon (Sigma Canyon to NPDES outfall 001). 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 2015 MSGP, Appendix A)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Pollutants causing the impairment: <b>(Insert pollutants: list can be found in the Triad Notice of Intent (NOI))</b>		

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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) (2015 MSGP Table 1-1)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
<b>Group Leader:</b> Name Title, Organization	Responsible for the management of all environmental, safety, health, and quality programs for the yards, buildings and facilities within this Plan. This includes performing oversight and periodic walk downs to ensure implementation of the requirements of the MSGP and this SWPPP including overseeing the assigned duties of other PPT members. The Group Leader is responsible for ensuring problems noted during inspections are corrected. The Group Leader must also ensure adequate resources are obtained to ensure compliance requirements of the MSGP and this SWPPP are met.
<b>Deployed Environmental Professional (DEP):</b> Name Title, Organization	Responsible for the management 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 to facility and operations personnel 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.
<b>Facility Operations Division (FOD) Manager:</b> Name 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



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	the FOD propose new processes, operations, features, or a new site that may be subject to the MSGP.
<b>EPC Core:</b> <b>Name</b> <b>Title, Organization</b>	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.
<b>Operations Manager(s):</b> <b>Name</b> <b>Title, Organization</b>	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 and the TA-3-22 Power and Steam Plant), main structures, activities, outfalls, and substantially identical outfalls.

### 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 2015 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.

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- **Direction of stormwater flow and site drainage.** Direction of flow is indicated with arrows.
- **Locations of stormwater control measures.**
- **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 in 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



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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.

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-022, *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

The following tables provide monitoring data at the facility for the past X years.

Permitted Facility: (insert facility name)

Calendar Year XXXX

Contact MSGP Program Lead to obtain this information formatted for insertion.

**Note:** This information will be updated every year during the annual SWPPP update, to include the 3 most current years of monitoring data.

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### **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 2015 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. The condition requiring corrective action will remain open until proper maintenance or



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corrective action has been completed. CAR information, along with documentation of maintenance/repair of control measures, is in Attachment 9 of the SWPPP.

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-022, *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-101, *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-007, *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 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.

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**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 2015 MSGP and if benchmark monitoring is or is not required.

If the permit does identify sector-specific requirements for the facility, 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 controls measures used to ensure discharges from industrial activities meet the water quality standards.

Refer to Section 4.7 for specific actions that will be taken when a water quality standard is exceeded.

**4.0 SCHEDULES AND PROCEDURES**

Preventative maintenance of control measures used to comply with the Permit effluent limits can avoid situations that result in discharges to the environment. Part 5.2.5 of the 2015 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**

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



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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 2015 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, Deployed Environment Safety and Health (DESH) Group Leader 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.).

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 U-TRAIN database. Informal briefings, such as those included in-group safety meetings are not typically recorded in U-TRAIN. Sign-in sheets are used to document attendance and will be kept on file in Attachment 11 of this SWPPP.

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:

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- 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-023, *MSGP Routine Facility Inspections* (Attachment 16).

Visual assessments are conducted in accordance with EPC-CP-QP-064, *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 2015 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 Outfalls (SIOs); 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)



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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 2015 MSGP (Part 3.1.2.).

### 4.6.2 Quarterly Visual Assessments

Once each quarter, (April 1-May 31, June 1-July 31, August 1-September 30, October 1-November 30) a stormwater sample is obtained and visual assessment performed at each outfall, if a measureable 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.

Exceptions to visual assessments:

- 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 substantially identical outfalls, quarterly visual assessments may be performed at only one of the outfalls, provided that you perform visual inspections on a rotating basis at each substantially identical outfall.

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 2015 MSGP (Part 3.2.2).

### 4.7 Monitoring

Analytical monitoring comprised of Impaired Waters [insert Effluent Limitation Guideline monitoring for industrial activity identified in Tables 1-1 and 6-1 of the 2015 MSGP (for example the Asphalt Batch Plant)] monitoring is performed annually on stormwater discharges from the site. Benchmark constituents are monitored quarterly. 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

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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 outfall 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 outfalls. If the facility has multiple maps, reference them all.

Monitoring will continue annually for constituents associated with impaired waters until a constituent is no longer detected in stormwater samples.

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 6.2 of the 2015 MSGP);
- 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



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- 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.

Insert information on quarterly benchmark and annual Impaired Waters or Effluent Limitation Guideline monitoring required for facility and benchmark pollutants to be sampled.

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

- EPC-CP-QP-047, *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 9.6.2.1 of the 2015 MSGP.

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**Summary of Monitoring Requirements**

Outfalls: (insert outfall numbers)

Contact MSGP Program Lead to obtain this information formatted for insertion.

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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 5.2.2 of the 2015 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-17-29454) was last updated in October 2017 (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 August, 2015 and December 2008, the Cultural Resources Team (using GPS spatial data as well as conducting visual inspections), reviewed the Laboratory industrial sites (see list below) and their associated outfalls and monitoring stations subject to the 2015 Multi-Sector General Permit (Permit #NMR050000) 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-3-22 Power and Steam Plant
- TA-3-38 Metals Fabrication Shop
- TA-3-38 Wood Shop
- TA-3-39 and 102 Metal Shop
- TA-3-66 Sigma Complex
- TA-60 Asphalt Batch Plant
- TA-60-1 Heavy Equipment Yard
- TA-60 Material Recycle Facility
- TA-60 Roads and Grounds
- TA-60-2 Warehouse
- TA-54 RANT

## **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) is reviewed and



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revised (as appropriate). The purpose is to ensure effluent limits of the 2015 MSGP permit are met and pollutant discharges are minimized:

- 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;
- Control measures are not stringent enough for the discharge to meet applicable water quality standards or non-numeric effluent limits;
- 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 4.7); or
- If an impaired water constituent exceeds the NM Water Quality criterion (see Section 4.7).

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

#### **6.1 Immediate Actions**

When a condition requiring corrective action is identified, all reasonable steps necessary to minimize or prevent the discharge of pollutants are immediately taken (i.e. spill clean-up, scheduling repairs) until a permanent solution (if needed) can be implemented. Immediate action means all reasonable steps are taken the same workday or no later than the following workday (when it is too late in the day to take corrective action).

#### **6.2 Subsequent Actions**

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

#### **6.3 Corrective Action Documentation**



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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 stormwater control measures (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-022, *MSGP Corrective Actions* can be found in Attachment 17.

### 7.0 ACRONYMS

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
PPT	Pollution Prevention Team
SWPPP	Stormwater Pollution Prevention Plan
URL	Uniform Resource Locator

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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 submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature \_\_\_\_\_

(Insert Printed Name)

(Insert Title)

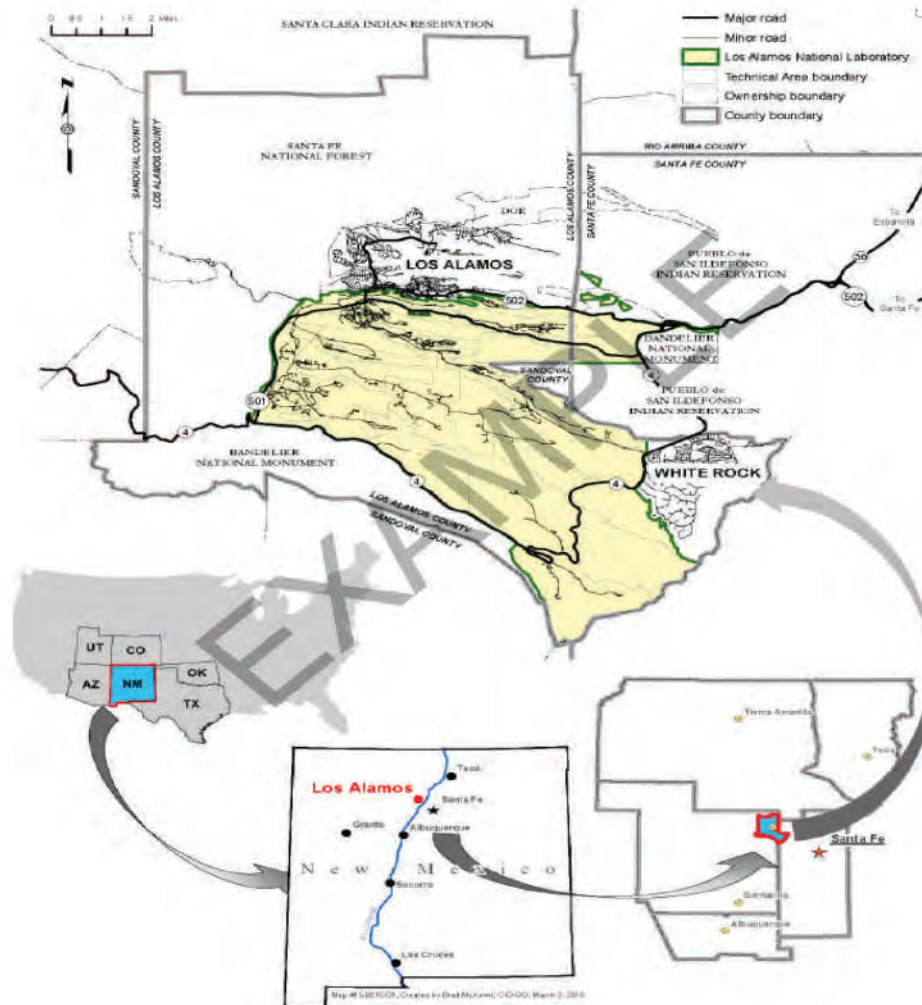
Date \_\_\_\_\_

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**FIGURE A: GENERAL LOCATION MAP**



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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.

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

Insert the appropriate attachment. 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.

EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 38 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
(Page 27 of 50)

Insert Facility Name  
 MSGP Stormwater Pollution Prevention Plan  
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 Revision X, Date

**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

EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 39 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
(Page 28 of 50)

Insert Facility Name  
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**ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES**

Insert the appropriate attachment.

EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 40 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)**  
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Insert Facility Name  
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**ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM**

Insert the appropriate attachment.

**EXAMPLE**



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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
(Page 30 of 50)

**ATTACHMENT 5: DISCHARGE MONITORING REPORTS**

Insert the discharge monitoring reports.

Insert Facility Name  
MSGP Stormwater Pollution Prevention Plan  
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EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 42 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
(Page 31 of 50)

Insert Facility Name  
 MSGP Stormwater Pollution Prevention Plan  
 Document Reference Number  
 Revision X, Date

**ATTACHMENT 6: ANNUAL REPORTS**

Insert the annual reports. The MSGP Program Lead provides these.

EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 43 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)**  
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**ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS**

**Insert completed Routine Facility Inspection forms.**

Insert Facility Name  
MSGP Stormwater Pollution Prevention Plan  
Document Reference Number  
Revision X, Date

EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 44 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
(Page 33 of 50)

Insert Facility Name  
 MSGP Stormwater Pollution Prevention Plan  
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 Revision X, Date

**ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS**

Insert completed Quarterly Visual Assessment forms. EPC-CP provides these by memorandum as they are produced.

EXAMPLE



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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
(Page 34 of 50)

Insert Facility Name  
 MSGP Stormwater Pollution Prevention Plan  
 Document Reference Number  
 Revision X, Date

**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.

EXAMPLE



<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 47 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
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Insert Facility Name  
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**ATTACHMENT 11: TRAINING DOCUMENTATION**

Insert the appropriate documentation.

**EXAMPLE**

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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)**  
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Insert Facility Name  
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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 2015 MSGP is kept on file with the SWPPP in hard copy.

The active URL for the permit is <https://www.epa.gov/npdes/final-2015-msgp-documents>

EXAMPLE



<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 49 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)**  
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Insert Facility Name  
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 Document Reference Number  
 Revision X, Date

**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.

EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 50 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 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 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.

EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 51 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
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Insert Facility Name  
 MSGP Stormwater Pollution Prevention Plan  
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 Revision X, Date

**ATTACHMENT 15: EPC-CP-PIP-2101, NPDES MULTI-SECTOR GENERAL PERMIT**

Insert the appropriate plan into this SWPPP. Ensure the most current revision of this plan is inserted.

**EXAMPLE**

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 52 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
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Insert Facility Name  
 MSGP Stormwater Pollution Prevention Plan  
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**ATTACHMENT 16: EPC-CP-QP-023, MSGP ROUTINE FACILITY INSPECTIONS**

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE



<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 53 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
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Insert Facility Name  
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 Document Reference Number  
 Revision X, Date

**ATTACHMENT 17: EPC-CP-QP-022, MSGP CORRECTIVE ACTIONS**

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 54 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 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 18: EPC-CP-QP-064, MSGP STORMWATER VISUAL ASSESSMENTS**

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 55 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
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Insert Facility Name  
 MSGP Stormwater Pollution Prevention Plan  
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**ATTACHMENT 19: EPC-CP-QP-047, INSPECTING STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP**

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 56 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
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Insert Facility Name  
 MSGP Stormwater Pollution Prevention Plan  
 Document Reference Number  
 Revision #, Date

**ATTACHMENT 20: EPC-CP-QP-2106, PROCESSING MSGP STORMWATER SAMPLES**

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE



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**Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)**  
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Insert Facility Name  
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**ATTACHMENT 21: EPC-DO-QP-101, ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS**

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

**EXAMPLE**

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 58 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 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 22: EPC-CP-QP-007, SPILL INVESTIGATIONS**

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 59 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 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 23: EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN PREPARATION AND MAINTENANCE**

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

**EXAMPLE**

<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 60 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 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 24: LOCAL PROCEDURE**

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. If this section is used, ensure the most current revision of the attached procedure is inserted. Delete section if not needed.

**EXAMPLE**



<b>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</b>	No: EPC-CP-QP-2110	Page 61 of 72
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**Attachment 1: EPC-CP-QP-2110 R0 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 25: LOCAL PROCEDURE**

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. If this section is used, ensure the most current revision of the attached procedure is inserted. Delete section if not needed.

EXAMPLE

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**Attachment 2: MSGP SWPPP Review Guidance Checklist Example**  
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MSGP SWPPP Review Guidance Checklist

SWPPP Title		
REQUIREMENT	YES/NO	NOTES
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?		
<ul style="list-style-type: none"> <li>Identify a description of the nature of the industrial activities at the site</li> </ul>		
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:		
<ul style="list-style-type: none"> <li>Boundaries of the property and size of the property in acres</li> <li>Location and extent of significant structures and impervious surfaces</li> <li>Direction(s) of stormwater flow (using arrows)</li> <li>Locations of all stormwater control measures</li> <li>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 LAINL, none)</li> <li>Locations of all stormwater conveyances including ditches, pipes, and swales</li> <li>Locations of potential pollutant sources associated with each industrial activity (see Part 5.2.3.2) that could be exposed to rainfall or snowmelt and could be discharged from the site.</li> <li>Locations where significant spills or leaks have occurred (see Part 5.2.3.3)</li> <li>Location(s) of all stormwater monitoring points</li> <li>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 3.2.3, 5.2.5.3, and 6.1.1)</li> <li>If applicable, location of the MS4 and where your stormwater discharges to it.</li> </ul>		
<b>NOTE:</b> Although LAINL 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:		

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## Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

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### MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
- 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		
<b>Potential Pollutant Sources</b>		
Are areas described in the SWPPP where industrial material or activities are exposed to stormwater or from which allowable non-stormwater discharges originate?		
<b>NOTE 1:</b> <i>Industrial material or activities</i> include material handling equipment or activities; industrial machinery; raw material; industrial production and processes; and intermediate products; by-products; final products, and waste products. <i>Material handling activities</i> 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?		
<b>NOTE 2:</b> 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 <b>potential</b> 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 <b>actually</b> 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 <b>unauthorized non-stormwater discharges</b> (see Part 1.1.3) been done and does it include the following information?		
• Date of the evaluation		
• A description of the evaluation criteria used		
• A list of the outfall or onsite drainages points that were directly observed during the evaluation		



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## Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

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### MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
<ul style="list-style-type: none"> <li>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.</li> </ul>		
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 previous permit term summarized in a narrative description? This may include data tables and figures.		
<b>Control Measures to Meet Effluent Limits</b>		
<b>Does the SWPPP indicate whether the following control measure selection and design criteria were considered?</b>		
<ul style="list-style-type: none"> <li>Preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater</li> </ul>		
<ul style="list-style-type: none"> <li>Using control measures in combination which may be more effective than using control measures in isolation for minimizing pollutants in stormwater discharge</li> </ul>		
<ul style="list-style-type: none"> <li>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</li> </ul>		
<ul style="list-style-type: none"> <li>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</li> </ul>		
<ul style="list-style-type: none"> <li>Attenuating flow using open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows</li> </ul>		
<ul style="list-style-type: none"> <li>Conserving and/or restoring riparian buffers will help protect streams from stormwater runoff and improve water quality</li> </ul>		
<ul style="list-style-type: none"> <li>Using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.</li> </ul>		
Does the SWPPP indicate how the control measure addresses the potential pollutant sources?		
<b>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?</b>		
<ul style="list-style-type: none"> <li><b>Minimize Exposure:</b> 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.</li> </ul>		
<ul style="list-style-type: none"> <li>Use grading, berming or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;</li> </ul>		



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## Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

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### MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
- 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.		
• <b>Good housekeeping</b> (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 wash down 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 1.1.3 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" the 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.		
• <b>Maintenance</b> (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.		
- 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		

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## Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

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### MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
reasonable steps (see Part 4.3.1 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 4.3 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 4.0) 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?		
<ul style="list-style-type: none"> <li>• <b>Spill Prevention and Response</b> - 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. <ul style="list-style-type: none"> <li>- 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.*</li> <li>- Implement procedures for material storage and handling including use of secondary containment and barriers between material storage and traffic areas.</li> <li>- Develop training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases as soon as possible.</li> <li>- Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made</li> <li>- 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 Center (NRC) at (800) 424-8802 in accordance with the above referenced requirements as soon as you have knowledge of the discharge.</li> <li>- In the event of a spill, does the SWPPP indicate where the contact information is so that it is readily accessible and available?</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li>• <b>Erosion and Sediment Controls</b> <ul style="list-style-type: none"> <li>- Does the SWPPP identify how exposed soils will be stabilized to minimize pollutant discharges?</li> <li>- 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?</li> <li>- Does the SWPPP identify structural and non-structural control measure to minimize the discharge of sediment?</li> </ul> </li> </ul>		



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## Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

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### MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
- 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?		
• <b>Management of Runoff</b> - Does the SWPPP identify how stormwater runoff is diverted, infiltrated, reused, contained, or otherwise reduced to minimize pollutants in the discharge?		
• <b>Salt Storage Piles or Piles Containing Salt</b> - 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?		
• <b>Non-Stormwater Discharges</b> - Does the SWPPP indicate that personnel will evaluate the site for non-stormwater discharges not explicitly authorized in Part 1.1.3 or covered by another NPDES permit and eliminate the discharge?		
• <b>Dust Generation and Vehicle Tracking of Industrial Materials</b> - 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?		
<b>Control Measures to Meet Numeric Effluent Limitations Guidelines-Based Limits (see Part 2.1.3 and Part 8)</b>		
Are effluent limitations identified for the Sector D facility (Asphalt Paving) (see Part 8.D.4)?		
Are effluent limitations identified for the Sector A facility (Timber Products) (see Part 8.A.7)?		
<b>Control Measures to Meet Water Quality Based Effluent Limits (see Part 2.2 and Part 9.6.2)</b>		
Are the benchmark values (i.e., the lowest New Mexico Water Quality Standard) listed in MSGP Section 9.6.2.1 identified in the SWPPP?		
<b>Schedules and Procedures - Control Measures</b>		
Does the SWPPP contain a schedule or convention used for determining when pickup or disposal of waste materials occurs?		
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?		
<b>Schedules and Procedures - Employee Training</b>		
Are the following employees identified as requiring training?		

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## Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

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### MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
<ul style="list-style-type: none"> <li>• Personnel who are responsible for the design, installation, maintenance and/or repair of controls (including pollution prevention measures)</li> <li>• Personnel responsible for the storage and handling of chemicals and materials that could become contaminants in stormwater discharges</li> <li>• Personnel who are responsible for conducting and documenting monitoring and inspections</li> <li>• Personnel who are responsible for taking and documenting corrective actions.</li> </ul>		
<b>Are the following identified as elements of required training?</b>		
• 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		
<b>Are the following elements of the training plan documented in the SWPPP?</b>		
• Content of the training		
• Frequency/schedule of training		
Are records of completed training kept in the SWPPP?		
<b>Schedules and Procedures - Inspections and Assessments</b>		
Is the procedure identified for conducting routine facility inspections?		
Is the procedure identified for conducting visual assessments?		
For each type of inspection performed (i.e., routine inspection and visual assessments) does the SWPPP identify the person (s) or 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 3.2.3)?		
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 3.1.1, 3.2.3, 6.2.1.3 and 6.2.4.2. 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.		
<b>Schedules and Procedures - Monitoring</b>		
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?		



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### MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
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 6.1.6)?		
Are numeric control values (benchmark, effluent limitations guidelines, water quality standards) applicable to discharges from each outfall identified?		
Does the SWPPP list procedures for gathering storm event data (see Part 6.1)?		
<b>Schedules and Procedures - Substantially Identical Outfalls (SIOs)</b>		
<b>Does the SWPPP contain the following relative to SIOs?</b>		
• Location of each of the substantially identical outfalls		
• 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 material 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 substantially identical effluents		
Do Substantially Identical Outfalls identified on the SWPPP map match those identified in MDMRs?		
Is there language indicating quarterly visual assessments of substantially identical outfalls will be performed on a rotating basis throughout the permit term?		
Is there language indicating quarterly visual assessment of the discharge at one SIO will also apply to the other SIOs?		
Corrective Action Documentation - If an event triggering corrective action is associated with an SIO, did the review of the need for action encompass all related substantially identical outfalls?		
<b>Documentation</b>		
<b>Does the SWPPP contain the following up-to-date and complete inspection, monitoring, and certification records?</b>		
• 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 3.1.2) and Quarterly Visual Assessment Reports (see Part 3.2.2).		

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### MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
<ul style="list-style-type: none"> <li>• 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 3.2.3 and 6.1.5)</li> </ul>		
<ul style="list-style-type: none"> <li>• Corrective action documentation (see Part 4.4)</li> </ul>		
<ul style="list-style-type: none"> <li>• Documentation of any benchmark exceedances and the type of response to the exceedance employed including the following:               <ul style="list-style-type: none"> <li>- The corrective action taken;</li> <li>- A finding that the exceedance was due to natural background pollutant levels;</li> <li>- A determination from EPA that benchmark monitoring can be discontinued because the exceedance was due to run-on; OR</li> <li>- A finding that no further pollutant reductions were technologically available and economically practicable and achievable in light of best industry practice consistent with Part 6.2.1.2</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li>• 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 6.2.4.1)</li> </ul>		
<ul style="list-style-type: none"> <li>• 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 1.1.4.5).</li> </ul>		
<ul style="list-style-type: none"> <li>• 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 1.1.4.6).</li> </ul>		
<ul style="list-style-type: none"> <li>• All Discharge Monitoring Reports and Annual Reports</li> </ul>		
<ul style="list-style-type: none"> <li>• 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, quarterly visual assessments, benchmark monitoring, and/or impaired waters monitoring.</li> </ul>		
Is the SWPPP signed and dated by a duly authorized representative (per Part B.11)?		
Is the Annual Report signed by a duly authorized representative (per Part B.11)?		
<b>SWPPP Modifications</b>		
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 4.4)?		
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?		



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### MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
<ul style="list-style-type: none"> <li>• 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.</li> <li>• A discharge violates a numeric effluent limit listed in Table 2-1 and in the sector specific requirements.</li> <li>• 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.</li> <li>• 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.</li> <li>• Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam).</li> <li>• 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.</li> <li>• The average of four quarterly sampling results exceeds an applicable benchmark (see Part 6.2.1.2). 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.</li> </ul>		
<b>Public Accessibility of SWPPP</b>		
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?		
<b>If you did not upload your SWPPPs to a URL, was the following information provided in the NOI and documented in the SWPPP?</b>		
<ul style="list-style-type: none"> <li>• Onsite industrial activities exposed to stormwater, including potential spill and leak areas (see Parts 5.2.3.1, 5.2.3.3 and 5.2.3.5);</li> <li>• 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 1.1.3 (see Part 5.2.3.2)</li> <li>• 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.</li> <li>• The schedule for good housekeeping, maintenance, and schedule for all inspections required in Part 3.</li> </ul>		

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**MSGP SWPPP Review Guidance Checklist**

<b>REQUIREMENT</b>	<b>YES/NO</b>	<b>NOTES</b>
Are modifications to the SWPPP information required in the four bullets above submitted on a "Change NOI" form no later than 45 days after conducting the final routine facility inspection for the year?		
<b>Corrective Actions</b>		
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?		