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Salvage/Warehouse

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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 2020

Revision 1

TA-60-02 Salvage/WarehouseMSGP Stormwater Pollution Prevention Plan
Revision 1, January 2020

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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							
Discharge Information							
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)? ⊠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), Deployed Environment, Safety and Health (DESH), the facility, 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
Team/Group Leader:	Responsible for the management of all environmental, safety, health,
	and quality programs for the yards, buildings and facilities listed within
DESH-UIS ESH Manager,	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 directing facility responsible
	managers to correct problems noted during inspections. The Group
	Leader also ensures adequate resources are obtained to ensure
	compliance requirements of the MSGP and this SWPPP are met.
Deployed Environmental	Responsible for the support and oversight of all environmental
Professionals (Primary and	programs and issues for the yards, buildings and facilities listed within
Backup):	this Plan. The DEP is responsible for training, recordkeeping, and
550111165	SWPPP revision. The DEP ensures documentation of inspections and
DESH-UIS Environmental	other required MSGP records relative to the SWPPP are managed in
Professional	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.
FOD Manager/Representative: UI-DO Operations Manager	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.
EPC-CP Core: 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.
Site Manager: 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.

<u>Outfall 026:</u> 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.

<u>Outfall 075:</u> 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:
 - o 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;
 - o machinery; and
 - o 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 1997and 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 the past year (2019) 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
April 2019	A worker temporarily parked a forklift to go into the building and when he returned, a hose on the forklift had sprung a leak, releasing less than a quart of hydraulic fluid. The oil was immediately remediated with dry absorbent and the area was also sprayed with Micro-Blaze®. This process was performed twice. Pig booms were also placed downstream of the spill to absorb any impacted oil in stormwater on site. The spill did not leave the area	None

or reach an outfall. The forklift was taken to Heavy Equipment for	
repairs.	

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 (2019). Prior to November, 2018, LANL was operated by LANS.

Permitted Facility: TA-60-02 Salvage/Warehouse

CY2019

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 stormwater 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 ¹	Total Aroclors	N/A	N/A	N/A	_	Al, Cu
075	N/A	Total Aroclors	N/A	N/A	N/A	_	Al, Cu

¹N/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 (west of SM-38) 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.

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 tmillings/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 is currently a wattle located before the discharge points at Outfalls 026, 027 and 075.

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.

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 flatbed 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-023, MSGP Routine Facility Inspections (Attachment 16).

Visual inspections 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 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-047, Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP (Attachment 19), and
- EPC-CP-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

Outfall	Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte	Filtered/ Unfiltered	Regulatory Standard	Units	Regulatory Standard Type	Regulatory Standard Reference
	Impaired Waters	-	NM-9000.A_047	Al	F10u ¹	1010	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
026	Impaired Waters	-	NM-9000.A_047	Cu	F ²	7	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
	Quarterly Benchmark	Р	No Benchmark Monitoring Required						
	Impaired Waters	-	NM-9000.A_047	Al	F10u ¹	1010	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
075	Impaired Waters	-	NM-9000.A_047	Cu	F ²	7	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
0,3	Quarterly Benchmark	Р	No Benchmark Monitoring Required						

¹F10u – 10 μm filter

²F - 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.

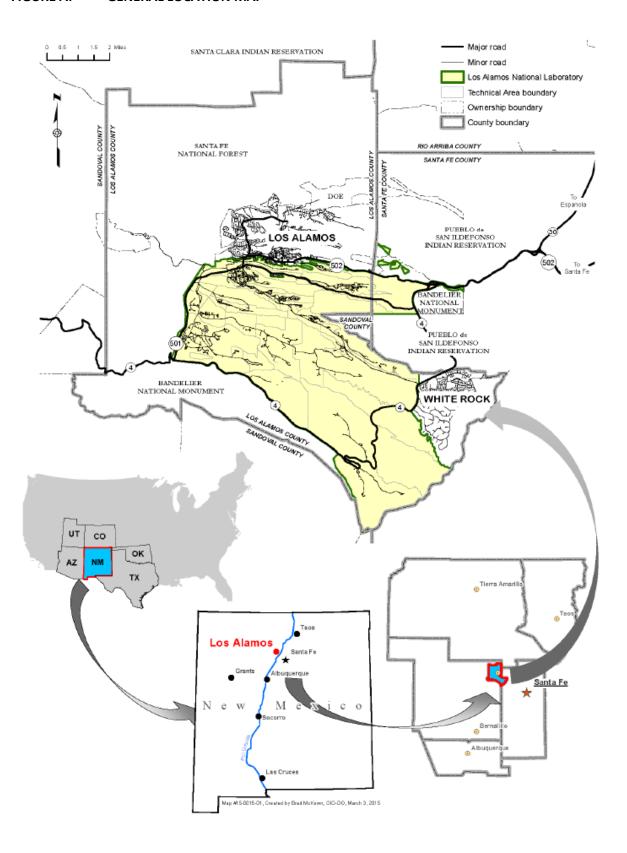
Andrew W. Erickson

Date 1/24/2020

Facility Operations Director

Utilities and Institutional Facilities

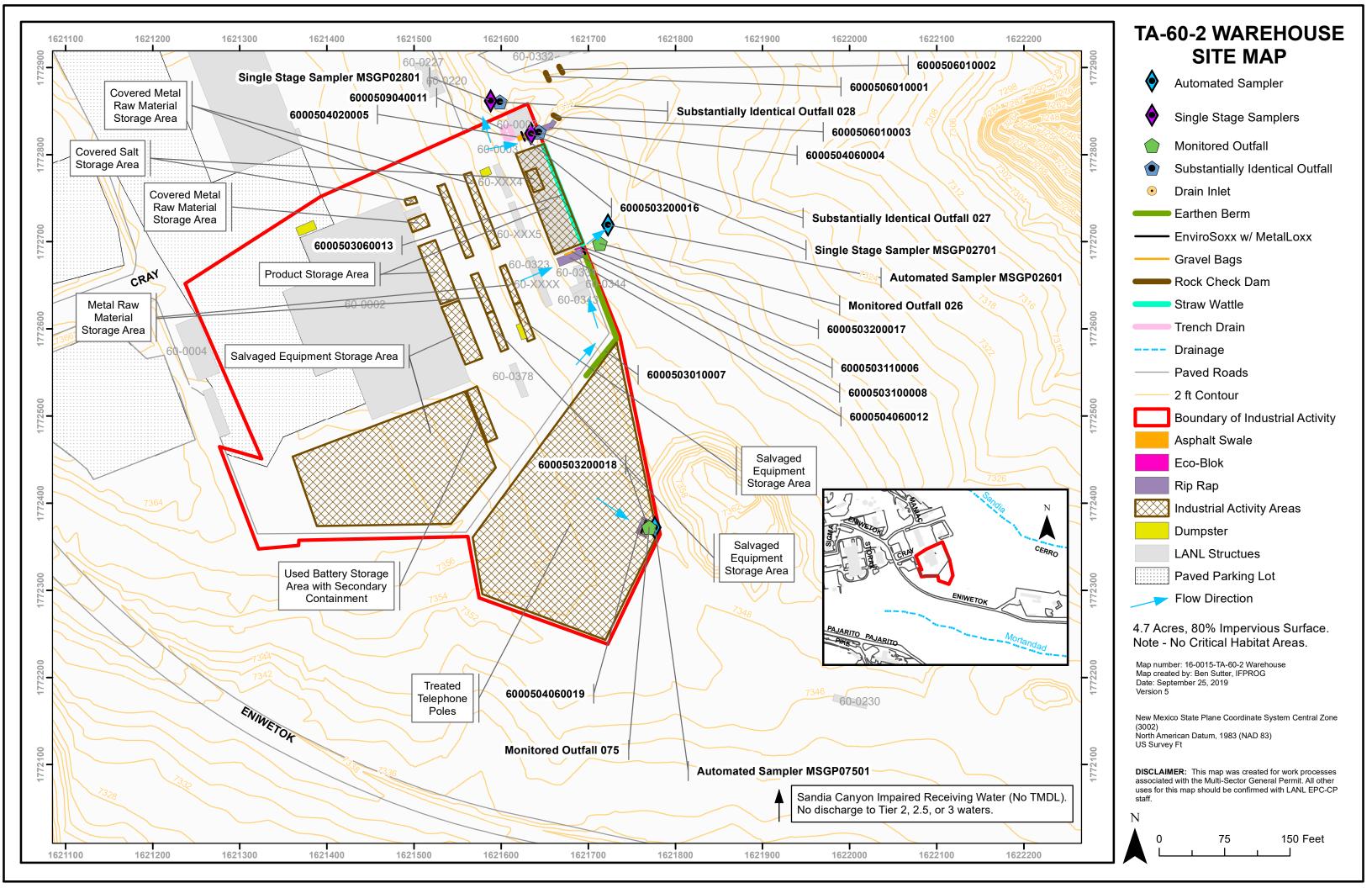
FIGURE A: GENERAL LOCATION MAP



TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

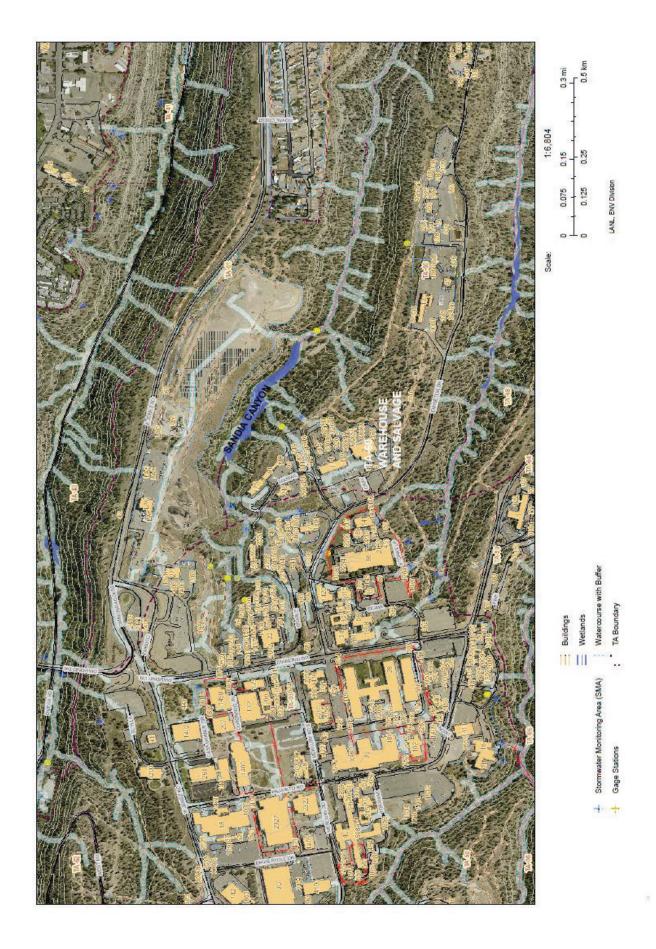
FIGURE B-1: FACILITY SITE MAP



TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

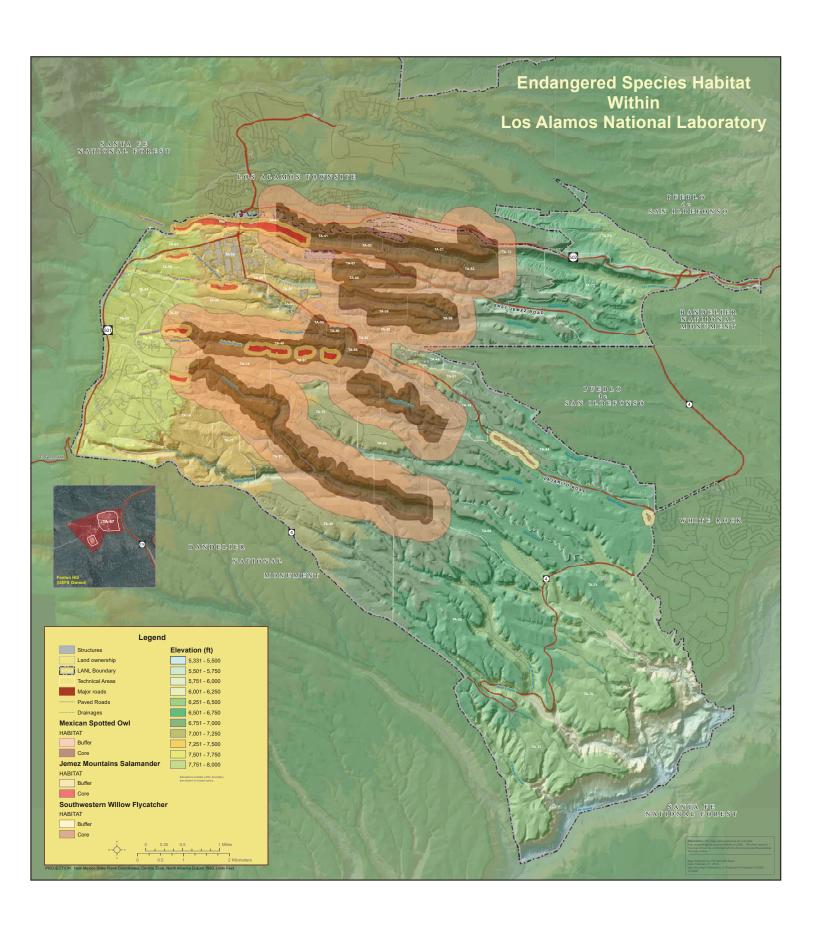
FIGURE B-2: NEARBY RECEIVING WATERS



TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

FIGURE B-3: LANL ENDANGERED SPECIES MAP



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



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:

 $\underline{https://www.epa.gov/npdes/stormwater-discharges-industrial-activities\#ereporting.}$

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

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.

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 0 1 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
- 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 (E-File), adesh-records@lanl.gov (E-File), epc-correspondence@lanl.gov (E-File)

TRIAD National Security, LLC 3

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

EPC-DO: 18-358

LA-UR-18-29182

Date:_____

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 Flagged

Flag Status:

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

EPC-DO: 18-358

1

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

> 3 EPC-DO: 18-358 LA-UR-18-29182

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

EPC-DO: 18-358

Date:	OCT 0 1 2018	

NPDES FORM 3510-6



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT

Form Approved. OMB No. 2040-0004

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.

never eligible for pe	irmit coverage. Refer to the instructions at the end of this form to complete your NOI.
A. Approval to Us	e Paper NOI Form
1. Have you been g	ranted a waiver from electronic reporting from the EPA Regional Office*? 🔳 YES 🔲 NO
If yes, check wh	ich waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:
Waiver grante	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 approve	al obtained: 0 9 / 2 6 / 2 0 1 8
must file this form	uired to obtain approval from the applicable EPA Regional Office prior to using this paper NOI form. If you have not obtained a waiver, you electronically using the NPDES eReporting Tool (NeT) at http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-General-Permit.ctm
B. Permit Informat	ion NPDES ID (EPA Use Only):
1. Master Permit Nun	nber: NMR050000 (see Appendix C of the MSGP for the list of eligible master permit numbers)
2. Are you a new dis	charger or a new source as defined in Appendix A? 🗌 YES 🔝 NO (If yes, skip to Part C of this form).
	ew discharger or a new source, have stormwater discharges from your facility been covered previously under an NPDES permit?
■ YES □ NO	
If yes, provide t permit: Note: F	he NPDES ID if you had coverage under EPA's 2008 MSGP or the NPDES ID if you had coverage under an EPA individual to SG B 2 1 acility had 2015 MSGP coverage under Permit ID NMR053195 with Los Alamos National Security, LLC as operator.
C. Facility Operate	or Information
1. Operator Informat	
Operator Name:	Triad National Security LLC
Mailing Address:	
Street:	PO BOX 1663 MS K490
City:	Los Allamos State: NM ZIP Code: 87545-
County or Similar Go	vernment Subdivision: Los Alamos
Phone:	5 0 5 - 6 6 5 - 2 3 9 7 Ext.
E-mail:	t e m k e @ a n
2. Operator Point of (Contact Information:
First Name, Middle Ini	itial, Last Name: Terrill
litle:	Environmental Manager
3. NOI Preparer Inforr	nation (Complete if NOI was prepared by someone other than the certifier):
First Name, Middle Ini	tial, Last Name: Holly L Wheeler
Organization:	Triad National Security LLC
hone:	5 0 5 - 6 6 7 - 1 3 1 2 Ext.
E-mail;	h b e n s o n @ a n . g o v

D. Facility Information	
1. Facility Name: Los Allamos National Laboratory	
2. Facility Address:	
Street/Location: PO Box 1663	
City: Los Alamos State: NM ZIP Code: 875	5 4 5 -
County or Similar Government Subdivision:	
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	
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 app	plicable):
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, □ Municipal or Water Public/Private) □ District	
7. Estimated area of industrial activity at your facility exposed to stormwater: $\frac{60.50}{}$ (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 se which your facility is primarily engaged, as defined in the MSGP, and the applicable sector and subsector of your primary industrial activ	ervices rendered for
Primary SIC Code: 4212 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: A A Subsector: A A 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 ditions of more of urea on an average annual basis? YES NO	deicing fluids and/or 100
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 🔲 Alumi	inum Ore
	Uranium, Radium, nd/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 t	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 non-stormwater discharges listed in Part 1.1.3. Any discharges not expressly authorized in this permit cannot become authorized or ship under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Not be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NP 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 converted by the permit. Type of the provided in Parts 1.1.2 and 1.1.3 will be discharged.	ielded from liability office of Intent (NOI) to PDES permit coverage
2. Federal Effluent Limitation Guidelines	
Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?	

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Check if Applicable
Part 411, Subport C	Runoff from material storage piles at cement manufacturing facilities	Ē	2/20/1974	
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)	С	4/8/1974	
Part 423	Coal pile runoff at steam electric generating facilities	0	11/19/1982 10/8/1974 ¹	
Part 429, Subpart I	Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	A	1/26/1981	
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	
Part 443, Subpart A	Runoff from asphalt emulsion facilities	D	7/28/1975	■
Part 445, Subparts A & B	Runoff from hazardous waste and non-hazardous waste landfills	K, L	2/2/2000	
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	

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 Limit Sets.

	e stormwater outfalls	For each outfall, provide the following	receiving water information:	f
must be ide 3-digit ID (e provide the	entified by a unique e.g., 001, 002). Also e latitude and n degrees decimal for	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:
Ouffall ID	002 (Sector AA, Subsector AA1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:
Latitude	35.875797	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
Longitude	-106.327580		00010 Temperature, water deg. centigrade	N/A
Outfall ID	005 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:
Latitude	35.873919		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.320746	•	00010 Temperature, water deg. centigrade	N/A

Outfall ID	006 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:
Latitude	35.874011		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.319858		00010 Temperature, water deg. centigrade	N/A
If <mark>substanti</mark>	ally identical to other o	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,	TMDL Name and ID: N/A
Latitude	35.874843		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.319412	ą.	00010 Temperature, water deg. centigrade	N/A
lf substantic	ally identical to other o	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,	TMDL Name and ID: N/A
Latitude	35.874014		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.319203		00010 Temperature, water deg. centigrade	N/A
lf <mark>substantic</mark>	ı <mark>lly identical</mark> to other o	utfall, list identical outfall ID: 009		
Ouffall ID	008 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.874617		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.318925		00010 Temperature, water deg. centigrade	N/A
		1		

	*	W/		
Outfall ID	010 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:
Latitude	35.875402		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.320301		00010 Temperature, water deg. centigrade	N/A
If <mark>substanti</mark>	<mark>ally identical</mark> to other o	utfall, 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,	TMDL Name and ID: N/A
Latitude	35.875532		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.320884		00010 Temperature, water deg. centigrade	N/A
If substantic	ally identical to other o	utfall, 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,	TMDL Name and ID: N/A
Latitude	35.875563		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.320744		00010 Temperature, water deg. centigrade	N/A
lf <mark>substantia</mark>	<mark>illy identical t</mark> o other o	u <mark>tfall,</mark> list identical outfall ID: 012		
Ouffall ID	017 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.872599	33.)	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.317066		00010 Temperature, water deg. centigrade	N/A
if substantia	lly identical to other ou	ıtfall, list identical outfali ID:		l;

Outfall ID	013 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.870797		dissolved [as Cu]; 71900 Mercury, total [as Hg];	Pollutant(s) for which there is a TMDL:
Longitude	-106.317867		39516 Polychlorinated biphenyls [PCBs]	N/A
lf <mark>substanti</mark>	ally identical to other o	u <mark>tfall,</mark> list identical outfall ID: <u>017</u>		
Outfall ID	014 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.870890		dissolved [as Cu]; 71900 Mercury, total [as Hg];	Pollutant(s) for which there is a TMDL:
Longitude	-106.317393	ē.	39516 Polychlorinated biphenyls [PCBs]	N/A
If <mark>substantic</mark>	<mark>ılly identical</mark> to other ou	u <mark>tfall,</mark> list identical outfall ID: 017	· · · · · · · · · · · · · · · · · · ·	•
Outfall ID	015 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID:
Latitude	35.871389		dissolved [as Cu]; 71900 Mercury, total [as Hg];	Pollutant(s) for which there is a TMDL:
Longitude	-106.316397		39516 Polychlorinated biphenyls [PCBs]	N/A
If <mark>substantia</mark>	<mark>lly identical</mark> to other ou	otfall, 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,	TMDL Name and ID: N/A
Latitude	35.872447	/	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.316721	-	00010 Temperature, water deg. centigrade	N/A
If <mark>substantia</mark>	<mark>lly identical</mark> to other ou	<mark>tfall,</mark> list identical outfall ID: <u>017</u>		

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,	TMDL Name and ID:
Latitude	35.872682	-	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.318467		00010 Temperature, water deg. centigrade	N/A
If substantio	ally identical to other o	utfall, 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,	TMDL Name and ID: N/A
Latitude	35.872240	,	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.316340		00010 Temperature, water deg. centigrade	N/A
If substantio	ılly identical to other ou	utfall, list îdentical outfall ID:	• •	
Ouffall ID	022 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.872661		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.313691		00010 Temperature, water deg. centigrade	N/A
lf substantia	lly identical to other ou	rtall, 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,	TMDL Name and ID: N/A
Latitude	35.872514	•,	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.313562		00010 Temperature, water deg. centigrade	N/A
if <mark>substantia</mark>	lly identical to other ou	t <mark>fall,</mark> list identical outfall ID: 022		
				

Ouffall ID	023 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.873193		dissolved [as Cu], 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.313116		00010 Temperature, water deg. centigrade	N/A
If <mark>substanti</mark>	ally identical to other o	outfall, list identical outfall ID: 022	<u>.</u>	
Outfall ID	024 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.873046		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.315069		00010 Temperature, water deg. centigrade	N/A
If <mark>substantic</mark>	ally identical to other o	utfall, 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,	TMDL Name and ID: N/A
Latitude	35.872928		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.315400		00010 Temperature, water deg. centigrade	N/A
If <mark>substantio</mark>	<mark>illy identical</mark> to other o	utfall, 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,	TMDL Name and ID: N/A
Latitude	35.872114) /-	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.313105		00010 Temperature, water deg. centigrade	N/A
If substantia	lly identical to other o	utfall, list identical outfall ID:		

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

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

Outfall ID	035 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:	
Latitude	35.870474		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
Longitude	-106.305432		00010 Temperature, water deg. centigrade	N/A	
lf <mark>substanti</mark>	<mark>ally identical</mark> to other o	utfall, 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,	TMDL Name and ID: N/A	
Latitude	35.867825		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
Longitude	-106.293388		00010 Temperature, water deg. centigrade	N/A	
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,	TMDL Name and ID: N/A	
Latitude	35.867859		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
Longitude	-106.292992		00010 Temperature, water deg. centigrade	N/A	
lf <mark>substantic</mark>	<mark>ally identical</mark> to other o	utfall, list identical outfall ID: 036		-	
Ouffall ID	039 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A	
Latitude	35.867826		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
			00010 Temperature,	N/A	
Longitude	-106.291726		water deg. centigrade	14/7 (

Outfall ID	038 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:
Latitude	35.867855		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.292211		00010 Temperature, water deg. centigrade	N/A
If <mark>substantic</mark>	ally Identical to other o	utfall, 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,	TMDL Name and ID: N/A
Latitude	35.867839		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.291955		00010 Temperature, water deg. centigrade	N/A
lf <mark>substantic</mark>	<mark>ılly identical</mark> to other o	u <mark>tfall,</mark> list identical outfall ID: <u>039</u>	de la companya de la	
Outfall ID	042 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:
Latitude	35.867047		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.289163		00010 Temperature, water deg. centigrade	N/A
If substantia	ılly identical to other o	utfall, list identical outfall ID:		
Outfall ID	041 (Sector P, Subsector P1)	Mortandad Canyon (within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.866377		dissolved [as Cu]; 71900 Mercury, total [as Hg]; 39516 Polychlorinated	Pollutant(s) for which there is a TMDL:
Longitude	-106.291397		N/A	
If <mark>substantia</mark>	<mark>lly identical</mark> to other ou	utfall, list identical outfall ID: 042		

Outfall ID	043 (Sector P, Subsector P1)	Mortandad Canyon (within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.866084	2.	dissolved [as Cu]; 71900 Mercury, total [as Hg];	Pollutant(s) for which there is a TMDL:
Longitude	-106.290165		39516 Polychlorinated biphenyls [PCBs]	N/A
If substantic	ally identical to other o	utfall, 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,	TMDL Name and ID: N/A
Latitude	35.875034		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.327328		00010 Temperature, water deg. centigrade	N/A
If substantic	ılly identical to other o	utfall, list identical outfall ID:		
Ouffall ID	073 (Sector A, Subsector A4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.874819	331)	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.324283		00010 Temperature, water deg. centigrade	N/A
If <mark>substantio</mark>	<mark>illy identical</mark> to other ou	utfall, list identical outfall ID: 074		
Ouffall ID	075 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.871154	/	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.312940		00010 Temperature, water deg. centigrade	N/A
if substantia	lly identical to other ou	otfall, list identical outfall ID:		

4. Provide the following Information about your outfall latitude longitude:
Latitude/Longitude Data Source:
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 Muncipal 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 INO
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*? TYES TO 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: Hollly L L Wheleller Hollly
Professional Title: Environmentall 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	
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 an other measures taken to comply with the requirements in Part 2,2 Water Quality-Based Effluent Limitations (see Part 5.2.4):	У
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 affects on listed species and critical habitat.	S
have no likely adverse affects 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):	s
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have no likely adverse affects 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: 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 measurable were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects on listed species and critical habitat. Date your Criterion C Eligibility Form was sent to EPA:	
have no likely adverse affects 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. 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: Isubmitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measurable that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects 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 affects on listed species and critical habitat: Isubmitted 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	
have no likely adverse affects 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: 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 measure that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects 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 affects 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 affects on listed species and critical habitat.	
have no likely adverse affects 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. 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: Isubmitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measurable that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects 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 affects on listed species and critical habitat: Isubmitted 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	

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H. Historic Preservation										
1. If your facility is not located on Indian country lands, is your facility located on a properly of religious or cultural significance to an Indian tribe? I 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)?										
	в 🗆 С	D								
I. Certification In	formation	o ki saki kacamatan San								
to assure that qu system, or those	alified personne persons directly i	I this document and all attachments were prepared I properly gathered and evaluated the information suresponsible for gathering the information, the information are significant penalties for submitting false information.	ubmitted, Based on m tion submitted is, to th	ry inquiry of the person or persons who manage the ne best of my knowledge and belief, true, accurate,						
First Name, Midd	le Initial, Last Nai	me: Michaell W	Hazen							
Title:	Associ	alte Laboratory Dir	e c t o r							
Signature:	Africa	affe		Date: 10/01/2018						
E-mail:	m h a z e r	n@ [an [.gov]								

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

EPC-DO: 18-358

					Proposed		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		Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code		Symbol	Quality Value	Limit Type	Units	Freq. of	Smpl.	Monitoring Period	Monitoring Period End	DMR Due
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	_	_			Date	Date
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/201
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/201
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	
rBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	Anna Anna Anna Anna Anna Anna Anna Anna
rBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		/Jaximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/201
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		//aximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/201
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		//aximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/201
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=			ug/L	1/60	Gr	6/1/2019	7/31/2019	
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		/laximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/201
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total			Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		1aximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/201
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		1aximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/201
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		1aximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/202
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating		Nitrite Plus Nitrate Total	<=		1aximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating			<=		laximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	002	AA	AA1	002-IW	IW - Impaired Water		Zinc, dissolved [as Zn]	<=		laximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	002	AA	AA1	002-IW	IW - Impaired Water		Aluminum, total recoverable [as Al]	<=	1010 M	laximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	002	AA	AA1	002-IW	IW - Impaired Water		Copper, dissolved [as Cu]	<=	7 M	laximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	002	AA	AA1		IW - Impaired Water		Polychlorinated biphenyls [PCBs]	<=	0.2 M	laximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
in the contract of the contrac	1,445				002.11	inputed vater	00010 1 0	Temperature, water deg. centigrade	<=	24 M	aximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities									1/2/2013	11/30/2013	1/31/2020
BD	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities O1 - Steam Electric Generating Facilities		Iron, total [as Fe]	<=	1000 M	aximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/21/201
BD	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Floatric Generating Facilities		Iron, total [as Fe]	<=	1000 M		ug/L	1/60	Gr	6/1/2019	7/31/2019	7/31/2019
BD	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities		Iron, total [as Fe]	<=	1000 M		ug/L	1/60	Gr	8/1/2019		9/30/2019
BD	Los Alamos National Laboratory	005	0	01		O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=	1000 M		ug/L	1/60	Gr	10/1/2019		11/30/2019
BD	Los Alamos National Laboratory	005	0			W - Impaired Water	0110410	Aluminum, total recoverable [as Al]	<=	1010 Ma		ug/L	1/YR	Gr		11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	005	0	01		W - Impaired Water		Copper, dissolved [as Cu]	<=		aximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
BD		005		01		W - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		aximum	ug/L	1/YR		4/1/2019	11/30/2019	1/31/2020
טפ	Los Alamos National Laboratory	005	0	01	005-IW	W - Impaired Water		Temperature, water deg. centigrade	<=			-		Gr	4/1/2019	11/30/2019	1/31/2020
D.D.	I Al-	200								27 1016	aximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	009	0	01	009-01	O1 - Steam Electric Generating Facilities	01045 1 0	lron, total [as Fe]	<=	1000 Ma	avina una	- /1	1/50				
BD	Los Alamos National Laboratory	009	0	01		O1 - Steam Electric Generating Facilities		ron, total [as Fe]	<=	1000 Ma		ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
BD	Los Alamos National Laboratory	009	0	01		01 - Steam Electric Generating Facilities		ron, total [as Fe]	<=	1000 Ma		ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	009	0	01		01 - Steam Electric Generating Facilities		ron, total [as Fe]	<=	1000 Ma		ug/L	1/60	Gr	8/1/2019		11/30/2019
BD	Los Alamos National Laboratory	009	0	01	009-IW	W - Impaired Water		Aluminum, total recoverable [as Al]	<= \-			ug/L	1/60	Gr		11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	009	0	01		W - Impaired Water	01040 1 0	Copper, dissolved [as Cu]		1010 Ma		ug/L	1/YR	Gr		11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	009	0	01	009-IW I	W - Impaired Water		Polychlorinated biphenyls [PCBs]	<=			ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	009	0	01		W - Impaired Water		emperature, water deg. centigrade	<=	0.2 Ma		ug/L	1/YR	Gr		11/30/2019	1/31/2020
								congenatore, water deg. centigrade	<=	24 Ma	ximum	deg C	1/YR	Gr	4/1/2019	PSPANORAL COLUMN	1/31/2020
	Los Alamos National Laboratory	012	0	01	012-01	01 - Steam Electric Generating Facilities	01045 1 0	ron, total [as Fe]		2 4 4 4 4							
BD	Los Alamos National Laboratory	012	0	01		21 - Steam Electric Generating Facilities		ron, total [as Fe]	<=	1000 Ma		ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
3D	Los Alamos National Laboratory	012	0	01		1 - Steam Electric Generating Facilities			<=	1000 Ma:		ug/L	1/60	Gr	6/1/2019		9/30/2019
3D	Los Alamos National Laboratory	012	0	01		1 - Steam Electric Generating Facilities		ron, total [as Fe]	<=	1000 Ma:		ug/L	1/60	Gr	8/1/2019		11/30/2019
3D	Los Alamos National Laboratory	012	0	01		N - Impaired Water		ron, total [as Fe]	<=	1000 Max	ximum	ug/L	1/60				1/31/2020
3D	Los Alamos National Laboratory	012	0	01		N - Impaired Water		luminum, total recoverable [as Al]	<=	1010 Max		ug/L	1/YR	Gr			1/31/2020
3D	Los Alamos National Laboratory	012	0	01		W - Impaired Water		opper, dissolved [as Cu]	<=		ximum		1/YR	Gr			1/31/2020
	Los Alamos National Laboratory	012	0	01		V - Impaired Water		olychlorinated biphenyls [PCBs]	<=	0.2 Max			1/YR	Gr			1/31/2020
					012 100	· unpaned water	00010 1 0 To	emperature, water deg. centigrade	<=	24 Max			1/YR	Gr			1/31/2020
3D	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11 1	1. Enhanced Motel Brade							A7#12 RW		., 2,2013	11/30/2015	1/31/2020
	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11 1	1- Fabricated Metal Products, except Coating		luminum, total recoverable [as Al]	<=	1010 Max	kimum	ug/L	1/60	Gr	4/1/2019	5/21/2010	7/24/2046
	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11 1	1- Fabricated Metal Products, except Coating		opper, dissolved [as Cu]	<=				1/60	Gr			7/31/2019
	Los Alamos National Laboratory	017			017-11 1	1- Fabricated Metal Products, except Coating		on, total [as Fe]	<=	1000 Max			1/60	Gr			7/31/2019
	Los Alamos National Laboratory	017	AA, F	AA1, F4		1- Fabricated Metal Products, except Coating		itrite Plus Nitrate Total	<=	0.68 Max			1/60	Gr			7/31/2019
,,,	ros ciamos ivarional raporatory	OT/	AA, F	AA1, F4	017-11 1	1- Fabricated Metal Products, except Coating	01090 1 0 Zi	nc, dissolved [as Zn]		····un	rimum (5/-	1/00	GI I	4/1/2019	5/31/2019	7/31/2019

								ELG, Modifie	d Benchma	rk, and Imp	aired Waters Lim	its per N	/ISGP Sect	ion 9.6.2	and		
					Proposed			the NM Water	Quality Star	dards (20.6	6.4.900 NMAC [N	ew Mexi	ico Admin	istrative (Code])		
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge #	Direbene Desertation	Paramete	r		Quality			Freq. o	f Smpl.	Monitoring Period	Monitoring Period End	DMR Due
	· · · · · · · · · · · · · · · · · · ·	+			<u> </u>	Discharge Description	Code	Parameter Name	Symbol	Value	Limit Type	Units	Analysi	Type	Start Date	Date	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		
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]	<=		Maximum	ug/L	1/60	Gr		7/31/2019	9/30/201
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60		6/1/2019	7/31/2019	1.00
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum			Gr	6/1/2019	7/31/2019	Co. #. C. A. C. A. B. C. C. A. C. C.
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/201
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/201
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/201
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/201
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=			mg/L	1/60	Gr	8/1/2019	9/30/2019	
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	0110410	Aluminum, total recoverable [as Al]			Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/201
BD .	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/202
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/202
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	51450 1 0		<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/202
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01090 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW - Impaired Water		Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW - Impaired Water		Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4		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
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4		IW - Impaired Water	3951610	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	200 1 110 110 110 110 110 110 110 110 11	01/	7,7,7,1	ALCO TO	017-100	TWO - 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
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Martal Barrier										,,	1/31/1020
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating		Aluminum, total recoverable [as Al]	<=	1010 N	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
BD	Los Alamos National Laboratory	020	AA, F		020-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
-				AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	Gr	4/1/2019		7/31/2019
BD	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]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	5/31/2019	7/31/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/60	Gr		7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	_	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum			Gr	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	0109010	Zinc, dissolved [as Zn]	<=		//aximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating		Aluminum, total recoverable [as Al]	<=		//aximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating		Copper, dissolved [as Cu]	<=			ug/L	1/60	Gr	8/1/2019		11/30/2019
	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	1- Fabricated Metal Products, except Coating		Iron, total [as Fe]			/laximum	ug/L	1/60	Gr	8/1/2019		11/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating		Nitrite Plus Nitrate Total	<=		/laximum	ug/L	1/60	Gr	8/1/2019		11/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11 1	1- Fabricated Metal Products, except Coating		Zinc, dissolved [as Zn]	<=		laximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11 1	1- Fabricated Metal Products, except Coating		Aluminum, total recoverable [as Al]	<=		1aximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11 1	1- Fabricated Metal Products, except Coating			<=		1aximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11 1	1- Fabricated Metal Products, except Coating		Copper, dissolved [as Cu]	<=		1aximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		1- Fabricated Metal Products, except Coating		Iron, total [as Fe]	<=		1aximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	020	AA, F	AA1, F4		1- Fabricated Metal Products, except Coating		Nitrite Plus Nitrate Total	<=		laximum	mg/L	1/60	Gr			1/31/2020
	Los Alamos National Laboratory	020		AA1, F4		W - Impaired Water		Zinc, dissolved [as Zn]	<=		laximum	ug/L	1/60				1/31/2020
	Los Alamos National Laboratory	020		AA1, F4		W - Impaired Water	SERVICE CONTRACTOR	Aluminum, total recoverable [as Al]	<=		laximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
	Los Alamos National Laboratory	020	AA, F	AA1, F4		W - Impaired Water W - Impaired Water		Copper, dissolved [as Cu]	<=	7 M	laximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
	Los Alamos National Laboratory	020		AA1, F4				Polychlorinated biphenyls [PCBs]	<=	0.2 M	laximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
-	203 Alamos National Cabolatory	020	лл, г	7A1, F4	UZU-1VV	N - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24 M	laximum	deg C	1/YR	Gr		11/30/2019	1/31/2020
3D	Los Alamos National Laboratory	022	Р	D1	022 114	AT 1 COMPONED VALUE								-	., ., ., .	11/30/2013	1/31/2020
			P	P1		N - Impaired Water		Aluminum, total recoverable [as Al]	<=	1010 M	aximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/21/2020
	Los Alamos National Laboratory	022	P P	P1		N - Impaired Water		Copper, dissolved [as Cu]	<=			ug/L	1/YR	Gr			1/31/2020
	Los Alamos National Laboratory	022	۲	P1		N - Impaired Water	39516 1 0 F	Polychlorinated biphenyls [PCBs]	<=			ug/L	1/YR	Gr	10/10/10/10	CONTRACTOR CONTRACTOR CONTRACTOR	1/31/2020
BD	Los Alamos National Laboratory	022	Р	P1	022-IW IV	V - Impaired Water		emperature, water deg. centigrade	<=				1/YR				1/31/2020
	Marco Star Marco School Control Contro							- 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2.4 101	e-minarii	ucg C	T/1K	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	026	Р	P1		V - Impaired Water	0110410 A	lluminum, total recoverable [as Al]	<=	1010 Ma	avimum	ua/i	1//0		A /a /pp: -	4 4 10 0 10 -	4 6-1
3D	Los Alamos National Laboratory	026	Р	P1	026-IW IV	V - Impaired Water		opper, dissolved [as Cu]					1/YR		4/1/2019	11/30/2019	1/31/2020
_	Los Alamos National Laboratory	026	P	P1	026-IW IV	V - Impaired Water	0104010	opper, dissolved las cui	<=	7114	aximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020

					Proposed			ELG, Modifie the NM Water	d Benchma Quality Star	rk, and Imp idards (20.	paired Waters Lin 6.4.900 NMAC [N	nits per N lew Mexi	ASGP Sect	on 9.6.2	and Code])		
Permit ID	Facility			Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code		Symbol	Quality Value	Limit Type	Units	Freq. o	f Smpl.		Monitoring Period End Date	DMR Due
TBD	Los Alamos National Laboratory	026	Р	P1	026-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C		Gr	4/1/2019		Date
TOD	Lac Alamas National Laboratory	020	N	NO	020 1111							- BUB C	1 4/11	- 01	4/1/2019	11/30/2019	1/31/202
TBD TBD	Los Alamos National Laboratory Los Alamos National Laboratory	029	N	N2 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	1/31/202
TBD	Los Alamos National Laboratory	029	N	N2 N2	029-IW 029-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	
TBD	Los Alamos National Laboratory	029	N	N2 N2		IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
100	Los Alamos National Laboratory	023	<u> </u>	INZ	029-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=		Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
TBD	Los Alamos National Laboratory	031	Р	P1	031-IW	IW - Impaired Water									4,400	11/30/2013	1/31/202
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	1/31/202
TBD	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
_	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	1/31/202
100	2007 Harries National Eagoratory	051			031-100	inpaired water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	
TBD	Los Alamos National Laboratory	032	Р	P1	032-IW	IW - Impaired Water	*****									, ,	-,52,202
	Los Alamos National Laboratory	032	P	P1		IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
TBD	Los Alamos National Laboratory	032	P	P1	A 50 COLUMN TO THE REAL PROPERTY AND THE REA	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	032	P	P1		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
Names					052 110	TVV - Impanca vvater	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	Р	P1	036-IW	IW - Impaired Water	0110110										
	Los Alamos National Laboratory	036	Р	P1		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
1000	Los Alamos National Laboratory	036	Р	P1		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
	Los Alamos National Laboratory	036	Р	P1		IW - Impaired Water		Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
					030 111	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	Р	P1	039-IW	IW - Impaired Water	044044	2									-, -, -, -, -, -, -, -, -, -, -, -, -, -
TBD	Los Alamos National Laboratory	039	P	P1		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
	Los Alamos National Laboratory	039	P	P1		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
	Los Alamos National Laboratory	039	Р	P1		IW - Impaired Water		Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
DOWNERS .					033 111		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	Р	P1	042-IW	IW - Impaired Water	0110110										
	Los Alamos National Laboratory	042	Р	P1		W - Impaired Water		Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	042	Р	P1		W - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	042	Р	P1		W - Impaired Water		Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
						mpaned Witte	00010 1 0	Temperature, water deg. centigrade	<=	24 [Maximum	deg C	1/YR	Gr		11/30/2019	1/31/2020
						O1 - Asphalt Paving and Roofing Materials and											
ГBD	Los Alamos National Laboratory	043	D	D1	043-D1	ubricant Manufacturing	00530 1 0	Collide total surround of									
						01 - Asphalt Paving and Roofing Materials and	0033010	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
гво	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	00520 1 0	Solids, total suspended									
						01 - Asphalt Paving and Roofing Materials and	0033010	Solids, total suspended	<=	100 N	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
rBD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	00530 1 0	Solids, total suspended									
						01 - Asphalt Paving and Roofing Materials and	0033010	solius, total suspended	<=	100 N	/laximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
TBD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	00530 1 0	Solids, total suspended									
						D - Asphalt Paving and Roofing Materials and	0033010	solius, total suspended	<=	100 N	/laximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	0055610	Oil & Grease									
						D - Asphalt Paving and Roofing Materials and	0033010	oli & drease	<=	10 3	0-Day Average	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	0055610	Oil & Grease									
						D - Asphalt Paving and Roofing Materials and	0033010	on & Grease	<=	15 D	aily Maximum	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	043	D	D1	043-1D L	ubricant Manufacturing	0040010	он									
						D - Asphalt Paving and Roofing Materials and	0040010	<i>a</i> 1	>=	6 N	finimum	SU	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	0040010	ьн									
						D - Asphalt Paving and Roofing Materials and	00.00010	//I	<=	9 N	laximum	SU	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	0053010 5	olids, total suspended									
						D - Asphalt Paving and Roofing Materials and	0000010	sonus, total suspended	<=	15 30	D-Day Average	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	00530 1 0	olids, total suspended	. 1								
BD	Los Alamos National Laboratory	043	D	D1		V - Impaired Water		djusted Gross Alpha	<=		aily Maximum	mg/L	1/YR	Gr			1/31/2020
							1	ajastea Gross Aiplia	<=	15 M	laximum	pCi/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020

					Proposed			ELG, Modifie the NM Water	ed Benchma Quality Star	rk, and Imp Idards (20.	paired Waters Lim 6.4.900 NMAC [No	its per M ew Mexic	SGP Section	n 9.6.2	and Codel)		
Permit ID	Facility	Permitted Feature	Sector(s)	s) Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code		Symbol	Quality Value	Limit Type	Units	Freq. of	Smpl.		Monitoring Period End Date	DMR Due
TBD	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	11	Maximum		<u> </u>				Date
TBD	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L ug/L	1/YR 1/YR	Gr	4/1/2019	11/30/2019	1/31/202
TBD	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	71900 1 0	Mercury, total [as Hg]	<=		Maximum	ug/L	1/YR	Gr Gr	4/1/2019 4/1/2019	11/30/2019 11/30/2019	
												UB/ C	2/11	- Gi	4/1/2019	11/30/2019	1/31/202
TBD	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	<=	120	Maximum	mg/L	1/60	Gr	4/4/2040	F /04 /004 5	
TBD	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=		Maximum	mg/L	1/60	_	4/1/2019	5/31/2019	
TBD	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	<=		Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	
TBD	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	\ <=		Maximum		1/60	Gr	6/1/2019	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]	\ \{=		Maximum	mg/L		Gr	6/1/2019	7/31/2019	
TBD	Los Alamos National Laboratory	074	Α	A4		A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=		Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	
TBD	Los Alamos National Laboratory	074	Α	A4		A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	=		Maximum	mg/L	1/60 1/60	Gr	8/1/2019	9/30/2019	11/30/201
TBD	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=	137771-00	Maximum	mg/L		Gr	10/1/2019	11/30/2019	1/31/2020
TBD:	Los Alamos National Laboratory	074	Α	A4	074-IW	IW - Impaired Water		Aluminum, total recoverable [as Al]	<=		Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	074	Α	A4	074-IW	IW - Impaired Water	01040 1 0	Copper, dissolved (as Cul	<=		Maximum	ug/L	1/YR 1/YR	Gr	4/1/2019	11/30/2019	
ГBD	Los Alamos National Laboratory	074	Α	A4	074-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
ГBD	Los Alamos National Laboratory	074	Α	A4	074-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=		Maximum	ug/L deg C	1/YR	Gr Gr	4/1/2019	11/30/2019	1/31/2020
	9										THE STATE OF THE S	uege	1/ I.K	GI	4/1/2019	11/30/2019	1/31/2020
rBD	Los Alamos National Laboratory	075	Р	P1	075-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	C.	4/1/2010	44 /20 /2040	
rBD	Los Alamos National Laboratory	075	Р	P1	075-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	075	Р	P1		IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	\ <=		Maximum		1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	075	Р	P1	075-IW	IW - Impaired Water		Temperature, water deg. centigrade	<=		Maximum	ug/L deg C	1/YR 1/YR	Gr Gr	4/1/2019 4/1/2019	11/30/2019	1/31/2020

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

EPC-DO: 18-358

Date:	OCT 0 1 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

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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-Props

Field Supervisor

cc:

Teralene Foxx, Project Manager, Ecology Group, Los Alamos National Laboratory, P.O. Box 1663, Mail Stop M887, Los Alamos, New Mexico 87545 Elizabeth Withers, U.S. Department of Energy, Los Alamos Area Office, 35th Street, Los Alamos, New Mexico

Field Supervisor, Ecological Services, U.S. Fish and Wildlife Service, Phoenix, Arizona



United States Department of the Interior

FISH AND WILDLIFE SERVICE

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

December 9, 2013

Cons. #02ENNM00-2014-I-0014

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

Dear Mr. Beausoleil:

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

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

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

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

Fuels Management Practices to Reduce Wildfire Risk

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

Utility Corridors

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

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

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

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

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

Sincerely,

Wally Murphy

Field Supervisor

cc:

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



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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

August 6, 2015

Cons. # 02ENNM00-2015-I-0538

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

Dear Ms. Lebak:

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

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

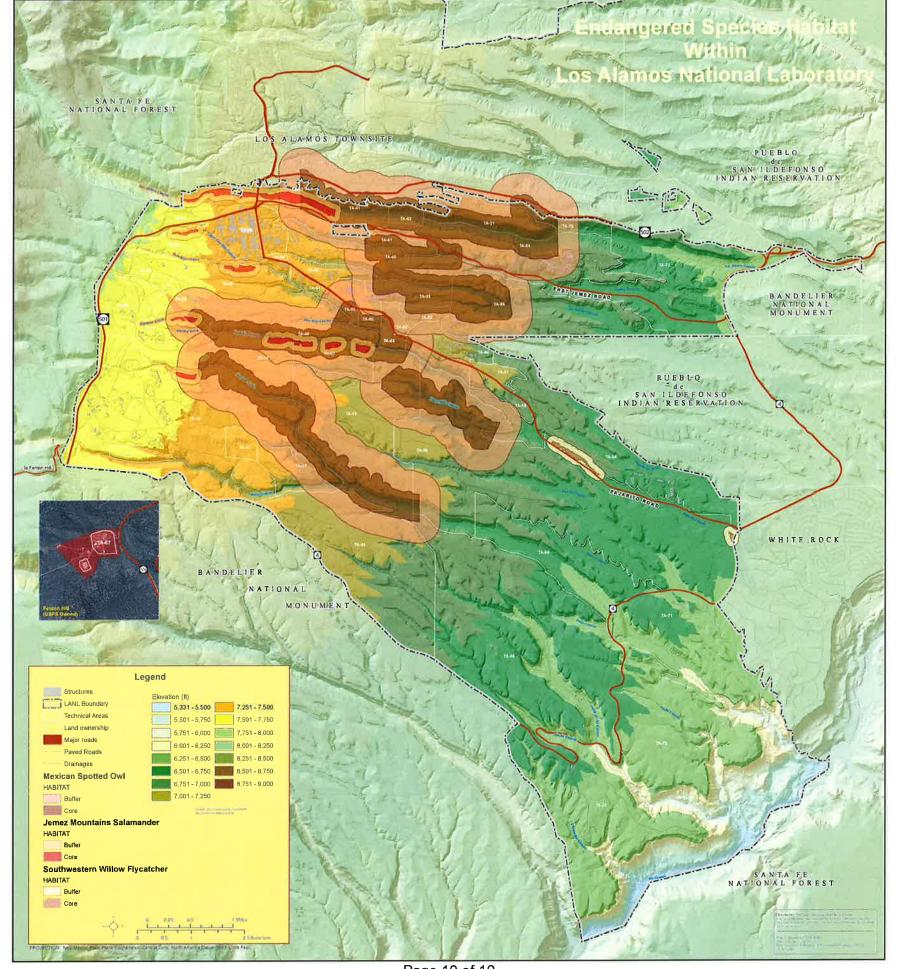
Thank you for your concern for endangered species and New Mexico's wildlife habitats. If you have any questions, please contact Eric Hein of my staff at the letterhead address or at (505) 761-4735.

Sincerely,

for Wally Murphy Field Supervisor

cc:

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





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



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

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.

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 1 1 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

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, (E-File)

Helen Nguyen, EPA Region 6, nguyen.helen@epa.gov, (E-File)

Sarah Holcomb, NMED/SWQB, sarah.holcomb@state.nm.us, (E-File)

Karen E. Armijo, NA-LA, karen.armijo@nnsa.doe.gov, (E-File)

Michael W. Hazen, ALDESHQSS, mhazen@lanl.gov, (E-File)

William R. Mairson, ALDESHQSS, wrmairson@lanl.gov, (E-File)

Timothy A. Dolan, GC-ESH, tdolan@lanl.gov, (E-File)

Taunia S. Van Valkenburg, EPC-CP, tauniav@lanl.gov, (E-File)

Terrill. W. Lemke, EPC-CP, tlemke@lanl.gov, (E-File)

Holly L. Wheeler, EPC-CP, hbenson@lanl.gov, (E-File)

Leslie J. Dale, EPC-CP, leslie@lanl.gov, (E-File)

adesh-records@lanl.gov, (E-File)

lasomailbox@nnsa.doe.gov, (E-file)

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 1 1 2019	
Date		

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

FY

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

EPC-DO: 19-191
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>

Cc: Dale, Leslie J < leslie@lanl.gov>; Dolan, Timothy Aloysius < 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.

- 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

From:

Emily Hack (Avanti) (EPA NeT Support)

Cc: Subject: Jahan Nasim; Wheeler, Holly Lynn; Dale, Leslie J; Hazen, Michael W 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

Fire Lightline And Local Countries States and

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)

Day 25, 13012 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

Attachment 2

EPA Region 6 Concurrence Regarding Temperature as a Non-Pollutant

EPC-DO: 19-191

LA-UR-19-25199

Date:	JUN 1 1 2019	

Dale, Leslie J

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 1 1 2019	

NPDES FORM 3510-6



United States Environmental Protection Agency Washington, DC 20460

NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT

Form Approved, OMB No. 2040-0004

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 eliaible for permit coverage. Refer to the instructions at the end of this form to complete your NOI.

never eligible for permit coverage. Reter to the instructions of 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 approve	ıl:		
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.	;d		
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: 09/26/4018 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, y must file this form electronically using the NPDES eReporting Tool (NeT) at http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-forEPAs-MultiSector-General-Permit.cfm 	ou =		
B. Permit Information NPDES ID (EPA Use Only): NMR 0 5 0 0 1 3	3		
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?			
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 WG\$ 84
4, Is your facility located on Indian Country lands?
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?
☐ Corporation ☐ State Government ☐ Tribal Government ☐ School District
District Mixed Ownership (e.g., Municipal or Water Public/Private)
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: F Subsector: F Subsector: Subsector: Subsector: Subsector:
Sector: Subsector: Sub
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?
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

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	
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)	С	4/8/1974	п
Part 423	Coal pile runoff at steam electric generating facilities	0	11/19/1982 10/8/1974 ¹	0
Part 429, Subpart I	Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	A	1/26/1981	
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	
Part 443, Subpart A	Runoff from asphalt emulsion facilities	D	7/28/1975	
Part 445, Subparts A & B	Runoff from hazardous waste and non-hazardous waste landfills	K, L	2/2/2000	
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	

'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)

	e stormwater outfalls	For each outfall, provide the following	receiving water information:	
must be ide 3-digit ID (e provide the	acility. Each outfall entified by a unique e.g., 001, 002). Also latitude and a degrees decimal for ill.	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:
Ouffall ID	002 (Sector AA, Subsector AA1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)		TMDL Name and ID:
Latitude		Remove monitored outfall 002 from permit coverage and NetDMR. Outfall was		Pollutant(s) for which there is a TMDL:
Longitude		eliminated effective May 1, 2019.		N/A
Outfall ID	005 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				N/A
If substantia	ally identical to other o	I utfall, list identical outfall ID:		L

Outfall ID	006 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				IVA
If <mark>substantic</mark>	ally identical to other o	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.	TMDL Name and ID: N/A
Latitude		-	centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If substantic	ally identical to other o	utfall, list identical outfall ID:		
Outfall ID	007 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude		,	centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
lf <mark>substanti</mark> a	ı <mark>lly identical</mark> to other o	utfall, list identical outfall ID: 009		
Ouffall ID	008 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				

Outfall ID	010 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				IN/A
If <mark>substanti</mark>	ally identical to other o	utfall, 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.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If substantic	ally identical to other o	utfall, list identical outfall ID:		
Outfall ID	011 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
	•		4	
If <mark>substantic</mark>	ılly identical to other o	<mark>utfall,</mark> list identical outfall ID: <u>012</u>		
lf <mark>substantic</mark> Outfall ID	017 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall		TMDL Name and ID:
	017 (Sectors AA, F	Sandia Canyon (Sigma		

Outfall ID	013 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	TMDL Name and ID:
Latitude		Remove SIO 013 from permit	Pollutant(s) for which there is a TMDL:
Longitude		coverage. Site achieved No Exposure Status effective December 18, 2018.	N/A
If <mark>substant</mark>	ally identical to other o	u <mark>tfall,</mark> 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	Pollutant(s) for which there is a TMDL:
Longitude		coverage. Site achieved No Exposure Status effective December 18, 2018.	N/A
lf <mark>substanti</mark>	<mark>ally identical</mark> to other o	u <mark>tfall,</mark> list identical outfall ID: <u>017</u>	
Ouffall ID	015 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	TMDL Name and ID:
Latitude		Damagua CIO 015 firana na mait	Pollutant(s) for which there is a TMDL:
Longitude		Remove SIO 015 from permit coverage. Site achieved No Exposure Status effective December 18, 2018.	N/A
		017	
lf <mark>substanti</mark>	<mark>ally identical</mark> to other ou	u <mark>tfall,</mark> list identical outfall ID: 017	
lf <mark>substanti</mark> Outfall ID	016 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	TMDL Name and ID:
	016 (Sectors AA, F	Sandia Canyon (Sigma Canyon to NPDES outfall	personal and the second second second

Outfall ID	019 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)		TMDL Name and ID:
Latitude		Remove SIO 019 from permit		Pollutant(s) for which there is a TMDL:
Longitude		coverage. Site achieved No Exposure Status effective December 18, 2018.		N/A
If <mark>substantic</mark>	a <mark>lly identical</mark> to other o	utfall, list identical outfall ID: 017		·
Ouffall ID	020 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)		TMDL Name and ID: N/A
Latitude		Remove monitored outfall 020 from permit coverage and		Pollutant(s) for which there is a TMDL:
Longitude		NetDMR. Site achieved no Exposure Status effective December 18, 2018.		IN/A
lf substantic	ally identical to other o	utfall, list identical outfall ID:		•
Outfall ID	022 (Sectors AA, P, Subsectors AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude		,	centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude		Add Sector AA, Subsector AA1 to permit coverage for monitored outfall 022.		N/A
f substantic	ally identical to other or	utfall, list identical outfall ID:	···	
Outfall ID	021 (Sector AA, P, Subsector AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
.atitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
.ongitude		Add Sector AA, Subsector AA1 to permit coverage for SIO 021.		N/A

Outfall ID	023 (Sector AA, P, Subsector AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from	TMDL Name and ID:
Latitude			list of impairments	Pollutant(s) for which there is a TMDL:
Longitude		Add Sector AA, Subsector AA1 to permit coverage for SIO 023.		N/A
lf <mark>substanti</mark> c	ally identical to other o	utfall, list identical outfall ID: 022		
Ouffall ID	024 (Sector AA, P, Subsector AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from	TMDL Name and ID:
Latitude			list of impairments	Pollutant(s) for which there is a TMDL:
Longitude		Add Sector AA, Subsector AA1 to permit coverage for SIO 024.		N/A
lf <mark>substantic</mark>	ı <mark>lly identical</mark> to other o	utfall, 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.	TMDL Name and ID:
Latitude		.,	centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude		Add Sector AA, Subsector AA1 to permit coverage for SIO 025.		N/A
lf <mark>substantic</mark>	<mark>ılly identical</mark> to other ou	utfall, 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.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				

Outfall ID	027 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If <mark>substanti</mark>	ally 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.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
lf <mark>substantic</mark>	ally 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.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				l v/v
If substantic	ally identical to other	outfall, list identical outfall ID:		<u>'</u>
Outfall ID	032 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Latitude				N/A
Latitude Longitude				

Outfall ID	033 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				IN/A
If <mark>substanti</mark>	ally 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.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
ti arribakandia	ally identical to other	outfall, list identical outfall ID: 032		- L
u zopzianii	ally identificat to other	oonan, iisi laciincai oonan ib.		
Outfall ID	035 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall	Remove 00010 Temperature, water deg.	TMDL Name and ID:
	035 (Sector P,	Sandia Canyon (Sigma	The same of the sa	N/A Pollutant(s) for which there is a TMDL:
Outfall ID	035 (Sector P,	Sandia Canyon (Sigma Canyon to NPDES outfall	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which
Outfall ID Latitude Longitude	035 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which there is a TMDL:
Outfall ID Latitude Longitude	035 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001) outfall, list identical outfall ID: 032 Sandia Canyon (Sigma Canyon to NPDES outfall	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which there is a TMDL:
Outfall ID Latitude Longitude	035 (Sector P, Subsector P1) olly identical to other of the control of the contr	Sandia Canyon (Sigma Canyon to NPDES outfall 001) outfall, list identical outfall ID: 032 Sandia Canyon (Sigma	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which there is a TMDL: N/A

Outfall ID	037 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.867859		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]	Pollutant(s) for which there is a TMDL:
Longitude	-106.292992	Change outfall 037 from SIO to Monitored Outfall effective March 26, 2019.	Remove 00010 Temperature, water deg. centrigrade from list of impairments	N/A
If substantio	ally 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.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If substantic	ally identical to other	outfall, list identical outfall ID:		
Outfall ID	038 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)		TMDL Name and ID:
		1		
Latitude		Romana CIO 028 from normit		Pollutant(s) for which there is a TMDL:
Latitude Longitude		Remove SIO 038 from permit coverage. Outfall was eliminated effective April 23, 2019.		
Longitude	<mark>ılly identical t</mark> o other e	coverage. Outfall was eliminated effective April 23,		there is a TMDL:
Longitude	040 (Sector P, Subsector P1)	coverage. Outfall was eliminated effective April 23, 2019.		there is a TMDL:
Longitude If <mark>substanti</mark> d	040 (Sector P,	coverage. Outfall was eliminated effective April 23, 2019. Dutfall, list identical outfall ID: 039 Sandia Canyon (Sigma Canyon to NPDES outfall 001)		there is a TMDL: N/A TMDL Name and ID:
Longitude If <mark>substantic</mark> Outfall ID	040 (Sector P,	coverage. Outfall was eliminated effective April 23, 2019. Duffall, list identical outfall ID: 039 Sandia Canyon (Sigma Canyon to NPDES outfall		there is a TMDL: N/A TMDL Name and ID: N/A Pollutant(s) for which

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 Pollutant(s) for which there is a TMDL:
Longitude				N/A
If substantio	ally identical to other o	outfall, list identical outfall ID:		
Ouffall ID	041, Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If <mark>substantic</mark>	ally identical to other c	pu <mark>tfall,</mark> 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.	TMDL Name and ID:
]	centrigrade from	
Latitude			list of impairments	Pollutant(s) for which there is a TMDL:
Latitude Longitude			list of impairments	
Longitude	ılly identical to other o	putfall, list identical outfall ID:	list of impairments	there is a TMDL:
Longitude	073 (Sector A, Subsector A4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	there is a TMDL:
Longitude If substantic	073 (Sector A,	Sandia Canyon (Sigma Canyon to NPDES outfall	Remove 00010 Temperature,	there is a TMDL: N/A TMDL Name and ID: N/A Pollutant(s) for which there is a TMDL:
Longitude If substantic	073 (Sector A,	Sandia Canyon (Sigma Canyon to NPDES outfall	Remove 00010 Temperature, water deg. centrigrade from	there is a TMDL: N/A TMDL Name and ID: N/A Pollutant(s) for which

Outfall ID Latitude Longitude	075 (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
	ultridentical to other or	utfall, list identical outfall ID:		
ir substantic	illy identical to other of	urraii, list identicai outraii ID:	7	*
Outfall ID	076 (Sector AA, Subsector A1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:
Latitude	35.8758507	Add new monitored outfall 076	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]	Pollutant(s) for which there is a TMDL:
Longitude	-106.327924	to permit coverage and NetDMR. Monitoring began June 1, 2019.		N/A
If substantic	illy identical to other or	utfall, list identical outfall ID:		
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantia	lly identical to other ou	utfall, list identical outfall ID:		
Ouffall 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:
Horizontal Reference Datum: NAD 27 NAD 83 WGS 84
5. Does your facility discharge into a Muncipal 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)?
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*?
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 eligiblility for coverage under this Parl, 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;
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:

В	, 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	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):
	p. 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):
L	E. 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 affects 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 affects on listed species and critical habitat.
	Date your Criterion C Eligibilty Form was sent to EPA:
	Describe any EPA-approved measures you will implement to ensure no likely adverse affects 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 affects on listed species and critical habitat.
5.	Date your Criterion C Eligibility Form was sent to EPA:///
	Service.

H. Historic Pr	reservation				
1. If your fac	cility is not located o	n Indian country lands, is your facil	ity located on a pro	perty of religious or c	cultural significance to an Indian tribe?
☐ YES	□NO		2		
If yes, pr	ovide the name of the	ne Indian tribe associated with the	properly:		
	instructions in Apper s permit (only check		storic properties pre	eservation criterion list	ed in Part 1.1.4.6 are you eligible for coverage
□ A	В С	D			
i. Certification	on Information		na e		
to assure the system, or th	at qualified personne nose persons directly	I properly gathered and evaluate responsible for gathering the infor	d the information su mation, the informa	ubmitted. Based on m tion submitted is, to tl	r supervision in accordance with a system designed ny inquiry of the person or persons who manage the he best of my knowledge and belief, true, accurate, e possibility of fine and imprisonment for knowing
First Name, h	Middle Initial, Last Na	me: Enrique		Torres	
Title:	Divis	ion Leader		ШШШ	
Signature:	20	~2			Date: 06/11/2019
E-mail:	etorr	es@lanl.gov	ШШ		

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 1 1 2019

											paired Waters Lim 6.4.900 NMAC [N						
		Permitted			Consolidated Discharge #		Parameter	the NW Water	Quanty Sta	Quality	0.4.500 NIVIAC [N	EW WEXIC	Freg. of	Smpl.	Monitoring Period Start		DMR Due
Permit ID	Facility	Feature	Sector(s)	Subsector	(Limit Set)	Discharge Description	Code	Parameter Name	Symbol	Value	Limit Type	Units	Analysis		Date	Date	Date
NMR050013 L	os Alamos National Laboratory	002	AA	AA1	002-11	11 - Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	4=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
	os Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	4=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
With the second	os Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	4=		Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
Mary Colors of Esperance Colors	os Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	4=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
Andrews and the second second second	os Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable (as Al)	4=	+	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
	os Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
	os Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013 Lo	os Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved (as Zn)	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
Control of the state of the sta	os Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable (as Al)	4=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013 Lo	os Alamos National Laboratory	002	AA	AA1	002-11	11 Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
	os Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
	os Alamos National Laboratory	002	AA	AA1	002-11	11 Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	4=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
	os Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	4=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
	os Alamos National Laboratory	002	AA	AA1	002-11	11 Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
	os Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 O	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013 Lo	os Alamos National Laboratory	002	AA	AA1	002-11	11-Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved (as Zn)	4=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
PORTO ZIRONO NO ZIRONO PI	os Alamos National Laboratory	002	AA	AA1	002-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable (as Al)	←		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
The second secon	os Alamos National Laboratory	002	AA	AA1	002-IW	IW-Impaired Water	01040 1 0	Copper, dissolved [as Cu]	←		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	os Alamos National Laboratory	002	AA	AA1	002-IW	IW-Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	os Alamos National Laboratory	002	AA	AA1	002-IW	IW Impaired Water	00010-1-0	Temperature, water-deg. centigrade	←		Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
Control of the Contro						The control of Performance in the control of the co						2080			1,1,1000	22,00,202	
NMR050013 Lo	os Alamos National Laboratory	005	0	01	005-01	O1 - 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
	os Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
	os Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
	os Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
	os Alamos National Laboratory	005	0	01	005-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Lc	os Alamos National Laboratory	005	0	01	005-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	os Alamos National Laboratory	005	0	01	005-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Lc	os Alamos National Laboratory	005	θ	01	005 IW	IW-Impaired Water	00010-1-0	Temperature, water deg. centigrade	<=		Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Lc	os Alamos National Laboratory	009	0	01	009-01	O1 - 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
NMR050013 Lc	os Alamos National Laboratory	009	0	01	009-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013 Lc	os Alamos National Laboratory	009	0	01	009-01	O1 - 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
NMR050013 Lc	os Alamos National Laboratory	009	0	01	009-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	10/1/2019		1/31/2020
NMR050013 Lc	os Alamos National Laboratory	009	0	01	009-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Lc	os Alamos National Laboratory	009	0	01	009-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 Lo	os Alamos National Laboratory	009	0	01	009-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 Lc	os Alamos National Laboratory	009	Ð	01	009-IW	IW Impaired Water	00010-1-0	Temperature, water deg. centigrade	4=		Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Lc	os Alamos National Laboratory	012	0	01	012-01	O1 - 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
NMR050013 Lc	os Alamos National Laboratory	012	0	01	012-01	O1 - 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
NMR050013 Lc	os Alamos National Laboratory	012	0	01	012-01	O1 - 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
NMR050013 Lc	os Alamos National Laboratory	012	0	01	012-01	O1 - 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
NMR050013 Lc	os Alamos National Laboratory	012	0	01	012-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 Lc	os Alamos National Laboratory	012	0	01	012-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7 1	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Lc	os Alamos National Laboratory	012	0	01	012-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 Le	os Alamos National Laboratory	012	θ	01	012-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
				j													
NMR050013 Le	os 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	4/1/2019	5/31/2019	7/31/2019
NMR050013 Lc	os Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	←=	4 4	Maximum	ug/L	1/60	Gf	4/1/2019	5/31/2019	7/31/2019
NMR050013 Lo	os Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000 A	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013 Lo	os Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	4=	4 86.0	Maximum	mg/L	1/60	Gr	4 /1/2019	5/31/2019	7/31/2019
NMR050013 Le	os Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	4 66	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013 Le	os Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	4=	1010 A	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013 Lo	os Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11-Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=	7 4	Vaximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019

										rk, and Impaired Waters						
		Permitted			Consolidated Discharge #		Parameter	the NW Water	Quanty Sta	Quality	C [New INIEX	Freq. of	Smpl.	Monitoring Period Start	Monitoring Period End	DMR Due
Permit ID	Facility	Feature	Sector(s)	Subsector	(Limit Set)	Discharge Description	Code	Parameter Name	Symbol	Value Limit Typ	e Units	Analysis	Туре	Date	Date	Date
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01045-1-0	Iron, total (as Fe)	4=	1000 Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	4=	0.68 Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	4=	99 Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	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	8/1/2019	9/30/2019	11/30/2019
NMR050013	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	8/1/2019	9/30/2019	11/30/2019
NMR050013	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	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	51450-1-0	Nitrite Plus Nitrate Total	4=	0.68 Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	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	8/1/2019	9/30/2019	11/30/2019
NMR050013	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]	4=	1010 Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	4=	7 Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	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	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=	0.68 Maximum	mg/L	1/60	Gf C*	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	4=	99 Maximum	ug/L	1/60	Gr Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW Impaired Water IW Impaired Water	01104 1 0 01040 1 0	Aluminum, total recoverable [as Al]	<= <=	1010 Maximum 7 Maximum	ug/L	1/YR 1/YR	Gr	4/1/2019 4/1/2019	11/30/2019 11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW Impaired Water	39516 1 0	Copper, dissolved [as Cu] 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	017	AA, F	AA1, F4		IW Impaired Water	00010 1 0	Temperature, water deg. centigrade	4=	24 Maximum		1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	Impared vater	00010-1-0	Temperature, water deg. centigrade	-	Z4 WidAimium	deg C	27 171	Of .	77172019	11/30/2013	1/31/2020
	I N. C. Haberton	020	AA E	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010 Maximum	ug/L	1/60	Gf	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 - Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	4=	7 Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	4=	1000 Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	4=	0.68 Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	4=	99 Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	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]	4=	1010 Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved (as Cu)	4=	7 Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01045 1 0	Iron, total (as Fe)	4=	1000 Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013 NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	4=	0.68 Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	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
NMR050013	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]	4=	1010 Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	4=	7 Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	4=	1000 Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	51450 1-0	Nitrite Plus Nitrate Total	<=	0.68 Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	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	8/1/2019	9/30/2019	11/30/2019
NMR050013	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]	4=	1010 Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved (as Cu)	4=	7 Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	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	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	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	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	4=	99 Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	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/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	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
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-IW	IW Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	4=	0.2 Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	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
					000 11	14 Februared Motel Dundwister average Continue	0110410	Aluminum total seconds by far All		1010 14	w-ti	1/50	Cr	A/1/2010	E/21/2010	7/21/2010
NMR050013	Company of the compan	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	0110410	Aluminum, total recoverable [as Al]	<=	1010 Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01045 1 0 51450 1 0	Iron, total [as Fe] Nitrite Plus Nitrate Total	<=	1000 Maximum	ug/L	1/60	Gr Gr	4/1/2019 4/1/2019	5/31/2019	7/31/2019 7/31/2019
NMR050013		022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating 11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<= <=	0.68 Maximum 99 Maximum	mg/L ug/L	1/60	Gr	4/1/2019	5/31/2019 5/31/2019	7/31/2019
NMR050013		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	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	010410	Iron, total [as Fe]	<=	1000 Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
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	6/1/2019	7/31/2019	9/30/2019
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	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	0110410	Aluminum, total recoverable [as Al]	<=	1010 Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
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	8/1/2019	9/30/2019	11/30/2019
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		Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	A CONTRACTOR OF THE CONTRACTOR	022	_	AA1	022-11	11- Fabricated Metal Products, except Coating		Zinc, dissolved [as Zn]	<=	99 Maximum	ug/L		Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	022	AA	AAI	022-11	22 Tabilitated inicial Flouders, except coating	02000 20	lamel appointed fas rul		Jo INGAIIIGH	ug/ L	1,00		0/ 1/ 2013	5/30/2013	, 50/ 201:

								\$ 1004,09CH 4/410		2.4.6	aired Waters Lim 6.4.900 NMAC [N						
Downia ID	Cocility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of	Smpl.	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
Permit ID	Facility		AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
Control of the Contro	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		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]	<=		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]	<=		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]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	022	р.	P1	022-IW	IW - Impaired Water	00010-1-0	Temperature, water deg. centigrade	<=		Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
MINIMUSUUTS	tos Alamos National Laboratory	ULL			522										7,2,2020	11,00,000	2,02,2020
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]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
		026	P	P1	026-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	026	p p	P1	026-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	4=		Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	020	-	12	520 144		101010	The second of th		24	The state of the s	oce c	2/111	- Or	1/1/2019	11/30/2013	1/31/1020
NIMPOFO013	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
***************************************	Los Alamos National Laboratory	029	N	N2	029-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
		029	N	N2	029-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
1	Los Alamos National Laboratory Los Alamos National Laboratory	029	N N	N2 N2	029-IW	IW Impaired Water	00010 1 0	Temperature, water deg. centigrade	4=		Maximum	deg-C	1/YR	Gf	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	929	14	IVE	025 144	in imported traces	0001010	remperature, water deg. certagrade		27	WIGARITION	ucge	A) THE	Gi	4/1/2015	11/30/2013	1/31/2020
NIN 4005 001 7	Los Alamos National Laboratory	031	р	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
		031	P	P1	031-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory		P	P1	031-IW	IW - Impaired Water	71900 1 0	Mercury, total [as Hg]	<=		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]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	031	P		031-100	inv - impaned water	3331010	rolychlorillated olphenyls [rebs]		0.2	VIAXIIIIUIII	ug/L	1) 11	- Oi	4/1/2019	11/30/2013	1/31/2020
NI 45050043	Las Alemas National Laboratory	032	Р	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	n n	P1	032 IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory		P D	P1	032-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	032	P P	P1	032-IW	IW - Impaired Water	00010-1-0	Temperature, water deg. centigrade	<=		Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	032		F±	032 144	inpaned water	00010-1-0	Temperature, water deg. certigrade		24 1	VIOXIIIIUIII	ueg e	2/1N	91	4/1/2019	11/30/2019	1/51/2020
	N. Alexandre	036	Д	P1	036-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	4=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory		D D	P1	036 IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	036	-	P1	036-IW	IW Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	-		Maximum	ug/L	1/YR	Gf	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	036	P P	P1	036-IW	IW Impaired Water	00010 1 0	Temperature, water deg. centigrade	4=		Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	036	+	71	U30-144	IW - Impaired Water	00010-1-0	remperature, water deg. centigrade		24	vidximum	uege	2/-11	401	4/1/2019	11/30/2019	1/31/2020
		027	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
	Los Alamos National Laboratory	037	P	P1	037-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019		1/31/2020
NMR050013	Los Alamos National Laboratory		P	P1	037-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	The second second second		1/31/2020
NMR050013	Los Alamos National Laboratory	037	-	LT	337-100		15555	- James marco pipitentis (r eps)	\- <u>-</u>	0.2	- MANINGEN	MB/ L	±/ 1ft	UI .	7/1/2013	11,30,2013	1/31/2020
NIMPOTOGGG	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
	Los Alamos National Laboratory	039	P	P1	039-IW	IW - Impaired Water	0104010	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	039	P	P1	039-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	039	ρ	P1	039-IW	IW - Impaired Water	00010-1-0	Temperature, water deg. centigrade	4=		Vlaximum	deg-C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	U-55	-	1 1	V35 IV	1.1.1 - 1.1.1 provinces of model.			,	27	- Actividati	GC8-C	A) TH	Gr.	1/1/2019	11/30/2019	1/31/2020
NA ADOSCOSA S	Las Alamas National Laborators	042	D	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	0104010	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	_	P	P1	042-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	042	P P	P1 P1	042-1W	IW - Impaired Water	00010-1-0	Temperature, water deg. centigrade	=		Maximum Maximum	deg-C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	042	+	+++	012-144	inpance water	00010-1-0	remperature, water begreeningrade	_	24 1	viaximum	neg-e	1/1A	OI	4/1/2019	11/30/2013	1/31/2020
						D1 - Asphalt Paving and Roofing Materials and											
		043		D1	043-D1	Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	me/l	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	043	D	D1	U43-U1	D1 - Asphalt Paving and Roofing Materials and	00330 10	Johns, total suspended	\ <u></u>	1001	VICALIIIUIII	mg/L	1/00	GI	4/1/2019	3/31/2019	1/21/2019
	499021	040		D1	043-D1	Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	madi	1/60	Gr	6/1/2010	7/21/2010	0/20/2010
NMR050013	Los Alamos National Laboratory	043	D	D1	U45-D1	D1 - Asphalt Paving and Roofing Materials and	00330 1 0	Jonas, total suspended	\- <u>-</u>	100 1	Maximum	mg/L	1/60	GI	6/1/2019	7/31/2019	9/30/2019

MMR050013 Los A	Facility S Alamos National Laboratory S Alamos National Laboratory	Permitted Feature 043 043 043 043 043	D D D D	Subsector D1 D1 D1 D1	Consolidated Discharge # (Limit Set) 043-D1 043-1D 043-1D	Discharge Description D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing 1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing 1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	Parameter Code 00530 1 0 00556 1 0	Parameter Name Solids, total suspended Oil & Grease	Symbol <=	Quality Value	6.4.900 NMAC [No Limit Type Maximum		Freq. of Analysis	Smpl.	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
MMR050013 Los A	s Alamos National Laboratory	043 043 043 043 043	D D D	D1 D1 D1	043-1D 043-1D	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing 1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing 1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	Code 00530 1 0	Solids, total suspended		Value			Analysis	Туре	Period Start Date	Period End Date	1
MMR050013 Los A	s Alamos National Laboratory	043 043 043 043	D D D	D1 D1 D1	043-D1 043-1D 043-1D	D1 - Asphalt Paving and Roofing Materials and Lubricant Manufacturing 1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing 1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 0	Solids, total suspended					57565				Date
MMR050013 Los A	s Alamos National Laboratory	043 043 043	D D	D1	043-1D 043-1D	Lubricant Manufacturing 1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing 1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing			<=	100	Maximum	mg/L	1/60	Gr	10/1/2019	44 /00 /0040	
MMR050013 Los A	s Alamos National Laboratory	043 043 043	D D	D1	043-1D 043-1D	1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing 1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing				200			-/	-		11/30/2019	1/31/2020
MMR050013 Los A	s Alamos National Laboratory	043 043 043	D D	D1	043-1D	Lubricant Manufacturing 1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00556 1 0	Oil & Grease							20/2/2020	24,00,202	2,22,202
MMR050013 Los A	s Alamos National Laboratory	043 043 043	D			Lubricant Manufacturing			<=	10	30-Day Average	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Los A	s Alamos National Laboratory	043	D			The state of the s											
NMR050013 Los A	s Alamos National Laboratory	043		D1	043-1D		00556 1 0	Oil & Grease	<=	15	Daily Maximum	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Los A	s Alamos National Laboratory	043		D1	043-1D	1D - Asphalt Paving and Roofing Materials and	demonstration of							l /			
NMR050013 Los A	s Alamos National Laboratory s Alamos National Laboratory s Alamos National Laboratory s Alamos National Laboratory		D		0.00	Lubricant Manufacturing	00400 1 0	pH	>=	6	Minimum	SU	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Los A	s Alamos National Laboratory s Alamos National Laboratory s Alamos National Laboratory s Alamos National Laboratory		D	1		1D - Asphalt Paving and Roofing Materials and	0010010	500				511	4.00		4 /4 /2040	44 (20 (2040	4 /04 /000
NMR050013 Los A	s Alamos National Laboratory s Alamos National Laboratory s Alamos National Laboratory	043		D1	043-1D	Lubricant Manufacturing	00400 1 0	pH	<=	9	Maximum	SU	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Los A	s Alamos National Laboratory s Alamos National Laboratory s Alamos National Laboratory	043	_	D1	043.10	1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00530 1 0	Solids total suspended		15	30-Day Average	ma/1	1 /VD	c.	4/1/2019	11/20/2010	1/31/2020
NMR050013 Los A	s Alamos National Laboratory s Alamos National Laboratory		D	D1	043-1D	1D - Asphalt Paving and Roofing Materials and	00530 1 0	Solids, total suspended	<=	15	50-Day Average	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Los A	s Alamos National Laboratory s Alamos National Laboratory	043	D	D1	043-1D	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
NMR050013 Los A	s Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	51931 1 0	Adjusted Gross Alpha	<=		Maximum	pCi/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Los A		043	D	D1	043-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Los A NMR050013 Los A		043	D	D1	043-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Los A NMR050013 Los A	s Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	71900 1 0	Mercury, total [as Hg]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Los A NMR050013 Los A	,																
NMR050013 Los A NMR050013 Los A NMR050013 Los A NMR050013 Los A NMR050013 Los A NMR050013 Los A NMR050013 Los A	s Alamos National Laboratory	074	Α	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
NMR050013 Los A NMR050013 Los A NMR050013 Los A NMR050013 Los A NMR050013 Los A NMR050013 Los A	s Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=		Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013 Los A NMR050013 Los A NMR050013 Los A NMR050013 Los A NMR050013 Los A	s Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	<=		Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013 Los A NMR050013 Los A NMR050013 Los A NMR050013 Los A	s Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=		Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013 Los A NMR050013 Los A NMR050013 Los A	s Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	<=		Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013 Los A NMR050013 Los A	s Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=	-	Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013 Los A	s Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0 00530 1 0	Chemical Oxygen Demand [COD] Solids, total suspended	<=		Maximum Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019 11/30/2019	1/31/2020
	s Alamos National Laboratory	074	A	A4 A4	074-A4 074-IW	A4 - Hardwood Dimension and Flooring Mills IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	mg/L ug/L	1/60 1/YR	Gr Gr	4/1/2019	11/30/2019	1/31/2020
VMR050013 Los A	s Alamos National Laboratory s Alamos National Laboratory	074 074	A	A4 A4	074-IW	IW - Impaired Water	0104010	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	s Alamos National Laboratory	074	A	A4	074-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	s Alamos National Laboratory	074	A	A4	074-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	4=		Məximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
MINIOSOULS LOST	3 Harris Having Lass State																
VMR050013 Los A	s Alamos National Laboratory	075	Р	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
NMR050013 Los A	s Alamos National Laboratory	075	Р	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
NMR050013 Los A	s Alamos National Laboratory	075	Р	P1	075-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 Los A	s Alamos National Laboratory	075	P	P1	075-IW	IW Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	2 4	Maximum	deg-C	1/YR	Gŧ	4/1/2019	11/30/2019	1/31/2020
					1												
	s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	4/1/2020	5/31/2020	7/31/2020
The state of the s	s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 0 51450 1 0	Iron, total [as Fe] Nitrite Plus Nitrate Total	<=		Maximum Maximum	ug/L	1/60	Gr C-	4/1/2020	5/31/2020	7/31/2020
	s Alamos National Laboratory	076	AA	AA1	076-11 076-11	11- Fabricated Metal Products, except Coating 11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<= <=		Maximum	mg/L ug/L	1/60 1/60	Gr Gr	4/1/2020 4/1/2020	5/31/2020 5/31/2020	7/31/2020 7/31/2020
	s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
	s Alamos National Laboratory	076 076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 0	iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
	s Alamos National Laboratory s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
	s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
	s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
	s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
1000	s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
VMR050013 Los /	s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
NMR050013 Los A	s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
	s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
		076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
	s Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	ug/L ug/L	1/60	Gr			1/31/2020
NMR050013 Los A		076	AA	AA1	076-IW	IW - Impaired Water	107704 7 0	Aluminum, total recoverable [as Al]	<=	TOTO	Maximum	11971	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020

										The same of the sa	paired Waters Lin .6.4.900 NMAC [N	CONTRACTOR OF STREET					
		Permitted		Subsector	Consolidated Discharge # (Limit Set)		Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of		_	Monitoring Period End Date	DMR Due Date
Permit ID	Facility	Feature	Sector(s)	Subsector	(Limit Set)	Discharge Description	Code	Parameter (value	Зуппоп	Value	Limit Type	Ullits	Allalysis	Type			
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-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
Additions to N	OI and NetDMR are in BOLD .																
Deletions from	NOI and NetDMR are indicated by	strikethrough	-														
	dicates no change to NOI or NetDM																

ATTACHMENT 2: SWPPP AMENDMENTS

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

ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES

Unauthorized Non-Storm Water Discharge Assessment and Certification

Facility: TA-60-02 Salv	TA-60-02 Salvage/Warehouse			
Outfalls (including SIOs*) or Other Onsite Drainage Points Observed During the Assessment	Identified Potential Sources of Unauthorized Non-Storm Water Discharge (if applicable)	Description of Assessment Criterion Used	Describe any Required Actions to Control or Eliminate the Discharge	Control or
026 (027, 028)	None	Visual Inspection	N/A	
075	None	Visual Inspection	N/A	
Assessor:				
Print Name:		Title:	Date Assessed:	
Jillian E. Burgin	Jehren Brocker	DEP, CISEC	12/19/18	
Authorized Signatory: I certify that qualified personnel properly ga responsible for gathering the inform submitting false information, includii	Authorized Signatory: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	were prepared under my directic d on my inquiry of the person or ge and belief, true, accurate, an ns.	on or supervision in accordance with a system despersons who manage the system, or those person complete. I am aware that there are significant p	igned to assure ns directly enalties for
		The same of the sa		

*SIO = Substantially Identical Outfall

Plussell Ston

Print Name:

Signature:

Date Certified:

SSU MAY 4 DOSH-UZS

TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

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

DEC 1 1 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 Intents (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:



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

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.

Sincerely.

Enrique Torres Division Leader

Environmental Protection & Compliance Division

ET/TWL/MTS:jdm



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

Attachment(s): None.

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



TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 5: DISCHARGE MONITORING REPORTS

DMR Copy of Record

LOS ALAMOS NATIONAL LABORATORY PO BOX 1663 LOS ALAMOS, NM 87545 **NetDMR Validated** Facility Location: Facility: Status: TRIAD NATIONAL SECURITY LLC PO BOX 1663 MS K490 LOS ALAMOS, NM 87545 **026-IW** Impaired Water 01/31/20 Permittee Address: DMR Due Date: Discharge: Permittee: From 12/01/18 to 11/30/19 026 External Outfall NMR050013 ę Report Dates & Status Monitoring Period: Permitted Feature: Permit #: Permit Major:

Yearly based upon the alternate monitoring season of April 1 through November 30. Considerations for Form Completion

Title:

Telephone:

Principal Executive Officer

First Name: Last Name:

No Data Indicator (NODI)

	Quality	ier 2 Va
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		Qualifier '
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	Quant	Value 1
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FORTH NODE:		Code

	Parameter	Monitoring Location Season # Param. NODI	1 Season #	Param. NODI		Quantity or Loading			Quality or Concentration	tion	# of	Ex. Frequ	# of Ex. Frequency of Analysis Sample Type	Sample Type
Code	Name					Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Value 2 Qualifier 3	2 Units Qualifier 1	Value 1 Qualifi	er 2 Value 2 Qualifier	3 Value 3	Units			
					Sample					29.67	28 - ug/L	01/YR	11/YR - Annual	GR - GRAB
X 0104C	X 01040 Copper, dissolved [as Cu]	1 - Effluent Gross	0	-	Permit Req.				ij	7.0 MAXIMUM	28 - ug/L 1	01/YR	11/YR - Annual	GR - GRAB
					Value NODI									
					Sample					2350.0	28 - ug/L	01/YR	1/YR - Annual	GR - GRAB
X 01104	X 01104 Aluminum, total recoverable	1 - Effluent Gross	0	-	Permit Req.				ij	1010.0 MAXIM	1010.0 MAXIMUM 28 - ug/L 1	01/YR	11/YR - Annual	GR - GRAB
					Value NODI									
					Sample				V	0.034	28 - ug/L	01/YR	11/YR - Annual	GR - GRAB
39516	39516 Polychlorinated biphenyls [PCBs] 1 - Effluent Gross	1 - Effluent Gross	0		Permit Req.				₩	0.2 MAXIMUM	28 - ug/L 0	01/YR	1/YR - Annual	GR - GRAB
					Value MODI									

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	M	7	L	o in in o co C	os polimondo V
Code	Name	Monitoring Eocation	בייי	adk -		Ackilowiedge
01040	O1040 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	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 AI 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

Leslie Dale

E-Mail: Name:

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

leslie@lanl.gov

Report Last Signed By User:

Name:

Date/Time:

TERRILLLEMKE Terrill Lemke

2020-01-09 13:29 (Time Zone: -06:00) tlemke@lanl.gov Date/Time: E-Mail:

DMR Copy of Record

Permit

LOS ALAMOS NATIONAL LABORATORY PO BOX 1663 LOS ALAMOS, NM 87545 Facility Location: Facility: TRIAD NATIONAL SECURITY LLC PO BOX 1663 MS K490 LOS ALAMOS, NM 87545 **075-IW** Impaired Water Permittee Address: Discharge: Permittee: 075 External Outfall NMR050013 g Report Dates & Status Permitted Feature: Permit #: Major:

01/31/20 **DMR** Due Date: From 12/01/18 to 11/30/19 Monitoring Period:

NetDMR Validated

Status:

Telephone:

Considerations for Form Completion

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

Principal Executive Officer

Last Name: First Name:

Title:

No Data Indicator (NODI)

Quality or Concentration Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Value 2 Qualifier 3 **Quantity or Loading** Monitoring Location Season # Param. NODI Parameter Form NODI: Code

of Ex. Frequency of Analysis Sample Type GR - GRAB 01/YR - Annual 28 - ug/L 28 - ug/L 0 28 - ug/L 1 1010.0 MAXIMUM 28 - ug/L 1 28 - ug/L 28 - ug/L 7.0 MAXIMUM 0.2 MAXIMUM 5760.0 37.0 II V II V v V Permit Req. Value NODI Permit Req. Permit Req. Value NODI Value NODI Sample 0 0 1 - Effluent Gross 1 - Effluent Gross 39516 Polychlorinated biphenyls [PCBs] 1 - Effluent Gross X 01104 Aluminum, total recoverable X 01040 Copper, dissolved [as Cu]

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 I oceanion	7	Tvno	Docoringion	
Code	Name			- ybe	TOROLL DOS	
01040	1040 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	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 AI 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:

Report Last Signed By Date/Time:

E-Mail:

Name:

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

leslie@lanl.gov

leslie@lanl.gov Leslie Dale TERRILLLEMKE Name: User:

2020-01-09 13:29 (Time Zone: -06:00) tlemke@lanl.gov Terrill Lemke Date/Time: E-Mail:

TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 6: ANNUAL REPORTS



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 3 0 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,

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

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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 3 0 2019	

NPDES FORM 6100-28



United States Environmental Protection Agency Washington, DC 20460

ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES THE NPDES MULTI-SECTOR GENERAL PERMIT

Form Approved. OMB No. 2040-0004

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

E. Certification I	nformation
designed to assure who manage the and belief, true, as	nalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system e that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge occurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine to knowing violations.
First Name, Middle	e Initial, Last Name:
Title:	
Signature:	
E-mail:	

Table 1. Summary of Inspections and Associated Corrective Actions

Facility	Ctatus	Inspections Conducted	Unauthorized	Control Measures Needing	Control Measures Inadequate to
6		and 1/9/2019	Discharge	Replacement	Meet Non-Numeric Efficient Limitations
TA-3-22 Power and Steam Plant	Active	2	1	. 3	2
TA-3-29 Indoor TSD	No Exposure	1	I	Ī	1
TA-3-29 Machine Shop	No Exposure	1	1	Ī	1
TA-3-30 Warehouse	No Exposure	1	1	I	2
TA-3-32 Metal Shop	No Exposure	1	1	Ī	1
TA-3-34-Metal Shop	No Exposure	1	1	Ī	1
TA-3-38 Carpenter Shop	Active	2	1	Ī	1
TA-3-38 Metals Fabrication Shop	Active	2	ı	Ī	2
TA-3-39 and 102 Metal Shop	No Exposure	1	1	I	2
TA-3-40, Room 131S Machine Shop	No Exposure	1	1	I	1
TA-3-66 Sigma Facility	No Exposure	1	1	I	1
TA-3-2206 Warehouse	No Exposure	1	1	1	1
TA-9-28 Heavy Equipment Maintenance	No Exposure	1	I	ſ	1
TA-14-23 Burn Cage	No Exposure	1	1	1	1
TA-15-185 Phermex	Inactive	1	1	I	T
TA-15-313 Machine Shop	No Exposure	1	ı	I	I
TA-22-52 Machine Shop	No Exposure	1	1	I	Н
TA-33-39 Machine Shop	No Exposure	1	_	1	Н
TA-33-113 Machine Shop	No Exposure	1	1	ı	Н
TA-35-2 Machine Shop	No Exposure	1	1	1	1
TA-35-125 Machine Shop	No Exposure	1	1	l	I
TA-35-213 Machine Shop	No Exposure	1	ı		1
TA-46-31 Machine Shop	No Exposure	1	Ι	ļ	1
TA-46-77	No Exposure	1	_		1
TA-48-8 Machine Shop	No Exposure	1	I		ı
TA-50-54 Machine Shop	No Exposure	1		I	I
TA-50-69 WCRRF	No Exposure	1	ı		I
TA-53-2 Machine Shop	No Exposure	1	1		I
TA-53-16/0726 Machine Shop	No Exposure	1	1		2
TA-53-26 Machine Shop	No Exposure	1	ı		2
TA-54-38 Indoor TSD	No Exposure	1	ı		I
TA-54-38 Outdoor TSD	No Exposure	1	I	1	I
TA-55-3 Metal Shop	No Exposure	1	I	1	1
TA-55-PF-4 Indoor TSD	No Exposure	1	Ι	_	I
TA-55-5 Warehouse	No Exposure	1	1	I	I
TA-55-268 Warehouse	No Exposure	1	1	Ī	I
TA-55-314 Warehouse	No Exposure	1	1	I	1

Facility	Status	Inspections Conducted Between 11/1/2018	Unauthorized Release or	Control Measures Needing Maintenance, Repair, or	Control Measures Inadequate to Meet Non-Numeric Effluent
		and 1/9/2019	Discharge	Replacement	Limitations
TA-55-355	No Exposure	1	1		
TA-55-432	No Exposure	1	1	1	
TA-55 Outdoor TSD	No Exposure	1	1	1	
TA-60 Asphalt Batch Plant	Active	2	1	1	1
TA-60 MRF	Active	2		1	11 (1
TA-60 Roads and Grounds	Active	2	3	1) (r
TA-60-1 Heavy Equipment Yard	Active	2	1	-	10
TA-60-2 Warehouse	Active	2	1	1	1
TA-63 Transuranic Waste Facility	No Exposure	П		1	
Totals	46	54	6	20	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

Pacility Description	Inspection	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
	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.	o _N	12/20/2018	02/28/2019	N/A	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
	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.
	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	ON	Not documented.	1/31/2019	N/A	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.

Description of Noncompliance		Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
Corrective Action Completion	Date	1/29/2019	N/A	N/A
Expected Completion Date		N/A	2/28/2019	1/31/2019
Date Corrective Action was Initiated		Not documented.	12/20/2018	Not documented.
Completed		Yes	O _N	ON
Corrective Action Description	down on 1/28/2019 determined the snow melted enough to be place tarps on the identified equipment and metal by 1/31/2019.	Tires were transported to MRF where they will be covered, then transported to the Los Alamos County Landfill.	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.	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
Problem Description	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.	On the east side of the TA-60-1, Heavy Equipment Yard, tires are being stockpiled outside with no stormwater controls in place.	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.	At several locations within the TA-60-1 Heavy Equipment Yard, either metal storage racks are not covers, the existing covers need to be
Finding Description	effluent limitations	Control measure inadequate to meet non- numeric effluent limitations	Control measure inadequate to meet non- numeric effluent limitations	Control measure inadequate to meet non- numeric
Inspection Type Description		Routine facility inspection	Routine facility inspection	Routine facility inspection
Inspection Date		12/19/2018	12/19/2018	12/19/2018
Facility Description		TA-60-1 Heavy Equipment Yard	TA-60-1 Heavy Equipment Yard	TA-60-1 Heavy Equipment Yard

Description of Noncompliance		Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.	Inadequate documentation of requirements in Part 4.3.2.
Corrective Action Completion	מונב	12/21/2018	1/29/2019	1/26/2019
Expected Completion Date		N/A	N/A	N/A
Date Corrective Action was Initiated		Not documented.	documented.	12/17/2018
Completed		Yes	Yes	Yes
Corrective Action Description	installed to cover materials by 1/31/2019.	Part of the steel was covered or removed on 12/21/2018.	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.	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
Problem Description	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).	Steel, for fabrication of ladder racks, was stored outside west of TA-60-1 without being covered.	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.	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.
Finding Description	effluent limitations	Control measure inadequate to meet non- numeric effluent limitations	Control measure inadequate to meet non- numeric effluent limitations	Control measure inadequate to meet non- numeric effluent limitations
Inspection Type Description		Routine facility inspection	Routine facility inspection	Routine facility inspection
Inspection Date		12/19/2018	12/19/2018	12/17/2018
Facility Description		TA-60-1 Heavy Equipment Yard	TA-60-1 Heavy Equipment Yard	TA-60 Roads and Grounds

Description of Noncompliance		of requirements in Part 4.3.2.
Corrective Action Completion Date		N/A
Expected Completion Date	9	2/28/2019
Date Corrective Action was Initiated		12/17/2018
Completed		0 Z
Corrective Action Description	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.	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.
Problem Description		At the TA-60 Asphalt Batch Plant, the pump to the heating oil tank is leaking oil.
Finding Description		Unauthorized release or discharge
Inspection Type Description		Routine facility inspection
Inspection Date		12/17/2018
Facility Description		TA-60 Asphalt Batch Plant

Initiated Date Completion Date Date	Inspection Finding Type Descript	tion	Problem Description	Corrective Action Description	Completed	Completed Date Corrective	Expected	Corrective	Description of
Date Date						Initiated	Date	Completion	
	- 1							Date	

ATTACHMENT 2

Email correspondence from Nasim Jahan dated 9/26/2018

EPC-DO: 19-029

LA-UR: 19-20724

From:

Lemke, Terrill W

To: Subject: Dolan, Timothy Aloysius; Dale, Leslie J; Wheeler, Holly Lynn

Subject Date:

FW: Request for LANL Paper MSGP NOI Waiver Wednesday, September 26, 2018 4:15:53 PM

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

From:

Emily Hack (Avanti) (EPA NeT Support)

Cc: Subject: Jahan Nasim; Wheeler, Holly Lynn; Dale, Leslie J; Hazen, Michael W 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 26, 13:12 FDT

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

TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

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)

Reason: 2019 December Inspections

Target: 12/31/2019

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program
 品 RG121.9

A TA-60-2 Warehouse

Contact: Phone:

asks				
#	Description 7 1 1 1 Meas.	No	N/A	Yes
Weat	her Information			/
20	Describe the weather at time of inspection and document the temperature (F°).	5	П	7
Withi	n the Facility Boundary		wk	_
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.	П	M	V
50	If "No" has a CAR been previously initiated for this new discharge?		V	Til.
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		П	<u></u>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.			
	Il Inspection (identify needed maintenance and repairs, failed control measures that need replacement, octive actions in relevant task comment) Monitored Outfall [026] Free of Evidence of Erosion? If "No", describe.	or a des	scriptio	n of
100	Monitored Outfall [026] Flow Dissipation Devices Operating Effectively? If "No", describe.	· 🗖		
110	Monitored Outfall [026] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			P
120	Monitored Outfall [026] Free of any unauthorized non-stormwater discharges? If "No" describe.			IV
130	Monitored Outfall [075] Free of Evidence of Erosion? If "No", describe.	Ē		ī
140	Monitored Outfall [075] Flow Dissipation Devices Operating Effectively? If "No", describe.			T
150	Monitored Outfall [075] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			
160	Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No" describe.			
170	Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe.			
180	Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If "No", describe.			
190	Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	П	Г	
200	Substantially Identical Outfall [027] Free of any unauthorized non-stormwater discharges? If "No" describe.			
210	Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.	F		
220	Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No", describe.	Г	П	
230	Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	Б		P
240	Substantially Identical Outfall [028] Free of any unauthorized non-stormwater discharges? If "No" describe.	Г		
	ol Measures (identify needed maintenance and repairs, failed control measures that need replacment, or ctive actions in relevant task comments).	a desc	ription	of
260	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
270	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			P /
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition			F

	& 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.				V
300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				P_
310	Rip Rap [6000504060019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			1	P
320	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г		✓
330	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П	Г		/
340	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П	г	1	احا
350	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement,	Б	Г		4
360	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		r	i	1
 370	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			 i	1
380	EnviroSoxx w/ MetalLoxx [6000503200016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г		7
390	EnviroSoxx w/ MetalLoxx [6000503200017] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	i	7
400	EnviroSoxx w/ MetalLoxx [6000503200018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	— [┏
Area/A	Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in r	elevant t	ask c	omi	nent).
420	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			Ų.	P
430	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.				P
440	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.			l:	<u>\\</u>
450	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.				7
460	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Town full 0x metal Storage rack	F	<u></u>	Į.	<u></u>
470	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				
480	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		J⊽	Z_{\perp}	П
490	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		▽	/	г
500	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.				P
510	Waste handling and disposal areas, controls adequate (appropriate, effective, and operating)? If "No" describe. Metal Waste Min full and uncounted Two Vins		, 		150
520	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.			î.	TV.
530	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.				P
540	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.				V
550	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	Б	Г		14
560	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	d d	Г		г
570	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г		T
80	Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	П			P
dar C	-				
Non-Co 300	ompliance Free of incidents of observed non-compliance not already identified above? If "No" describe.		-	10	1
	onal Control Measures			_	15/1
320	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	П	1		☞

Labor	Assigned Work	Date Reg Hrs	OT Hrs Other Hrs
Shendo, Marwin	12/10/2019 / 1		
Labor Report			
Completed:			120
2)11 2019		٠. ١. ٥	
CARI. Tarp was form on a metal	Storage rack in the	law Maja S.	forage area. Me
Duty tark was ordered but in	, the meintine they's	1 moster with	toto.
CARO TWO waste metal were that	and uncovered. Wet		
CAR 3: House keeping - Trach alon	of the trainty tend	, Sweeping wa	s occurring Dur
Mal. 12/11/1	Ġ		j
Signature / Name Date	Signature /	Name	Date
I confirm the information as recorded is true, accurate			54.0
	IFICATION STATEMENT		

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: Date: 1/8/2020

the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting

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 据 RG121.9

A TA-60-2 Warehouse

Contact: Phone:

Insp done 1125/19 1:00-1:30

Tasks					
#	Description	Meas.	No	N/A	Yes
Weat	her Information				
20	Describe the weather at time of inspection and document the temperature (F°). 48 °	vinda	E.		
Withi	n the Facility Boundary	clear			
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.			- П	F-
50	If "No" has a CAR been previously initiated for this new discharge?			I	
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		Į.		
desci	Il Inspection (identify needed maintenance and repairs, failed control measures that ne iption of corrective actions in relevant task comment)	ed replace	ment,	or a	
90	Monitored Outfall [026] Free of Evidence of Erosion? If "No", describe.				1
100	Monitored Outfall [026] Flow Dissipation Devices Operating Effectively? If "No", describe.			П	F-/
110	Monitored Outfall [026] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				<u> </u>
120	Monitored Outfall [026] Free of any unauthorized non-stormwater discharges? If "No" describe.				┌
130	Monitored Outfall [075] Free of Evidence of Erosion? If "No", describe.				<u> </u>
140	Monitored Outfall [075] Flow Dissipation Devices Operating Effectively? If "No", describe.				
150	Monitored Outfall [075] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
160	Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No" describe.				[-
170	Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe.		Г	Г	
180	Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If "No", describe.		П		
190	Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Ţ.		
200	Substantially Identical Outfall [027] Free of any unauthorized non-stormwater discharges? If "No" describe.				[]
210	Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.				<u> </u>
220	Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No", describe.				
230	Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			П	<u> </u>
240	Substantially Identical Outfall [028] Free of any unauthorized non-stormwater discharges? If "No" describe.				r_

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments). Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" 260 describe condition & need for Maintenance, Repair, or Replacement. Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating 270 effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement, Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. 280 Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe 290 condition & need for Maintenance, Repair, or Replacement, Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe 300 condition & need for Maintenance, Repair, or Replacement. Rip Rap [6000504060019] Control Measure is operating effectively? If "No" describe 310 condition & need for Maintenance, Repair, or Replacement. Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" 320 describe condition & need for Maintenance, Repair, or Replacement. Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" 330 describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. 340 Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" 350 describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" 360 describe condition & need for Maintenance, Repair, or Replacement. Trench Drain [6000509040011] Control Measure is operating effectively? If "No" 370 describe condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [6000503200016] Control Measure is operating effectively? If 380 "No" describe condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [6000503200017] Control Measure is operating effectively? If 390 "No" describe condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [6000503200018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. 400 Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment). Material loading/unloading and storage areas: controls adequate (appropriate, effective, 420 and operating)? If "No" describe. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and 430 operating)? If "No" describe. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, 440 and operating)? If "No" describe. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. 450 Industrial processing and finished product storage areas; controls adequate (appropriate... 460 effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, 470 and operating)? If "No" describe. Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" 480 Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, 490 and operating)? If "No" describe. 500 Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. 510 Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If 520 Locations and sources of run-on to the site: controls adequate (appropriate, effective, 530 and operating)? If "No" describe. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and 540 operating)? If "No" describe. 550 Dust generation and vehicle tracking: controls adequate (appropriate, effective, and

	— operating)? If "No" describe	
560	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	П П
F70	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	
570	Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate,	
580	effective, and operating)? If "No" describe.	
Non-C	ompliance	
000	Free of incidents of observed non-compliance not already identified above? If "No"	
600	describe.	
Additio	onal Control Measures	
620	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	
abor-		
Labor		eg Hrs OT Hrs Other
3urgin,	Jillian11/30/2019 / 1	
NB	wantiborin 1/25/19	
10		
	Sighature / Name Date Signature / Name	Date
confir		Date
confir	Sighature / Name Date Signature / Name	Date
ertify u rdance ed on n mation	Signature / Name The information as recorded is true, accurate and complete. CERTIFICATION STATEMENT Inder penalty of law that this document and all attachments were prepared under my directive with a system designed to assure that qualified personnel properly gathered and evaluated my inquiry of the person or persons who manage the system, or those persons directly response, the information submitted is, to the best of my knowledge and belief, true, accurate, and ignificant penalties for submitting false information, including the possibility of fine and in	ion or supervision in I the information submonsible for gathering complete. I am aware
ertify urdanceed on mermation are si	Signature / Name The information as recorded is true, accurate and complete. CERTIFICATION STATEMENT Inder penalty of law that this document and all attachments were prepared under my directive with a system designed to assure that qualified personnel properly gathered and evaluated my inquiry of the person or persons who manage the system, or those persons directly response, the information submitted is, to the best of my knowledge and belief, true, accurate, and ignificant penalties for submitting false information, including the possibility of fine and in	ion or supervision in I the information submonsible for gathering complete. I am aware
ertify urdanceed on mation are sitions"	Signature / Name The information as recorded is true, accurate and complete. CERTIFICATION STATEMENT Inder penalty of law that this document and all attachments were prepared under my directive with a system designed to assure that qualified personnel properly gathered and evaluated my inquiry of the person or persons who manage the system, or those persons directly response, the information submitted is, to the best of my knowledge and belief, true, accurate, and agnificant penalties for submitting false information, including the possibility of fine and in the information of the person of the person of the best of my knowledge and belief, true, accurate, and agnificant penalties for submitting false information, including the possibility of fine and in the information of the person of	ion or supervision in I the information submonsible for gathering complete. I am aware

Work Order MSGP-RI-64031 Los Alamos National Laboratory MSGP Routine Inspection Printed 10/14/2019 - 4:43 PM **Maintenance Details** Requested: 10/14/2019 4:41:48 PM Target: 10/31/2019 🛅 MSGP Program Procedure: MSGP Routine Facility 品 RG121.9 Priority/Type: Normal / Inspection Inspection (EPC-CP-Form-**Department:** Utilities and Infrastructure TA-60-2 Warehouse 1020.2)Last PM: 9/26/2019 Contact: Routine Facility Inspections Project: Phone: Inap done October 2019 (P-MSGP-RI-5410) 10130119 Reason: 2019 October Inspections 11:30 - 12:00 **Tasks** Description Meas No Yes Weather Information Describe the weather at time of inspection and document the temperature (F°). Within the Facility Boundary Is the facility free of new discharges of pollutants that have occurred since the last inspection? If 40 "Failed" describe, 50 If "No" has a CAR been previously initiated for this new discharge? Is the facility free of discharge of pollutants at the time of inspection? If "No" describe Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" 70 describe. Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) Monitored Outfall [026] Free of Evidence of Erosion? If "No", describe 100 Monitored Outfall [026] Flow Dissipation Devices Operating Effectively? If "No", describe, Monitored Outfall [026] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If 110 "No", describe 120 Monitored Outfall [026] Free of any unauthorized non-stormwater discharges? If "No" describe, 130 Monitored Outfall [075] Free of Evidence of Erosion? If "No", describe, 140 Monitored Outfall [075] Flow Dissipation Devices Operating Effectively? If "No", describe, Monitored Outfall [075] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If 150 "No", describe 160 Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No" describe. 170 Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe. Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If "No". 180 Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. 190 Substantially Identical Outfall [027] Free of any unauthorized non-stormwater discharges? If "No"

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe

Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No",

Substantially Identical Outfall [028] Free of any unauthorized non-stormwater discharges? If "No"

Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or

200

210

220

230

240

describe

describe

describe.

Receiving Water? If "No", describe.

	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition		
260	& need for Maintenance, Repair, or Replacement.		1
	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If		
270	"No" describe condition & need for Maintenance, Repair, or Replacement.		1
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition &		Tu

-		need for Maintenance, Repair, or Replacement.				1
2	290	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П		
3	300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П		
3	310	Rip Rap [6000504060019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
3	320	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П			
3	30	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
3	40	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			TV.	
3	50	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г			
3	60	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
3	70	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			-	
3	80	EnviroSoxx w/ MetalLoxx [6000503200016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Б	П	-	
3	90	EnviroSoxx w/ MetalLoxx [6000503200017] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
4	00	EnviroSoxx w/ MetalLoxx [6000503200018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
Λ	rea/A	ctivity exposed to stormwater (identify needed mainteance or a description of corrective actions in releva	500 V			
	псциде	Material leading/unleading and storage group controls when the formula in the group of the group	int task	comm	ined	w.
4	20	operating)? If "No" describe. Brown furniture (particle board needs to	-			ARIL
-		Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If	-			1637
4	30	"No" describe. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and		П		1437
4	40	operating)? If "No" describe.	D.	1.0	The	
4	50	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		<u>.</u>	T-	
40	60	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				
4	70	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				
48	30	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	П	T.	Г	
49	90	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	П.	-	П	
50	00	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	П			
51	10	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		П.		
52	20	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		П		
53	30	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	П.			
54	10	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	П	Г		
<u>55</u>	50	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.				
56		Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	П	В	-	
57	0	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe, Mi croblecte	V	Г	Г	-
58	80	Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	0	Γ Γ	or on	asp hall
M.	ነበ-ሮ ጥ	npliance				111/4
60		Free of incidents of observed non-compliance not already identified above? If "No" describe.	<u>Fi</u>			1638
Αc	dition	al Control Measures				
62		Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		П	TV.	
			2.0			

	N.			
Labor				
Labor Burgin, Jillian	Assigned 10/14/2019 / 1	Work Date	Reg Hrs OT Hr	os Other Hrs
Labor Report			,	
Completed:				
Report:				
Signature / Name I confirm the information as recorded is true, accorded	Date Sign curate and complete.	ature / Name	: 2	Date
	CERTIFICATION STATEMENT			
"I certify under penalty of law that this document and system designed to assure that qualified personnel properson or persons who manage the system, or those put the best of my knowledge and belief, true, accurate, a false information, including the possibility of fine an	roperly gathered and evaluated the info persons directly responsible for gather and complete. I am aware that there an	ormation subming information significant pe	itted. Based on my in, the information su	inquiry of the abmitted is, to
(Signatory must meet definition in Section B.11.A, eg. FOD, Ops	Mgr, DESH Group Leader, EPC Group Leade	er)		
Print name and title: Russell Sta	ne GK DESH-UTS	7		
Signature: Russell Stee	Date:	1/8/2017		

os Alamos National Laboratory Work Orde			MSGF	Routin	RI-6394 le Inspecti 9 - 3:29 P	
/lainten	ance Details —————					
Procedui	re: MSGP Routine Facility Print Inspection (EPC-CP-Form-1020,2)	get: 9/30/2019 ority/Type: Normal / Inspection partment: Utilities and Infrastructure	MSGP Program 급급 RG121.9 📤 TA-60-2 Warehouse	ı		
_ast PM: Project:	7/24/2019 Routine Facility Inspections September 2019 (P-MSGP-RI-	Insp. done	Contact: Phone:			
Doscon.	5401) 2019 September Inspections	Insp. done 9/21/19				
veason,	2019 September Inspections	11:30 -12:00				
asks —						
#	Description		Meas.	No	N/A	Yes
Neather	Information					
20	Describe the weather at time of inspection	and document the temperature (F°).	720 Suny			TE-
Mithin th	e Facility Boundary					
		lutants that have occurred since the last in				
40	'Failed" describe.	rutants that have occurred since the last in	ispection? if			TT-
50	If "No" has a CAR been previously initial	ted for this new discharge?				
60		s at the time of inspection? If "No" describe	e.			
		tential for, pollutants entering the drainage		——————————————————————————————————————		<u> </u>
Outfall Ir	spection (identify needed maintenance	and repairs, failed control measures t	nat need replacement or :	a des	crintia.	
correctiv	e actions in relevant task comment)	-	,,,,,,,			
	Monitored Outfall [026] Free of Evidence	of Erosion? If "No", describe.				II.
		Devices Operating Effectively? If "No", de				<u> </u>
		of Pollutants in Discharges and/or Receiv	ving Water? If			
	'No", describe.	distribution of the first content		ㅁ.	┲.	<u> </u>
		thorized non-stormwater discharges? If "N		<u></u> .	0_0	
	Monitored Outfall [075] Free of Evidence	of Erosion? If "No", describe	langular res	<u> </u>		1
		Devices Operating Effectively? If "No", de		101	CT2-16	CALLER
150	No", describe.	of Pollutants in Discharges and/or Received	ing Water? If			
		thorized non-stormwater discharges? If "N	lo" describe	-		
		of Evidence of Erosion? If "No", describe				
		v Dissipation Devices Operating Effectively			_ 	
		of Evidence of Pollutants in Discharges a	and/or			
		of any unauthorized non-stormwater disc	harges? If			

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.

Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No",

Substantially Identical Outfall [028] Free of any unauthorized non-stormwater discharges? If

Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or

210

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Receiving Water? If "No", describe.

"No" describe.

Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.

Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.

280 Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition

	& 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.				
300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				1
310	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				4
320	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				1
330	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б		
340	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
350	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				<u> </u>
360	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б	Г	<u> </u>
	EnviroSoxx w/ MetalLoxx [6000503200014] Control Measure is operating effectively? If "No"	123	19_		<u> </u>
370	describe condition & need for Maintenance, Repair, or Replacement. Replaced wlo 9 EnviroSoxx w/ MetalLoxx [6000503200015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	912	3/10	7	<u> </u>
380	activity exposed to stormwater (identify needed mainteance or a description of corrective action		vant tas	k com	ment)
Aleair	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and	3 III I CIC	VOIIL COL	ik com	iliciti).
400	operating)? If "No" describe.				<u></u>
410	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<u></u> ,		<u></u>
420	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.				
430	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.				سنا
440	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			į	<u>u</u>
450	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				
460	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				
470	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			Te/	
480	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.				
490	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		П	П	_F_
500	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.				Ti-
510	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.				
520	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.				را
530	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.				
540	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.				Ti-
550	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.				Ti-
560	Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				
-	Compliance				
580	Free of incidents of observed non-compliance not already identified above? If "No" describe.				
Addit	ional Control Measures				
600	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.				<u> Ti</u>

Labor		Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Burgin, Jillian		9/13/2019 / 1	.,	-		
Labor Report						
Completed:						
Report:						
Signature / Name	sm 9/26/					
I confirm the information as recorded is tr	Date rue, accurate and complet	e.	nature / Name		L	ate
	CERTIFICATION	CTATELERIN				
I (6 I It Cl II II II II	CERTIFICATION			and the state of t	A118.4852.5	
I certify under penalty of law that this docum ystem designed to assure that qualified perso	nnel properly gathered and	d evaluated the in	formation subr	nitted. Based	on my i	nquiry of the
erson or persons who manage the system, or ne best of my knowledge and belief, true, acc	those persons directly res	ponsible for gath	ering information	on, the inform	nation su	bmitted is, to
alse information, including the possibility of	fine and imprisonment for	knowing violati	ons".	denames for	suommun	ıg
Signatory must meet definition in Section B.11.A, eg. FO	OD, Ops Mgr, DESH Group Lea	der, EPC Group Lea	der)			
2.00	Stone GL	DECH - 117				
rint name and title:	June de	Degrand?	'2			
rint name and title:	Diene Ge	DESH W	7 /			

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)

Last PM: 6/26/2019

Project: Routine Facility Inspections August 2019 (P-MSGP-RI-

5393)

Reason: 2019 August Inspections

Target: 8/31/2019

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program

品 RG121.9

ATA-60-2 Warehouse

Contact: Phone:

Inap Done:

11:30 - 12:00 pm

8128119

Tasks					
#	Description	Meas.	No	N/A	Yes
Weath	ner Information				
20	Describe the weather at time of inspection and document the temperature (F°).	Suny	П		
Withir	n the Facility Boundary				
********	Is the facility free of new discharges of pollutants that have occurred since the last				
40	inspection? If "Failed" describe.				
50	If "No" has a CAR been previously initiated for this new discharge?			F	
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		- d		٦
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.				
descr	ll Inspection (identify needed maintenance and repairs, failed control measures that ne iption of corrective actions in relevant task comment)	ed replacer	nent,	or a	
90	Monitored Outfall [026] Free of Evidence of Erosion? If "No", describe.		J.		4
100	Monitored Outfall [026] Flow Dissipation Devices Operating Effectively? If "No", describe.				
110	Monitored Outfall [026] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				ا ا
120	Monitored Outfall [026] Free of any unauthorized non-stormwater discharges? If "No" describe.				
130	Monitored Outfall [075] Free of Evidence of Erosion? If "No", describe.				
140	Monitored Outfall [075] Flow Dissipation Devices Operating Effectively? If "No", describe.				
150	Monitored Outfall [075] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			<u> </u>	
160	Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No" describe.				<u> </u>
170	Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe.				<u> </u>
180	Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If "No", describe.				
190	Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				Ti-
200	Substantially Identical Outfall [027] Free of any unauthorized non-stormwater discharges? If "No" describe.				<u> </u>
210	Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.				
220	Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No", describe.				
230	Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			П	[]/
240	Substantially Identical Outfall [028] Free of any unauthorized non-stormwater discharges? If "No" describe.				<u> </u>

	ol Measures (identify needed maintenance and repairs, failed control measures that need reportion of corrective actions in relevant task comments).	placment, or a
uescii	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No"	
260	describe condition & need for Maintenance, Repair, or Replacement.	
270	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition & 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.	
300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
310	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
320	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
330	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
340	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
350	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & néed for Maintenance, Repair, or Replacement.	
360	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
370	EnviroSoxx w/ MetalLoxx [6000503200014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
380	EnviroSoxx w/ MetalLoxx [6000503200015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
	Activity exposed to stormwater (identify needed mainteance or a description of corrective ac	ctions in relevant task
comm	Material loading/unloading and storage areas: controls adequate (appropriate, effective,	
400	and operating)? If "No" describe.	
410	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	
420	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	
430	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	
440	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
450	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
460	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
470	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
480	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	
490	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
500	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If"No" describe.	
510	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	
520	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	
F00	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and	
530	operating)? If "No" describe.	
540		

	- describe.		
560	Sector P [60005-] Vehicle storage/maintenance areas: controls adequate effective, and operating)? If "No" describe.	(appropriate,	
Non-Co	mpliance		
	Free of incidents of observed non-compliance not already identified above?	? If "No"	
580	describe.		
Addition	nal Control Measures		
	Are permit requirements satisfied with existing control measure(s)? If "No"	describe	
600	additional control measures needed.		
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ahar			
abor	(And Andrew Karry) (Andrew Karry)		
Labor	Assigned W	Vork Date Reg Hrs	OT Hrs Other Hrs
Burgin, .		Tog I II o	or mo other m.
abor R	enort		
Confirm	Signature / Name Date Sign the information as recorded is true, accurate and complete.	nature / Name	Date
-			
	CERTIFICATION STATEMENT	ľ	
ertify un	der penalty of law that this document and all attachments were prepared	d under my direction or s	apervision in
rdance	with a system designed to assure that qualified personnel properly gather	ered and evaluated the inf	ormation submitte
ed on my	y inquiry of the person or persons who manage the system, or those person, the information submitted is, to the best of my knowledge and belief, to	sons directly responsible	for gathering
e are sig	enificant penalties for submitting false information, including the possible	oility of fine and imprison	ment for knowing
ations".	,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ment for mile wing
natory mu	ist meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Grou	un Leader)	
Marie Company			
t name a	and title: Russell Stone Gol WESH-1	uts	
t name a	0	915/2019	

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 Fa

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

Drap. done

MSGP Program

📤 TA-60-2 Warehouse

Contact: Phone:

7(24/19

asks					
#	Description	Meas.	No	N/A	Yes
Weatl	ner Information	1.2.11			
20	Describe the weather at time of inspection and document the temperature (F°):	P10			<u> </u>
Mithi	n the Facility Boundary				
AAICIIII	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If				
40	"Failed" describe.				
50	If "No" has a CAR been previously initiated for this new discharge?				
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.				
corre	Il Inspection (identify needed maintenance and repairs, failed control measures that need repl ctive actions in relevant task comment)	acement, or	a des	criptio	n of
90	Monitored Outfall [026] Free of Evidence of Erosion? If "No", describe.	·			
100	Monitored Outfall [026] Flow Dissipation Devices Operating Effectively? If "No", describe.				سايا
110	Monitored Outfall [026] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	- 2			
120	Monitored Outfall [026] Free of any unauthorized non-stormwater discharges? If "No" describe.				
130	Monitored Outfall [075] Free of Evidence of Erosion? If "No", describe.				
140	Monitored Outfall [075] Flow Dissipation Devices Operating Effectively? If "No", describe.				
150	Monitored Outfall [075] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If				
150	"No", describe.				
160 170 -	Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No" describe.				
170	Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe.				سن
180	Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If "No", describe.				<u> </u>
190	Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
100	Substantially Identical Outfall [027] Free of any unauthorized non-stormwater discharges? If				1,5
200	"No" describe.				G-
210	Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.				
220	Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No", describe.				
230	Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				<u> </u>
240	Substantially Identical Outfall [028] Free of any unauthorized non-stormwater discharges? If "No" describe				
Contro	ol Measures (identify needed maintenance and repairs, failed control measures that need replative actions in relevant task comments).	icment, or a	desc	ription	of
260	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				G
270	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				-
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				[]

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condition & need for Maintenance, Repair, or Replacement.		П	<u> </u>	
condition & need for Maintenance, Repair, or Replacement.				
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condition & need for Maintenance, Repair, or Replacement.			<u> </u>	-
describe condition & need for Maintenance, Repair, or Replacement.		П		
tivity exposed to stormwater (identify needed mainteance or a description of corrective action	s in relevant t	ask cor	nment).	0
Material loading/unloading and storage areas: controls adequate (appropriate, effective, and	NE Sec	100	near	Levice.
operating)? I No describe. Whenvered metal - center presact				UANAL 1568
"No" describe.			<u> </u>	(368)
operating)? If "No" describe.		<u> </u>	<u> </u>	
operating)? If "No" describe.			F	
effective, and operating)? If "No" describe.	T _u i		Ţ.	
operating)? If "No" describe.				
Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		Ţ.		
Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.				
Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			سن	
Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		<u> </u>		
Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.			النا ا	
Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.				
Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.			<u> </u>	a
Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	oth salv	مع و <u> </u>	ures	tencolin
Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.			-	LAK# 156
Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		П	F	(56
mpliance				
Free of incidents of observed non-compliance not already identified above? If "No" describe.			<u> </u>	
nal Control Measures Are permit requirements satisfied with existing control measure(s)? If "No" describe additional				
r - r - c - c - c - c - c - c - c - c -	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Uncount of the storage areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Cutdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	need for Maintenance, Repair, or Replacement. Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	need for Miaintenance, Repair, or Replacement. Filt Rap [5000503060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Earthen Berm [600050301007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [6000508010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [6000508040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Firenth Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. FirenviorSox w Metall. oxx (80005030001014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. FirenviorSox w Metall. oxx (80005030001015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. FirenviorSox w Metall. oxx (80005030001015] Control Measure is operating effectively? If "No" describe. FirenviorSox w Metall. oxx (80005030001015] Control Measure is operating effectively? If "No" describe. FirenviorSox w Metall. oxx (80005030001015] Control Measure is operating effective, and operating? If "No" describe. FirenviorSox whe Metall. oxx (80005030001015] Control Measure is operating? If "No" describe. FirenviorSox whe Metall. oxx (80005030001015] Control Measure is operat	need for Maintenance, Repair, or Replacement. IRI Rap [8000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Earthen Berm [80005030130017] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Straw Wattle [600053030013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [800050010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [800050601002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [800050901003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [8000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. EnviroSox wi Metall. Loxx [8000503200014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. EnviroSox wi Metall. Loxx [8000503200015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. EnviroSox wi Metall. Loxx [8000503200015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. EnviroSox wi Metall. Loxx [8000503200015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. EnviroSox wi Metall. Control & need for Maintenance, Repair, or Replacement. EnviroSox wi Metall. Control & need for Maintenance, Repair, or Replacement. EnviroSox wi Metall. Control & need for Maintenance, Repair, or Replacement. EnviroSox wi Metall. Control & need for Maintenance, Repair, or Replacement. EnviroSox wi Metal

Labor

Burgin, Jillian	7/17/2019 /	1	-,
Labor Report			
Completed:			
Report:			
3	<u> </u>		
-0 , -01			
Signature / Name I confirm the information as recorder	Date d is true, accurate and complete.	Signature / Name	Date
×	CERTIFICATION STATEME	NT	· 12
ystem designed to assure that qualified person or persons who manage the system he best of my knowledge and belief, tru	document and all attachments were prepared to personnel properly gathered and evaluated the m, or those persons directly responsible for ge, accurate, and complete. I am aware that the ty of fine and imprisonment for knowing vio	e information submitted. Ba athering information, the inf ere are significant penalties f	sed on my inquiry of the formation submitted is, to
Signatory must meet definition in Section B.11.A	, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group	Leader)	
Print name and title: Lussell	Stone GL DOSK'UTS		
Signature: Russell St	Date:	3/19/2019	

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-

Reason: 2019 June Inspections

6/28/2019 Target:

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program ᆦ RG121.9

A TA-60-2 Warehouse

Contact: Phone:

200p. done 6/24/19

9:30 - 10:00

Iasks					
#	Description	Meas.	No	N/A	Yes
Weat	ner Information				
20	Describe the weather at time of inspection and document the temperature (F°). 73°	Sunny	.0	1	
Withi	n the Facility Boundary	,			
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.			П	
50	If "No" has a CAR been previously initiated for this new discharge?				13
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.	-		<u> </u>	12
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		Г		
Outfa descr	Il Inspection (identify needed maintenance and repairs, failed control measures that no iption of corrective actions in relevant task comment)	eed replace	ment,	or a	
90	Monitored Outfall [026] Free of Evidence of Erosion? If "No", describe.				
100	Monitored Outfall [026] Flow Dissipation Devices Operating Effectively? If "No", describe.				
110	Monitored Outfall [026] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
120	Monitored Outfall [026] Free of any unauthorized non-stormwater discharges? If "No" describe.		7		Ti-
130	Monitored Outfall [075] Free of Evidence of Erosion? If "No", describe.			[]	
140	Monitored Outfall [075] Flow Dissipation Devices Operating Effectively? If "No", describe.	7			
150	Monitored Outfall [075] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				<u></u>
160	Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No" describe.			П	
170	Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe.				
180	Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If "No", describe.			73:	<u> </u>
190	Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				[V
200	Substantially Identical Outfall [027] Free of any unauthorized non-stormwater discharges? If "No" describe.				F_
210	Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.				
220	Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No", describe.		П	П	<u> </u>
230	Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<u>. </u>	П	[~
240	Substantially Identical Outfall [028] Free of any unauthorized non-stormwater discharges? If "No" describe.			0	[]

260	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			E /
270	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Til.		[]
290	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Total Control	
310	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>
320	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
330	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	- Di		
340	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	- 4		
350	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		2	
360_	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			_ <u></u>
370	EnviroSoxx w/ MetalLoxx [6000503200014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u></u>	
380	EnviroSoxx w/ MetalLoxx [6000503200015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	[~
Area/	Activity exposed to stormwater (identify needed mainteance or a description of corrective a lent). Material loading/unloading and storage areas: controls adequate (appropriate, effective,	ctions in rel	evant	task
400	and operating)? If "No" describe.		П	<u></u>
410	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.			
420				<u></u>
430	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		<u> </u>	<u></u>
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450 460 470 480 490	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		[~ [~	
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560	Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		
Non-C	Compliance		
	Free of incidents of observed non-compliance not already identified above? If "No"		
580	describe.		
Additio	onal Control Measures		
000	Are permit requirements satisfied with existing control measure(s)? If "No" describe		
600	additional control measures needed.		
abor			
Labor	Work Date Reg H	rs OT Hrs	Other Hi
Report			
SBr	Signature / Name Date Signature / Name The information as recorded is true, accurate and complete.	D	ate
	Signature / Name Date Signature / Name	D	ate
confirmentify unordance ed on mrmatione are si	Signature / Name Date Signature / Name The information as recorded is true, accurate and complete. CERTIFICATION STATEMENT Inder penalty of law that this document and all attachments were prepared under my direction of with a system designed to assure that qualified personnel properly gathered and evaluated the my inquiry of the person or persons who manage the system, or those persons directly responsilent, the information submitted is, to the best of my knowledge and belief, true, accurate, and contention in the information submitted is to the best of my knowledge and belief, true, accurate, and contention in the information submitting false information, including the possibility of fine and imprise	or supervision information ple for gather	in submitte ing ware tha
confirmentify upordance ed on mation e are signations.	Signature / Name Date Signature / Name The information as recorded is true, accurate and complete. CERTIFICATION STATEMENT Inder penalty of law that this document and all attachments were prepared under my direction of with a system designed to assure that qualified personnel properly gathered and evaluated the my inquiry of the person or persons who manage the system, or those persons directly responsilent, the information submitted is, to the best of my knowledge and belief, true, accurate, and contention in the information submitted is to the best of my knowledge and belief, true, accurate, and contention in the information submitting false information, including the possibility of fine and imprise	or supervision information ple for gather	in submitte ing ware tha

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

品 RG121.9

📤 TA-60-2 Warehouse

Contact:

Phone:

Drup. done 5/29/19

1:00 - 1:30 PM

asks					
#	Description	Meas.	No	N/A	Yes
Weath	er Information				
20	Describe the weather at time of inspection and document the temperature (F°).	Plc	٦ [<u></u>
Withir	the Facility Boundary				
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		П	П	
50	If "No" has a CAR been previously initiated for this new discharge?			[/	
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		П	i)	
	I Inspection (identify needed maintenance and repairs, failed control measures that ne ption of corrective actions in relevant task comment)	ed replac	ement,	or a	
90	Monitored Outfall [026] Free of Evidence of Erosion? If "No", describe.		100		
100	Monitored Outfall [026] Flow Dissipation Devices Operating Effectively? If "No", describe.				
110	Monitored Outfall [026] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
120	Monitored Outfall [026] Free of any unauthorized non-stormwater discharges? If "No" describe.				
130	Monitored Outfall [075] Free of Evidence of Erosion? If "No", describe.				
140	Monitored Outfall [075] Flow Dissipation Devices Operating Effectively? If "No", describe.				
150	Monitored Outfall [075] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				_T_
160	Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No" describe.		Tab.	1 5	
170	Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe.				
180	Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If "No", describe.				
190	Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
200	Substantially Identical Outfall [027] Free of any unauthorized non-stormwater discharges? If "No" describe.		ali:		<u></u>
210	Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.				
220	Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No", describe.				<u></u>
230	Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				<u></u>
240	Substantially Identical Outfall [028] Free of any unauthorized non-stormwater discharges? If "No" describe.				<u>ru</u>

260	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			_F
270	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	[-
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		TIE.	
290	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	. (0)	. Ti	[_
300	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
310	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П	Б	[J
320	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	<u></u>
30	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	ź	Г	ΓĿ
40	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	[-
50	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	- 34 19	D	T.
60	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Б		T.
70	EnviroSoxx w/ MetalLoxx [6000503200014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Б.		F
80	EnviroSoxx w/ MetalLoxx [6000503200015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			T.
00	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and		i	<u>_</u>
00	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and			
10	operating)? If "No" describe.			
20	Product/chemical storage areas (raw material): controls adequate (appropriate, effective,			<u></u>
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40 50 60 70 80 90	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If			
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130 140 150 160 170 188 190 110 120 130	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and			

	describe.					
560	Sector P [60005-] Vehicle storage/maintenance areas effective, and operating)? If "No" describe.	: controls adeq	uate (appropriate,			
Non-C	ompliance					
580	Free of incidents of observed non-compliance not alreadescribe.	ady identified a	bove? If "No"	<u></u>		
Additio	onal Control Measures					
	Are permit requirements satisfied with existing control	measure(s)? If	"No" describe			
600	additional control measures needed.					
abor-						
Labor		Assigned	Work Date	Reg Hrs	OT Hrs	Other H
Burgin,	Jillian	5/8/2019 / 1				
abor I	Report					
	Signature / Name Date m the information as recorded is true, accurate and o		Signature / Name			Date
	CERTIFICATI	ON STATEM	ENT			
ordance ed on normation re are si	ander penalty of law that this document and all attachmed with a system designed to assure that qualified person up inquiry of the person or persons who manage the sum, the information submitted is, to the best of my knowledge.	onnel properly ystem, or those wledge and bel	gathered and evalue e persons directly lief, true, accurate	uated the in responsible , and compl	formation for gathe ete. I am	n submitt ering aware th
ations	gnificant penalties for submitting false information, in	neidding die po	ossionity of fine a	na imprison		
ations" natory m			•	nd imprison		
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Work Order MSGP-RI-63543

MSGP Routine Inspection Printed 4/9/2019 - 2:32 PM

Maintenance Det	ai	ls
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Requested: 4/9/2019 2:07:04 PM

Target:

4/30/2019

MSGP Program

Procedure: MSGP Routine Facility Inspection (EPC-CP-FormPriority/Type: Normal / Inspection **Department:** Utilities and Infrastructure 品 RG121.9 TA-60-2 Warehouse

1020.2)

2/26/2019

Contact: Phone:

Last PM: Project:

Routine Facility Inspections

April 2019 (P-MSGP-RI-

Reason: MSGP Routine Facility Inspection

5361)

Inop done:

4123119

11:30 - 12:00

Fasks					
#	Description	Meas.	No	N/A	Yes
Weatl	ner Information				Ę.
20	Describe the weather at time of inspection and document the temperature (F°). 43 ° C	laudy			F
Withi	1 the Facility Boundary	Rai	my		
	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.				F
50	If "No" has a CAR been previously initiated for this new discharge?			J -⁄	.6
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				F
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		Í		
	Il Inspection (identify needed maintenance and repairs, failed control measures that neiption of corrective actions in relevant task comment)	eed replace	ement,		_
9U	Monitored Outfall [026] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [026] Flow Dissipation Devices Operating Effectively? If "No",			- 1	
100	describe.				F
110	Monitored Outfall [026] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	,			
120	Monitored Outfall [026] Free of any unauthorized non-stormwater discharges? If "No" describe.			12	
130	Monitored Outfall [075] Free of Evidence of Erosion? If "No", describe.	8	J		ب
140	Monitored Outfall [075] Flow Dissipation Devices Operating Effectively? If "No", describe.			<u> </u>	· [
150	Monitored Outfall [075] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			Б	F.
160	Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No" describe.				다
170	Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe.			A	J
180	Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If "No", describe.				
190 •	Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
200	Substantially Identical Outfall [027] Free of any unauthorized non-stormwater discharges? If "No" describe.				
210	Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.		-8	ρŪ	
220	Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No", describe.				<u> </u>
230	Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
240	Substantially Identical Outfall [028] Free of any unauthorized non-stormwater		_	_	-

30	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	-1		[-/	
70	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г		
80	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
90	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	- E	F		
00	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
10	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	D	Б		
20	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
30	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
40	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б		
50	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
50	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			7	
70	EnviroSoxx w/ MetalLoxx [6000503200009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	المالة	- W	patte	به
80	EnviroSoxx w/ MetalLoxx [6000503200010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	سس	سمان آ	ا	مه
	Activity exposed to stormwater (identify needed mainteance or a description of corrective act ent).		evant 1	ask	, in
00	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			<u></u>	
10	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	П		<u>_</u> [_	
20	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.			<u></u>	
30	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	4		<u></u>	
10	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	4 3		_	
50	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			<u>_</u> [-/	
30	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		F		
70	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				
80	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. Waste handling and disposal areas: controls adequate (appropriate, effective, and				
90	operating)? If "No" describe. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If	M		<u></u>	1
00	"No" describe.	, i		[<u>*</u>	
10	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		Ţ		
	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	Tak.	4	<u></u>	
20_	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		16	_ 「	
					- 1
30 40 50	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No"			<u> </u>	

	_describe.					
560	Sector P [60005-] Vehicle storage/maintenanc effective, and operating)? If "No" describe.	e areas: controls adequ	uate (appropriate,			
Non-Co	ompliance -					
580	Free of incidents of observed non-compliance redescribe.	not already identified al	oove? If "No"			
Additio	onal Control Measures					
600	Are permit requirements satisfied with existing additional control measures needed.	control measure(s)? If	'No" describe			
.abor-						
Labor Burgin,	Jillian	Assigned 4/1/2019 / 1	Work Date	Reg Hrs	OT Hrs (Other Hr
					-	
				₹		
Confirm	Signature / Name Date n the information as recorded is true, accurate		Signature / Name	Ÿ	Da	nte
Confirm	Signature / Name Date n the information as recorded is true, accurate			ÿ	Da	nte
ertify ur ordance ed on m ormation re are sig	Signature / Name Date In the information as recorded is true, accurate CERTIF Inder penalty of law that this document and all with a system designed to assure that qualifie into inquiry of the person or persons who manage in, the information submitted is, to the best of inginificant penalties for submitting false information.	e and complete. TCATION STATEM attachments were pred personnel properly gethe system, or those by knowledge and bel	ENT pared under my degathered and evaluate persons directly ief, true, accurate	lirection or si uated the int responsible	upervision formation s for gatheri ete. I am ay	in submitte ng ware tha
ertify ur ordance sed on m ormation re are sig lations".	Signature / Name Date In the information as recorded is true, accurate CERTIF Inder penalty of law that this document and all with a system designed to assure that qualifie into inquiry of the person or persons who manage in, the information submitted is, to the best of inginificant penalties for submitting false information.	e and complete. CICATION STATEM attachments were pred personnel properly gethe system, or those by knowledge and belation, including the position.	ENT pared under my degathered and evaluate persons directly ief, true, accurate possibility of fine a	lirection or si uated the int responsible	upervision formation s for gatheri ete. I am ay	in submitte ng ware tha
ertify ur ordance sed on m ormation re are sig lations".	Signature / Name Date In the information as recorded is true, accurate CERTIF Inder penalty of law that this document and all with a system designed to assure that qualifie may inquiry of the person or persons who manage may the information submitted is, to the best of magnificant penalties for submitting false information.	e and complete. CICATION STATEM attachments were predicted personnel properly get the system, or those my knowledge and belation, including the posterior of	ENT pared under my degathered and evalue persons directly ief, true, accurate assibility of fine at a Group Leader)	lirection or si uated the int responsible	upervision formation s for gatheri ete. I am ay	in submitte ng ware tha

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

Routine Facility Inspections Project:

March 2019 (P-MSGP-RI-

5355)

Reason: 2019 March Inspections

3/31/2019 Target:

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program

品 RG121.9

TA-60-2 Warehouse

Contact:

Phone:

3/26/19 11:30 - 11:55 AM

Tasks					- 14-14
#	Description	Meas.	No	N/A	Yes
Weat	her Information				
20	Describe the weather at time of inspection and document the temperature (F°). 57°	clean			
Withi	n the Facility Boundary	Su	nn	3	
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		Г	П	F~
50	If "No" has a CAR been previously initiated for this new discharge?			<u></u>	_ Ta
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				7
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.				
	Il Inspection (identify needed maintenance and repairs, failed control measures that nee	ed replace	ement,	or a	
90	Monitored Outfall [026] Free of Evidence of Erosion? If "No", describe.				
100	Monitored Outfall [026] Flow Dissipation Devices Operating Effectively? If "No", describe. Replace Methallox wattles/Clean-out describe.	· nage	2	200 T	. A
110	Monitored Outfall [026] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				[·
120	Monitored Outfall [026] Free of any unauthorized non-stormwater discharges? If "No" describe.		П	Г	
130	Monitored Outfall [075] Free of Evidence of Erosion? If "No", describe.				_
140	Monitored Outfall [075] Flow Dissipation Devices Operating Effectively? If "No", describe.			[·	1 🖂
150	Monitored Outfall [075] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				[·
160	Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No" describe.				
170	Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe.				F/
180	Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If "No", describe. Replace Middler watte / cenous trash	CAR	-#E	र्प् न्	7
190	Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
200	Substantially Identical Outfall [027] Free of any unauthorized non-stormwater discharges? If "No" describe.		П		
210	Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.			7.	
220	Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If "No", describe.	- 6			
230	Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
240	Substantially Identical Outfall [028] Free of any unauthorized non-stormwater			_	

	rol measures (identity needed maintenance and repairs, failed control measures that need repla ription of corrective actions in relevant task comments).	cment, c	or a	
	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No"			
260	describe condition & need for Maintenance, Repair, or Replacement.		Sec.	
270	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u></u>	
280	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П	Ţ,	~
290	Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П		
300		RH	14:	79
310	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No"		-13-	
320	describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No"			
330	describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No"		i	
340	describe condition & need for Maintenance, Repair, or Replacement.			
350	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	_E_	Ų.	<u>_</u>
360	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			ႊ.
370	EnviroSoxx w/ MetalLoxx [6000503200009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	w;.=	ter	CAR
380	EnviroSoxx w/ MetalLoxx [6000503200010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	s+	ے زیر	Fere
Area/A	Activity exposed to stormwater (identify needed mainteance or a description of corrective action nent). Material loading/unloading and storage areas: controls adequate (appropriate, effective,	ns in rel	evant t	ask
400	and operating)? If "No" describe. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and			<u></u>
410	operating)? If "No" describe.			<u></u>
420	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	П	2	<u></u>
430	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.			<u> </u>
440	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			F-/
450	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			
460	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	[D]	[T/	[-/jb
470	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Б.	E-	Г
480	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		II.	· [~
490	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		ار 	<i>•</i> _ [-∕
500	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.			[-
510	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	П	Б	
520	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	П	<u> </u>	
530	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.			<u> </u>
540	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.			<u></u> -
550	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No"			

	describe.						
560		60005-] Vehicle storand operating)? If "No		areas: controls adeq	uate (appropriate,		
Non-Co	ompliance						
580	-	dents of observed n	on-compliance n	ot already identified a	bove? If "No"		
A dditio	nal Control	Massuras					
Additio			ed with existing c	ontrol measure(s)? If	"No" describe		
600		ontrol measures ne		` '	110 40001100		
abor							
apor							
Labor				Assigned	Work Date	Reg Hrs	OT Hrs Other Hr
Burgin,	Jillian			2/26/2019 / 1	_		
Report:	u-zu	OEP, CISEC		1 11:55 AM	Signature / Name		D-4-
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	Signature	Name	Date is true, accurate				Date
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Work Order MCCD DI 62460

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Snow CON

	amos National L	ab - ALDESHQSS	MSGP Routin Printed 2/12/201	e Inspect
-	ed: 2/12/2019 9:00:41 AM e: MSGP Routine Facility Inspection (EPC-CP-Form- 1020.2)	Target: 2/28/2019 Priority/Type: Normal / Inspection Department: Utilities and Infrastructure	ৣ MSGP Program 급급 RG121.9 ♣ TA-60-2 Warehouse	
Last PM: Project:	12/19/2018 Routine Facility Inspections Feb. 2019 (P-MSGP-RI- 5354)	Insp. done: 2/26/19	Contact: Phone:	
Reason:	2019 February Inspections		25 12 12 2 2 4	
			30-12:00 PM	
asks —		11-11-11-11-11-11-11-11-11-11-11-11-11-		
#	Description		Meas. No N/A	Yes
Weather	Information			
20	Describe the weather at time of i	nspection and document the temperature (F). 43° Clear / [[
Within th	e Facility Boundary		Sunny	
Ī		ges of pollutants that have occurred since the	e last	
50		usly initiated for this new discharge?		Г
60	Is the facility free of discharge of	pollutants at the time of inspection? If "No" of	lescribe.	
	s the facility free of evidence of, system. If "No" describe.	or the potential for, pollutants entering the dr	ainage	
descripti	on of corrective actions in rele	ntenance and repairs, failed control meas vant task comment) Evidence of Erosion? If "No", describe.	15	
i		ssipation Devices Operating Effectively? If "N	No",	
		Evidence of Pollutants in Discharges and/or		
i		any unauthorized non-stormwater discharge		Г
130	Monitored Outfall [075] Free of	Evidence of Erosion? If "No", describe.	snow covered I I	
		ssipation Devices Operating Effectively? If "N		
	Monitored Outfall [075] Free of Nater? If "No", describe.	Evidence of Pollutants in Discharges and/or	Receiving	Г

Monitored Outfall [075] Free of any unauthorized non-stormwater discharges? If "No"

Substantially Identical Outfall [027] Flow Dissipation Devices Operating Effectively? If

Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges

Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe.

Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges

Substantially Identical Outfall [028] Free of any unauthorized non-stormwater

Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If

Substantially Identical Outfall [027] Free of any unauthorized non-stormwater

Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", describe. 5000

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210

220

230

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describe.

"No", describe.

"No", describe.

and/or Receiving Water? If "No", describe.

and/or Receiving Water? If "No", describe.

discharges? If "No" describe.

discharges? If "No" describe.

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments). Gravel Bags [6000503100008] Control Measure is operating effectively? If "No" 260 describe condition & need for Maintenance, Repair, or Replacement. cov. Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating 270 effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement, Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe 280 condition & need for Maintenance, Repair, or Replacement. SNOW Rip Rap [6000504060004] Control Measure is operating effectively? If "No" describe 290 condition & need for Maintenance, Repair, or Replacement. Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe 300 condition & need for Maintenance, Repair, or Replacement. Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" 310 describe condition & need for Maintenance, Repair, or Replacement. Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" 320 describe condition & need for Maintenance, Repair, or Replacement. Snow cou Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" 330 describe condition & need for Maintenance, Repair, or Replacement. Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" 340 describe condition & need for Maintenance, Repair, or Replacement, Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" 350 describe condition & need for Maintenance, Repair, or Replacement. Trench Drain [6000509040011] Control Measure is operating effectively? If "No" 360 describe condition & need for Maintenance, Repair, or Replacement, EnviroSoxx w/ MetalLoxx [6000503200009] Control Measure is operating effectively? If 370 "No" describe condition & need for Maintenance, Repair, or Replacement. Snow COV EnviroSoxx w/ MetalLoxx [6000503200010] Control Measure is operating effectively? If 380 "No" describe condition & need for Maintenance, Repair, or Replacement. SNOW Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment). Material loading/unloading and storage areas: controls adequate (appropriate, effective, 400 and operating)? If "No" describe. Transfer areas for substances in bulk; controls adequate (appropriate, effective, and operating)? If "No" describe. 410 Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. 420 Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. 430 Industrial processing and finished product storage areas: controls adequate (appropriate, 440 effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe, 450 Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. 460 Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, 470 and operating)? If "No" describe. 480 Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. Waste handling and disposal areas: controls adequate (appropriate, effective, and 490 operating)? If "No" describe. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. 500 Locations and sources of run-on to the site: controls adequate (appropriate, effective, 510 and operating)? If "No" describe. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and 520 operating)? If "No" describe. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and 530 operating)? If "No" describe. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. 540 550 Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No"

	describe.					
560	Sector P [60005-] Vehicle storage/maintenance ar effective, and operating)? If "No" describe.	eas: controls adequ	ate (appropriate,			
Non-Co	ompliance					
	Free of incidents of observed non-compliance not a	already identified ab	ove? If "No"			
580	describe.					
Additio	onal Control Measures					
	Are permit requirements satisfied with existing cont	rol measure(s)? If "	No" describe			
600	additional control measures needed.					T. T
_abor						
Labor		Assigned	Work Date	Dog Uso	OT Use	Other Hi
Burgin,	Jillian	2/11/2019 / 1				
_abor F	Renort					
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Comple	eted:					
_	 					
Report						
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	Signature / Name Date n the information as recorded is true, accurate an		Signature / Name		,-	Date
i comm	n the information as recorded is true, accurate an	ia complete.				122
	CERTIFICAT	TION STATEME	NT			
certify	under penalty of law that this document and all at	tachments were pro	epared under my	direction or	supervis	sion in
ccordan	ce with a system designed to assure that qualified	personnel properly	gathered and ev	aluated the	informat	ion
ubmitte	d. Based on my inquiry of the person or persons w	ho manage the sys	tem, or those per	sons directly	y respon	sible for
amering	information, the information submitted is, to the	best of my knowle	dge and belief, tr	ue, accurate	, and co	mplete. I
m aware	that here are significant penalties for submitting ment for knowing violations".	iaise information,	including the pos	sibility of fi	ne and	
iipi isoii	incht for knowing violations.					
natory m	ust meet definition in Section B.11.A, eg. FOD, Ops Mgr, DES	H Group Leader, EPC	Group Leader)			
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int nam	the soull stand	GI NEC	1 /			
	and title: 1000 see Store	0°C "CC37"	4-6865			
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Los Alamos National Lab - ADESH

Maintenance Details

Work Order MSGP-RI-63457

MSGP Routine Inspection Printed 1/15/2019 - 2:22 PM

Requested:		Target:	1/31/2019	MSGP Progran	1		
Procedure:	MSGP Routine Facility Inspection (EPC-CP-Form-		Normal / Inspection Utilities and Infrastructure	品 RG121.9 La TA-60-2 Wareh			
	1020.1)	Department.	Ounces and initiastructure	IM-60-2 Waren	ouse		
Last PM:	11/30/2018		v 1 .				
Project:	Routine Facility Inspections Jan. 2019 (P-MSGP-RI-	Ins	p. 1/31/19 0:00 - 10:30 A	Contact: Phone:			
	5352)	L	0:00 - 10:30 A	W 1			
Reason: M	ISGP Routine Facility Inspection	on					
asks							
# De	escription	771		Meas.	No	N/A	Yes
Weather In	formation						
	escribe the weather at time of in	nspection and do	cument the temperature (F°)	. 310° clear	1 -		
	-	iopootion and do	odinone tho temperature (r	Sur	my		
	Facility Boundary						
	the facility free of new discharg spection? If "Failed" describe.	jes of pollutants t	hat have occurred since the	last	_	_	James .
	·	isk initiated for th	nio novy disobarrac				
	If "No" has a CAR been previou	*****					
	the facility free of discharge of	Market and the second second second	A CONTRACTOR OF THE PROPERTY O				
	the facility free of evidence of,	or the potential to	or, pollutants entering the dra	ainage		_	F
ro sys	stem. If "No" describe.				-		
Outfall Insp	pection (identify needed mair			ures that need replac	ement,	or a	
Outfall Insp description	pection (identify needed mair n of corrective actions in rele	vant task comm	ent)		ement,	or a	
Outfall Insp description	pection (identify needed mair	vant task comm	ent)	now covered	ement,	or a	
Outfall Insp description 90 Mo	pection (identify needed mair n of corrective actions in rele	vant task comm Evidence of Eros	ient) ion? If "No", describe.	now covered	ement,	or a	
Outfall Insp description 90 Mo 100 de	pection (identify needed main n of corrective actions in rele onitored Outfall [026] Free of onitored Outfall [026] Flow Dis	vant task comm Evidence of Eros ssipation Devices	ion? If "No", describe. 5 Soperating Effectively? If "N	now covered	ement,	F	
Outfall Insp description 90 Mo 100 de: Mo 110 Wa	pection (identify needed main n of corrective actions in rele onitored Outfall [026] Free of onitored Outfall [026] Flow Dis scribe. onitored Outfall [026] Free of	vant task comm Evidence of Eros ssipation Devices Evidence of Pollu	tent) sion? If "No", describe. Operating Effectively? If "No", and single side side side side side side side sid	now covered	ement,	F	
Outfall Insp description 90 Mc 100 des 110 Wa 120 Mc	pection (identify needed main n of corrective actions in rele- onitored Outfall [026] Free of onitored Outfall [026] Flow Dis- scribe. onitored Outfall [026] Free of ater? If "No", describe.	vant task comm Evidence of Eros ssipation Devices Evidence of Pollu Evidence of Eros	ion? If "No", describe. Operating Effectively? If "Nations in Discharges and/or Figure 15".	now covered lo", ,,,	ement,	<u>マ</u> マ	<u></u>
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	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.	sic	Г		
260	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc		D	3
270	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Slo	п		П
280	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	SIC	Г	P	П
290	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	slc	Г	F	
300	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	SIC	П	F	П
310	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	SIC			
320	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		T's	13/1	9
330	EnviroSoxx w/ MetalLoxx [6000503200009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	5k	П	F	П
340	EnviroSoxx w/ MetalLoxx [6000503200010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Slc	П	P	П
	Activity exposed to stormwater (identify needed mainteance or a description of correct	ive actions	in rele	evant ta	ask
comm 360	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	er of	ya	rd.	CAR
370	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		Б.		
380	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.			——— ——————————————————————————————————	F_
390	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.			Б	[V
400	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				F/
410	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				F
120	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		Г	I	П
430	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		Г		
140	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		Ė		1
450	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<u>Q</u>			[~
160	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.				[]
170	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.			——————————————————————————————————————	-
180	Non-stormwater/illicit connections: controls adequate (appropriate, effective, and operating)? If "No" describe.		г	[~	
190	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		Б.		<u> </u>
500	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		——————————————————————————————————————		TV
510	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		<u> </u>		IV
520	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.			—— <u>.</u> —	TV
530	Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		-12	F.	[~
			10.	-	-
Non-Co 550	ompliance Free of incidents of observed non-compliance not already identified above? If "No"				F

-	describe.
Additio	onal Control Measures
570	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.
Labor	
Labor Burgin,	Jillian Assigned Work Date Reg Hrs OT Hrs Other Hrs
Labor F	Report
Comple	eted:
Report	
-	
WO ID:	nsGP- R1- 63457 Page 3 of 3
Name/Z#:	Jillian Burgin (211081
Signature (lea	ad inspector): DEP CISEC Date and Time: 13119
"I confirm the	e information as recorded is true, accurate and complete."
	CERTIFICATION STATEMENT
designed to a manage the s rue, accurate	der penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, e, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and at for knowing violations".
Signatory n	nust meet definition in Section B.11.A, eg., FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)
Print name ar	nd title: Revosell Stone GL DESH-UDS
Signature:	Russell Stone Gol DESH-UDS Date: 2/28/2019

Los Alamos National Lab - ADESH

Work Order MSGP-RI-63448

Mainte i	nance Details		F			ne Inspectio 8 - 4:43 PN
Proced	sted: 12/17/2018 4:33:30 PM ure: MSGP Routine Facility Inspection (EPC-CP-Form- 1020.1)	Target: 12/31/2018 Priority/Type: Normal / Inspection Department: Utilities and Infrastructure	∰ MSGP Progran 品 RG121.9 ♠ TA-60-2 Wareh			
Last PN Project:		Insp. done	Contact: Phone:			
Reason	2018 December Inspections	2:45-3:	30 pm			
asks						
#	Description		Meas.	No	N/A	Yes
Weathe	er Information	nspection and document the temperature (F°)		Livol	1	
20	Describe the weather at time of in	spection and document the temperature (F°)	.46 Fair W		П	1
40	inspection? If "Failed" describe.	es of pollutants that have occurred since the	last			
50 60	**	sly initiated for this new discharge? pollutants at the time of inspection? If "No" de		- 1		
70		or the potential for, pollutants entering the dra	-			
Outfall descrip	Inspection (identify needed main ption of corrective actions in rele	ntenance and repairs, failed control measu vant task comment)	res that need replac	ement,	or a	
90		Evidence of Erosion? If "No", describe.				
100	describe.	ssipation Devices Operating Effectively? If "N				
110	Water? If "No", describe.	Evidence of Pollutants in Discharges and/or F	Receiving			
120	Monitored Outfall [075] Free of	Evidence of Erosion? If "No", describe.				1
130	describe.	sipation Devices Operating Effectively? If "No	<u> </u>			
140	Monitored Outfall [075] Free of Water? If "No", describe.	Evidence of Pollutants in Discharges and/or F	Receiving			W
150	Substantially Identical Outfall [027] Free of Evidence of Erosion? If "No", dea	scribe.			
160	Substantially Identical Outfall [9 "No", describe.	027] Flow Dissipation Devices Operating Effe	ctively? If			

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

Substantially Identical Outfall [027] Free of Evidence of Pollutants in Discharges

Substantially Identical Outfall [028] Free of Evidence of Erosion? If "No", describe. Substantially Identical Outfall [028] Flow Dissipation Devices Operating Effectively? If

Substantially Identical Outfall [028] Free of Evidence of Pollutants in Discharges

and/or Receiving Water? If "No", describe.

and/or Receiving Water? If "No", describe.

170

180

190

"No", describe.

	Gravel Bags [6000503100008] Control Measure is operating effectively? If "No"		
220	describe condition & need for Maintenance, Repair, or Replacement.		TV
	Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating		
230	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	144	-
240	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe		1

	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.	
260	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
270	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
80	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
90	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
300	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
10	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
20	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
330	EnviroSoxx w/ MetalLoxx [6000503200009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
340	EnviroSoxx w/ MetalLoxx [6000503200010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
Area/A	Activity exposed to stormwater (identify needed mainteance or a description of corrective ac ent).	tions in relevant task
360	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
370	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	
380	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	
390	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	
400	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
410	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
420	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
430	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
440	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	
450	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
460	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	
470	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	
480	Non-stormwater/illicit connections: controls adequate (appropriate, effective, and operating)? If "No" describe.	
490	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	
500	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	
510	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	
520	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	
530	Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
Non-0	Compliance Free of incidents of observed non-compliance not already identified above? If "No"	

describe.	41 - 1			
Additional Control Measures			_ a	
Are permit requirements satisfied	d with existing control measure(s)? If "N	o" describe		
570 additional control measures nee				
Labor				
Labor	Assigned	Work Date	Rea Hrs OT	Hrs Other Hrs
Burgin, Jillian	12/17/2018 / 1			
Wheeler, Holly	12/17/2018 / 1			-
		-		
Labor Report				
Labor Report				
Completed:				
Report:				ő
*				
0 01 3445				
WOID: MS6P-R1-63448	Page 2 of 5			
Name/Z#BUSIO	lawasi for Hall	4 Whee	lec/ 1180	432
Name/2#	1-11001) ••	1110	, –
	1 0			
Signature (lead inspector):	CISEC DET Date and Ti	me: 12 19	1/18	
"I confirm the information as recorded is true, accurate			3:3	o Pmo
The second secon	and complete.			
	9			8
	CERTIFICATION STATEMENT	Γ -		
"I certify under penalty of law that this document a	and all attachments were prepared under my	direction or suno	wision in accordance	a with a avatam
designed to assure that qualified personnel properly	v gathered and evaluated the information su	hmitted Based or	rvision in accordanc	e wiin a sysiem erson or persons who
manage the system, or those persons directly respo	nsible for gathering information, the inform	ation submitted is	s, to the best of my k	nowledge and belief
true, accurate, and complete. I am aware that there				
imprisonment for knowing violations".				
(Signatory must meet definition in Section B.11.	A. eg. FOD Ons Mgr DESH Group Lea	der EPC Groun	Leader)	
(B)	, -g., - oz, oponieg, zenik Group Lie	ou, Er e dioup	Loudel)	
0 00	_			4
Print name and title: Kussell Hone	L GL DETHILDS	_		
Print name and title: Russell Hove				
P note	1/2			
Signature:	Date; ////20/7	-2		

Los Alamos National Lab - ADESH

220

230

Work Order MSGP-RI-63348

MSGP Routine Inspection Printed 11/26/2018 - 5:09 PM

-	d: 10/29/2018 10:35:42 AM e: MSGP Routine Facility Inspection (EPC-CP-Form- 1020.1)	Target: 11/30/2018 Priority/Type: Normal / Inspection Department: Utilities and Infrastructure	☑ MSGP Program 品 RG121.9 ♣ TA-60-2 Wareho	use
Last PM:	9/27/2018	(4)		
Project:	Routine Facility Inspections Nov. 2018 (P-MSGP-RI- 5346)	Insp. done 11/30/18 10:00-10:30 A	Contact: Phone:	
D	,	11/30/18		
	2018 November Inspections	00 - 10:30 A	\mathcal{M}	
Special In	structions: NMR053195	10:00		
asks				
# [Description		Meas.	No N/A Yes
Weather	Information		1.5	
20 [Describe the weather at time of it	nspection and document the temperature (F°).	. 41 Cloudy	
	e Facility Boundary		J	
= [•	ges of pollutants that have occurred since the	last	
40 i	nspection? If "Failed" describe.			
50		usly initiated for this new discharge?		
		pollutants at the time of inspection? If "No" de		
	s the facility free of evidence of, system. If "No" describe.	or the potential for, pollutants entering the dra	inage	
description	on of corrective actions in rele	ntenance and repairs, failed control measu vant task comment) Evidence of Erosion? If "No", describe.	res that need replace	ment, or a
100 0	lescribe.	ssipation Devices Operating Effectively? If "No	·	
	Monitored Outfall [026] Free of Vater? If "No", describe.	Evidence of Pollutants in Discharges and/or R	Receiving	
		Evidence of Erosion? If "No", describe.		
130 0	lescribe.	ssipation Devices Operating Effectively? If "No		
140 V	Vater? If "No", describe.	Evidence of Pollutants in Discharges and/or R		
		027] Free of Evidence of Erosion? If "No", des		يا
160"	No", describe.	027] Flow Dissipation Devices Operating Effe		
<u>170</u> a	nd/or Receiving Water? If "No",			
		028] Free of Evidence of Erosion? If "No", des		
190 "	No", describe.	028] Flow Dissipation Devices Operating Effe	<u> </u>	
	Substantially Identical Outfall [ind/or Receiving Water? If "No",	028] Free of Evidence of Pollutants in Dischar describe.	ges	
	leasures (identify needed mair	ntenance and repairs, failed control measur	res that need replacm	ent, or a
·	Gravel Bags [6000503100008] (Control Measure is operating effectively? If "No intenance, Repair, or Replacement.)" <u> </u>	

Concrete/Asphalt Channel/Swale [6000504020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.

240	Eco-Block [6000503110006] Control Measure is operating effectively? If "No" describe 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.				
260	Rip Rap [6000504060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
270	Earthen Berm [6000503010007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
280	Straw Wattle [6000503060013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	_G		<u>_</u>	
290	Rock Check Dam [6000506010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
300	Rock Check Dam [6000506010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	_Б		<u> </u>	
310	Rock Check Dam [6000506010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<u> </u>		Ţ.	
320	Trench Drain [6000509040011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u>r</u>	
330	EnviroSoxx w/ MetalLoxx [6000503200009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			Ţ/	
340	EnviroSoxx w/ MetalLoxx [6000503200010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u> </u>	
	Activity exposed to stormwater (identify needed mainteance or a description of corrective actions	s in re	levant	task	
comm 360	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Б	3	F/	
370	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		To.		
380	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.				
390	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.				
400	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				
410	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		П		
420	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		[
430	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	П	ر ا		
440	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.			F	
450	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	П	П		
460	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	П			
470	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.			F /	
480	Non-stormwater/illicit connections: controls adequate (appropriate, effective, and operating)? If "No" describe.	10			
490	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.				
500	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Л	[~ n]	encel
510	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	HIS) Si	Test?	one &
520	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	П			×
530	Sector P [60005-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		116		14
					all.

550	Free of incidents of observed non-compliance not already identified above? If "No"
	describe.
Additio	onal Control Measures
570	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.
-	
Labor	
Labor Burgin,	Assigned Work Date Reg Hrs OT Hrs Other Hrs Jillian 11/1/2018 / 1
- Burgini,	11/1/2010 / I
Labor	Report
Compl	eted:
Report	:
0	
8.	
VO ID:	Page of
ame/Z#:	MSGP-RI-63348 Julian Bursin/211081
ignature (le	ead inspector): Date and Time: 11/30/18
l confirm the	e information as recorded is true, accurate and complete."
	CERTIFICATION STATEMENT
esigned to anage the ue, accurat	der penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, e, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and not for knowing violations".
Signatory 1	must meet definition in Section B.11.A, eg., FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)
int name a	and title: Kussell Stone Col DETH-UBS
ignature:	Rend Stes Date: 12/14/2018

ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS



Environmental Protection & Compliance Division Compliance Programs Group

To: Jillian Burgin, DESH-UIS, B274

Thru: Terrill Lemke, EPC-CP, K490

From: Holly Wheeler, EPC-CP, K490

Phone: 505-667-1312 *Symbol:* EPC-DO: 19-207

Date:

JUL 0 3 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.



EPC-DO: 19-207 Jillian Burgin

> 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

Ten Du fle fater 7/3/19
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	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



Page 3

EPC-DO: 19-207 Jillian Burgin

Copy: Michael Hazen, ALDESHQSS, mhazen@lanl.gov, (E-File)

Terrill Lemke, EPC-CP, tlemke@lanl.gov, (E-File)

William Mairson, ALDESHQSS, wrmairson@lanl.gov, (E-File)

Russell Stone, DESH-UIS, rdstone@lanl.gov, (E-File)

Enrique Torres, EPC-DO, etorres@lanl.gov, (E-File)

Taunia Van Valkenburg, EPC-CP, tauniav@lanl.gov, (E-File)

adesh-records@lanl.gov, (E-File)

epc-correspondence@lanl.gov, (E-File)



ATTACHMENT 1

Quarterly Visual Assessment Forms, First Quarter, 2019 Monitoring Year

EPC-DO: 19-207

JUL 0 3 2019

Date:				

Work Order MSGP-63537

MSGP Monitoring Stations Printed 5/21/2019 - 4:29 PM (Duplicate Copy)

Maintenance De	etails	

Requested By: Wheeler, Holly on

4/4/2019 2:54:00 PM

Wheeler, Holly

Taken By: Procedure:

MSGP Quarterly Visual

Assessment (EPC-CP-

Form-1021.2)

Last PM:

4/3/2019

Project: Visual Assessments

4/1/2019 (P-MSGP-

5366)

Reason: MSGP Quarterly Visual Assessment

Target: 5/31/2019

Priority/Type: / Inspection

Department: Utilities and Infrastructure

MSGP Program

品 RG121.9

TA-60-2 Warehouse

Monitored Outfall (026)

♣ MSGP02601

Contact: Wheeler, Holly Phone: 667-1312

Tasks Description Meas. N/A Nn Yes The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable, Sample information Document the monitoring Period (e.g., Apr-May) apr-may Document the Date/Time Discharge began in the "Reading" field of this line (using 4/1/19 40 mm/dd/yy hh:mm format) 16:23 Document the Date/time sample collected in the "Reading" field of this line (using 4/1/19 50 mm/dd/yy hh:mm format) 16:23 Document the Date/time sample visually assessed in the "Reading" field of this line 4/3/19 (using mm/dd/yy hh:mm format). 60 10:37 Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount 70 (in) in the "Reading" field of this line. snowmelt Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a 80 reason. **Parameters** Is sample colorless? If "Failed", describe, brown Is sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, 120 solvent, petroleum/gas) slightly 130 Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). cloudy Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the 140 comments of this line. 150 Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). 160 Is sample foamless after gently shaking? If "Failed" describe foam color and location 170 (e.g., 'on the surface' or 'in the sample') Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, 180 globs) 190 Is sample free of other obvious indicators of pollution? If "Failed", describe,

Lab	or	Rei	port
-----	----	-----	------

Completed: 4/3/2019 10:37:00 AM

Report: Marwin Shendo

4/4/2019

EPC-DO: 19-207

Attachment 1

NEIL			
Signature / Name I confirm the information as recorded	Date d is true, accurate and complet	Signature / Name re.	Date
	CERTIFICATION ST	ATEMENT	
'I certify under penalty of law that this descordance with a system designed to assessed on my inquiry of the person or pernformation, the information submitted is here are significant penalties for submitty iolations".	sure that qualified personnel pr rsons who manage the system, s, to the best of my knowledge	operly gathered and evaluated the or those persons directly responsib and belief, true, accurate, and com	information submitted le for gathering plete. I am aware that
(Signatory must meet definition in Sec	ction B.11.A, eg. FOD, Ops M	gr, DESH Group Leader, EPC G	Group Leader)
Print name and title: <u>Taunia Van Va</u>	alkenburg, EPC-CP Group Lead	der	

Signature: (See signature on file) Date:

Maintenance Details

Work Order MSGP-63611

MSGP Monitoring Stations Printed 5/21/2019 - 4:31 PM

Last PM: Project: Reason: asks			MSGI		' '	MSGP Program RG121.9 'A-60-2 Warehouse Monitored Outfall (075)	
Reason:	4/1/2019 (P-MSGP-5366)		Contact				
	: MSGP Quarterly Visual Assessment		Contact			No N/A	
asks			Phone:				
SACE							
#	Description			Meas.	No	N/A	Yes
The res	sult of this VA applies to associated SIOs as defined in the SW	PPP, where a	pplicable.				
	information	,					
30	Document the monitoring Period (e.g., Apr-May)			Apr-May	П	13	TV.
40	Document the Date/Time Discharge began in the "Reading" field mm/dd/yy hh:mm format).	of this line (usi		1/22/19 @ 23:47	П		TV.
50	Document the Date/time sample collected in the "Reading" field c mm/dd/yy hh:mm format).	of this line (usin	ng 4	1/22/19 @ 23:47	П	П.	[V]
60	Document the Date/time sample visually assessed in the "Readin (using mm/dd/yy hh:mm format).	ng" field of this	line 4	1/23/19 @ 10:37		П	r/
'0	Document the nature of discharge (e.g., rain, snowmelt). Docume (in) in the "Reading" field of this line.	ent the TOTAL		rain 0.74		Б	
30	Sample collected in first 30 minutes of discharge? If "Failed" or ur						131
	reason.	nknown, provic	de a		П		
aramet	reason.	nknown, provic ————	de a		П		ľ
Paramet	eters	nknown, provic ———	de a	brown		П	
10	reason. eters Is sample colorless? If "Failed", describe. Is sample oderless? If "Failed", provide description (e.g. musty, se				iX		
20	reason. eters Is sample colorless? If "Failed", describe. Is sample oderless? If "Failed", provide description (e.g. musty, se solvent, petroleum/gas)	ewage, sulfur,	sour,	musty	IX IX	<u>-</u> -	
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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)
Print name and title: <u>Taunia Van Valkenburg, EPC-C</u>	P Group Leader
Signature:(See signature on file)	Date:

Target:

5/31/2019

Maintenance Details

Requested: 4/23/2019 3:33:00 PM

Work Order MSGP-63628

MSGP Program

MSGP Monitoring Stations Printed 5/21/2019 - 4:29 PM

-roced -ast PN Project	Assessment (EPC-CP-Form- 1021,2) M: 4/23/2019	Priority/Type: Normal / Inspection Department: Utilities and Infrastructure	品 RG121.9 TA-60-2 Wareho Monitored Outfa Substantially Ide MSGP02701	50-2 Warehouse itored Outfall (026) stantially Identical Outfall (027) SP02701			
Reason	: MSGP Quarterly Visual Assessme	nt	Contact: Phone:				
sks							
#	Description		Meas.	No	N/A	Yes	
he res	sult of this VA applies to associated	SIOs as defined in the SWPPP, where a	applicable.				
ample	e information						
0	Document the monitoring Period (e.		April-May			V	
n		began in the "Reading" field of this line (us	_	_	_	grade.	
0	mm/dd/yy hh:mm format).	lected in the "Reading" field of this line (us	22:50				
)	mm/dd/yy hh:mm format).	rected in the reading field of this line (us	ing 4/22/19 22:50	П			
		ually assessed in the "Reading" field of this					
0	(using mm/dd/yy hh:mm format).		10:46				
)	(in) in the "Reading" field of this line		inches			~	
0		of discharge? If "Failed" or unknown, provi	ide a	_	_		
0	reason.			\perp			
arame							
10	Is sample colorless? If "Failed", des						
20	solvent, petroleum/gas)	ide description (e.g., musty, sewage, sulfur,		П		TV.	
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40	comments of this line.	Failed", describe if raw or waste material(s	vegetation	TX.			
50		ailed", provide description (e.g., fine, cours				1	
60		If "Failed", provide description (e.g., fine, o			工	1	
70	(e.g., on the surface or in the sample					1	
80		"Failed", describe color and thickness (e.g.	. flecks,	_	_	171	
		ators of pollution? If "Failed" describe		+	 -	Tree!	
Comple	Report eted: 4/23/2019 10:46:00 AM	ators of pollution? If "Failed", describe.					
eport:	Alethea Banar AMKOM	4/23/2019					
	Signature / Name	Date Signatur	re / 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

Work Order MSGP-63629

MSGP Monitoring Stations Printed 5/21/2019 - 4:30 PM

			5/31/2019 Normal / Inspection Utilities and Infrastructure	A RG A TA-6 A Mor Sub	i0-2 Warehouse itored Outfall (026) stantially Identical Outfall (028) GP02801			J28)
Reaso	n: MSGP Quarterly Visual Assess	ment		Contac Phone:				
Tasks								
#	Description				Meas.	No	N/A	Yes
The re	sult of this VA applies to associa	ted SIOs as defi	ned in the SWPPP, where a	pplicable	e.			
	e information	/a a Assantana			0: I	_	_	57
30 40	Document the monitoring Period Document the Date/Time Discha mm/dd/yy hh:mm format).		'Reading" field of this line (us	sing	April-May 4/22/19 22:50			
50	Document the Date/time sample mm/dd/yy hh:mm format).	collected in the "l	Reading" field of this line (us	ing	4/22/19 22:50	т.		IV.
60	Document the Date/time sample (using mm/dd/yy hh:mm format).	visually assessed	d in the "Reading" field of this	s line	4/23/19 10:43			TV
70	Document the nature of discharg (in) in the "Reading" field of this I		vmelt). Document the TOTAL	amount	Rain 0.74 inches		_П_	<u>rv</u>
80	Sample collected in first 30 minures	tes of discharge?	If "Failed" or unknown, provi	de a				
Param								
110	Is sample colorless? If "Failed", or ls sample oderless? If "Failed", p) (a a musty sewago sulfur	cour				
120	solvent, petroleum/gas)	Tovide description	r (e.g. musty, sewaye, sullui,	Sour,				
130	Is sample clear? If "Failed", provi							
140	Is sample free of floating solids? comments of this line.	If "Failed", descrì	be if raw or waste material(s) in the	vegetation	[X		
150	Is sample free of settled solids? I	f "Failed", provide	e description (e.a., fine, cours	se).	fine sediment	120		
160	Is sample free of suspended solid							
170	Is sample foamless after gently s (e.g.,'on the surface' or 'in the sa		" describe foam color and lo	cation				TV_
180	Is sample devoid of an oil sheen? globs).	If "Failed", desc	ribe color and thickness (e.g.	flecks,			_	12/
190	Is sample free of other obvious in	dicators of polluti	on? If "Failed", describe.			İ		1
Labor	Danart							
Compl	eted: 4/23/2019 10:43:00 AM : Alethea Banar							
-3	1 MKBa-	4/23/2019						

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 n	nust meet definition in Section B.11.A, eg	FOD, Ops Mgr, DESH Group Lead	ler, EPC Group Leader
Print name ar	nd title: Taunia Van Valkenburg, EPC-	CP Group Leader	
Signature:	(See signature on file)	Date:	



Compliance Programs Group

To: Jillian Burgin, DESH-UIS, B274

Thru: Terrill Lemke, EPC-CP, K490

From: Holly Wheeler, EPC-CP, K490

Phone: 505-667-1312

Phone: 505-667-1312 Symbol: EPC-DO: 19-323

Date: SEP 0 3 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.



EPC-DO: 19-323 Jillian Burgin

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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
William Mairson, ALDESHQSS, wrmairson@lanl.gov
Russell Stone, DESH-UIS, rdstone@lanl.gov
Enrique Torres, EPC-DO, etorres@lanl.gov
Jennifer Payne, EPC-DO, jpayne@lanl.gov
Taunia Van Valkenburg, EPC-CP, tauniav@lanl.gov
Terrill Lemke, EPC-CP, temke@lanl.gov
epocorrespondence@lanl.gov
adesh-records@lanl.gov
adesh-records@lanl.gov



ATTACHMENT 1

Quarterly Visual Assessment Forms, Second Quarter, 2019 Monitoring Year

EPC-DO: 19-323

SEP 0 3 2019	
	-
	SEP 0 3 2019

Maintenance Details

Work Order MSGP-63612

MSGP Monitoring Stations Printed 8/2/2019 - 4:37 PM

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CERTIFICATION STATEMENT

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(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:

Work Order MSGP-63713

MSGP Monitoring Stations Printed 8/2/2019 - 4:39 PM

Reque	sted By:	Banar, Alethea on 6/7/2019 9:54:00 AM	Target: Priority/Type:	6/21/2019 / Inspection	🤔 MSα 品 RG1	GP Program 21.9			
Taken Proced	lure:	Banar, Alethea MSGP Quarterly Visual Assessment (EPC-CP- Form-1021.2)	Department:	Utilities and Infrastructure	Mon Subs	60-2 Warehouitored Outfallstantially Ider BP02701	(026)	utfall ((027)
ast PI		6/4/2019							
Project	t:	Visual Assessments 6/1/19 (P-MSGP-5378)				t: Banar, Alet 699-5836	thea		
Reasoi	n: MSGF	Quarterly Visual Assessn	nent						
asks									
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EPC-DO: 19-323

Attachment 1

6/7/2019

3

Date

CERTIFICATION STATEMENT

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(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader					
Print name and title: <u>Taunia Van Valkenburg</u> ,	EPC-CP Group Leader				
Signature: (See signature on file)	Date:				

Work Order MSGP-63749

MSGP Monitoring Stations Printed 8/2/2019 - 4:40 PM

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Attachment 1

6/17/2019 EPC-DO: 19-323

ALKOW			
Signature / Name	Date	Signature / Name	Date
confirm the information as recorded	is true, accurate and com		

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 mu	ist meet definition in Section B.11.A, e	g. 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:	

Work Order MSGP-63803

	Details							9 - 4:41
Requested By	r: Banar, Alethea on 7/2/2019 5:17:00 PM	Target: Priority/Type:	7/31/2019	MSG	iP Program			
Taken By:	Banar, Alethea		Utilities and Infrastructure	A	21.9 0-2 Wareho	use		
Procedure:	MSGP Quarterly Visual Assessment (EPC-CP- Form-1021.2)			A	tored Outfa			
.ast PM:	7/2/2019							
Project:	Visual Assessments 6/1/19 (P-MSGP-5378)				: Banar, Ale 699-5836	thea		
Reason: MS	GP Quarterly Visual Assessn	nent .						
asks								
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Attachment 1

Date

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(Signatory m	nust meet definition in Section B.11.A, eg	g. FOD, Ops Mgr, DESH Group Le	ader, EPC Group Leader)
Print name ar	nd title: Taunia Van Valkenburg, EPC-	CP Group Leader	
Signature:	(See signature on file)	Date:	12

EPC-DO: 19-323 Attachment 1 8



To: Jillian Burgin, DESH-UIS, B274
Thru: Terrill Lemke, EPC-CP, K490
From: Holly Wheeler, EPC-CP, K490

Phone: 505-667-1312 Symbol: EPC-DO: 19-383 Date: NOV 2 6 2019

Compliance Programs Group

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.



EPC-DO: 19-383 Jillian Burgin

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, <u>mhazen@lanl.gov</u>
William Mairson, ALDESHQSS, <u>wrmairson@lanl.gov</u>

Russell Stone, DESH-UIS, rdstone@lanl.gov

Enrique Torres, EPC-DO, etorres@lanl.gov
Jennifer Payne, EPC-DO, jpayne@lanl.gov

Taunia Van Valkenburg, EPC-CP, tauniav@lanl.gov

epccorrespondence@lanl.gov adesh-records@lanl.gov



ATTACHMENT 1

Quarterly Visual Assessment Forms, Third Quarter, 2019 Monitoring Year

EPC-DO: 19-383

Date: _	NOV 2 6 2019

Work Order MSGP-63881

MSGP Monitoring Stations Printed 8/21/2019 - 8:45 AM

Maint	enance Details				F	rinted 8	3/21/201	9 - 8:45 A			
	ested By: Banar, Alethea on 8/7/2019 3:09:00 PM	Target:	9/30/2019 / Inspection	_	SP Program						
Taken Proce	By: Banar, Alethea	Department: Utilities and Infrastructure SGP Quarterly Visual sesessment (EPC-CP-				RG121.9 A-60-2 Warehouse Monitored Outfall (026) Substantially Identical Outfall (027)					
Last P	M: 8/7/2019			MSG	F02701						
Projec	visual Assessments 8/1/19 (P-MSGP-5390)				: Banar, Ale 699-5836	thea					
Reaso	n: MSGP Quarterly Visual Assess	ment		Phone:	099-0000						
Tasks											
#	Description				Meas.	No	N/A	Yes			
The r	esult of this VA applies to associa	ited SIOs as defi	ned in the SWPPP, where a	pplicable							
Samp	le information										
30	Document the monitoring Period	(e.g., Apr-May)			Aug-Sept			10			
40	Document the Date/Time Discha mm/dd/yy hh:mm format).	rge began in the '	'Reading" field of this line (u	sing	8/6/19 16:25			14			
50	Document the Date/time sample mm/dd/yy hh:mm format).	ocument the Date/time sample collected in the "Reading" field of this line (using im/dd/yy hh:mm format).			8/6/19 16:25	П	П				
60	Document the Date/time sample (using mm/dd/yy hh:mm format).	visually assessed	I in the "Reading" field of this	s line	8/7/19 09:41			F /			
70	Document the nature of discharg (in) in the "Reading" field of this I		vmelt). Document the TOTAl	amount	rain 0.18 in			TV.			
80	Sample collected in first 30 minures	tes of discharge?	If "Failed" or unknown, prov	ide a				TV.			
Paran	neters										
110	Is sample colorless? If "Failed", o	describe.				-):		10			
120	Is sample oderless? If "Failed", p solvent, petroleum/gas)	rovide description	n (e.g. musty, sewage, sulfur,	sour,				TV.			
130	Is sample clear? If "Failed", provi	ide description (e.	g., slightly cloudy, cloudy, op	aque).				TV.			
140	Is sample free of floating solids? comments of this line.	If "Failed", descrit	oe if raw or waste material(s		vegetation	1X					
150	Is sample free of settled solids? I	lf "Failed", provide	description (e.g., fine, cours	se).	insects	IX.					
160	Is sample free of suspended solid	ds? If "Failed", pro	ovide description (e.g., fine, o	course).	V			10			
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., on the surface' or 'in the sample').						Б	TV.			
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks,					_	_	12/			

Completed: 8/7/2019 9:41:00 AM Report: Alethea Banar

Is sample free of other obvious indicators of pollution? If "Failed", describe.

MX DW 8/7/2019

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: <u>Taunia Van Valkenburg, EF</u>	PC-CP Group Leader
Signature: (See signature on file)	Date:

Work Order MSGP-63883

MSGP Monitoring Stations Printed 8/21/2019 - 8:46 AM

Requested By: Taken By: Procedure:		Banar, Alethea on 8/7/2019 4:45:00 PM Banar, Alethea MSGP Quarterly Visual Assessment (EPC-CP- Form-1021.2)	Target: Priority/Type: Department:	9/30/2019 / Inspection Utilities and Infrastructure	A RG⁴ ♣ TA-6 ♣ Mon Subs	GP Program 121.9 50-2 Wareho iitored Outfal stantially Idel GP02701	l (026)		027)
ast P Projec		8/7/2019 Visual Assessments 8/1/19 (P-MSGP-5390)				t: Banar, Ale	thea		
₹easo	n: MSGI	P Quarterly Visual Assessr	nent		Phone:	699-5836			
asks				_					
#	Descri	iption				Meas.	No	N/A	Yes
			ted SIOs as defi	ned in the SWPPP, where	applicable) .			
<mark>Samp</mark> 30	le inform Docum	ation nent the monitoring Period	(e.g., Apr-May)			Aug-Sept			TV.
	Docum	ent the Date/Time Dischar		Reading" field of this line (u	sing	8/7/19			
40	Docum		collected in the "F	Reading" field of this line (us	ing	8/7/19			TV.
50	mm/dd/yy hh:mm format). Document the Date/time sample visually assessed in the "Reading" field of this line					13:10 8/7/19			1
30	(using mm/dd/yy hh:mm format).				16:07			1	
70		ent the nature of discharge the "Reading" field of this li		melt). Document the TOTA	L amount	rain 0.71 inch			1
30		e collected in first 30 minut		If "Failed" or unknown, prov	ide a				
	reason								~
						slight		_	_
110		ple colorless? If "Failed", d ple oderless? If "Failed", pi		(e.g. musty, sewage, sulfur	sour.	yellow tint		Г_	
120	solven	t, petroleum/gas)							N.
130				g., slightly cloudy, cloudy, op oe if raw or waste material(s					10
140		ents of this line.				fire -		-1	1
150	ls sam	ple free of settled solids? It	"Failed", provide	description (e.g., fine, cour	se).	fine sediment	[X		
160				ovide description (e.g., fine,			П	Г	V
170	(e.g.,'o	n the surface' or 'in the sar	nple').	" describe foam color and lo					1
180	ls samı globs).	ole devoid of an oil sheen?	If "Failed", descr	ibe color and thickness (e.g	flecks,				
190	_	ole free of other obvious in	dicators of polluti	on? If "Failed", describe.					TV.
ahor	Danast								
INOL	Report								
Comp	leted: 8/	7/2019 4:07:00 PM							
Repor	t: Alethe	a Banar							
	2		8/8/2019						

Signature / Name	Date	Signature / Name	Date
I confirm the information as recorded			Bute
	CERTIFICATION	STATEMENT	
"I certify under penalty of law that this daccordance with a system designed to as: Based on my inquiry of the person or perinformation, the information submitted is there are significant penalties for submittiviolations".	sure that qualified personnel rsons who manage the syster s, to the best of my knowled	properly gathered and evaluated the m, or those persons directly responsib ge and belief, true, accurate, and com	information submitted. le for gathering plete. I am aware that
(Signatory must meet definition in Sec	ction B.11.A, eg. FOD, Ops	s Mgr, DESH Group Leader, EPC G	Group Leader)
Print name and title: Taunia Van Va	alkenburg, EPC-CP Group L	eader	 \$
Signature: (See signature on file)		Date:	

Work Order MSGP-63884

MSGP Monitoring Stations Printed 8/21/2019 - 8:46 AM

Mainte	nance Details					0.107111			
Taken I Proced Last PN Project	dure: MSGP Quarterly Visual Assessment (EPC-CP- Form-1021.2) M: 8/7/2019		MSGP Program RG121.9 TA-60-2 Warehouse Monitored Outfall (026) Substantially Identical Outfall (028) MSGP02801 Contact: Banar, Alethea Phone: 699-5836						
Tasks									
		sociated SIOs as defined in the SWPPP, wher	Meas. re applicable.	No	N/A	Yes			
30	e information Document the monitoring P	Period (e.g., Apr-May)	Aug-Sept	En.	П	10			
40		ischarge began in the "Reading" field of this line		Г	П	IV.			
50	Document the Date/time sa (using mm/dd/yy hh:mm for	imple collected in the "Reading" field of this line (mat).	8/7/19 13:10			TV			
60	Document the Date/time sa this line (using mm/dd/yy hh	mple visually assessed in the "Reading" field of name format).	8/7/19 16:12			TV.			
70	Document the nature of disc TOTAL amount (in) in the "F	charge (e.g., rain, snowmelt). Document the Reading" field of this line.	rain 0,71 inch		<u></u>	TV.			
80	Sample collected in first 30 provide a reason.	minutes of discharge? If "Failed" or unknown,				1			
Parame	eters								
110	Is sample colorless? If "Fail	ed", describe.	slight yellow color	X					
120	Is sample oderless? If "Faile sulfur, sour, solvent, petrole	ed", provide description (e.g. musty, sewage, um/gas)				TV_			
130	opaque).	provide description (e.g., slightly cloudy, cloudy,	slightly cloudy	[X					
140	Is sample free of floating so material(s) in the comments	lids? If "Failed", describe if raw or waste s of this line.				TV.			
150	Is sample free of settled sol course).	ids? If "Failed", provide description (e.g., fine,	fine and course sediment and gravel	124					
160	fine, course).	d solids? If "Failed", provide description (e.g.,		_п_		1			
170	location (e.g., on the surface					TV.			
180	(e.g. flecks, globs).	heen? If "Failed", describe color and thickness			П	V			
190	Is sample free of other obvio	ous indicators of pollution? If "Failed", describe.			Ţį.	1			
•	Report eted: 8/7/2019 4:12:00 PM : Alethea Banar								

EPC-DO: 19-383 Attachment 1 5

8/8/2019

ALAKBON			=8 / <u>-</u>
Signature / Name I confirm the information as recorded i	Date is true, accurate and comple	Signature / Name te.	Date
	CERTIFICATION ST	TATEMENT	
"I certify under penalty of law that this doc accordance with a system designed to assu Based on my inquiry of the person or perso information, the information submitted is, there are significant penalties for submittin violations".	are that qualified personnel proons who manage the system, to the best of my knowledge	roperly gathered and evaluated the or those persons directly responsible and belief, true, accurate, and com	information submitted ble for gathering uplete. I am aware that
(Signatory must meet definition in Section	ion B.11.A, eg. FOD, Ops M	Igr, DESH Group Leader, EPC (Group Leader)
Print name and title: <u>Taunia Van Valk</u>	kenburg, EPC-CP Group Lea	der	
Signature: (See signature on file)		_Date:	_

EPC-DO: 19-383 Attachment 1 6

Work Order MSGP-63892

MSGP Monitoring Stations Printed 8/21/2019 - 8:43 AM

-	d: 8/8/2019 2:06:00 PM e: MSGP Quarterly Visual Assessment (EPC-CP-Form- 1021.2) 8/8/2019 Visual Assessments 8/1/19		9/30/2019 Normal / Inspection Utilities and Infrastructure	MSGP 品 RG121 L TA-60-2 Monitor MSGP	.9 2 Warehou red Outfall			
Reason:	(P-MSGP-5390) MSGP Quarterly Visual Assessm	nent		Contact: Phone:				
asks								
# [Description				Meas.	No	N/A	Yes
The resul	It of this VA applies to associat	ed SIOs as defi	ned in the SWPPP, where a	applicable.				
-	nformation							
	Document the monitoring Period (aug-sept			1
	Document the Date/Time Discharg nm/dd/yy hh:mm format).	ge began in the '	"Reading" field of this line (u	sing	8/7/19 14:16		П	
	Document the Date/time sample of	collected in the "I	Reading" field of this line (us	ing	8/7/19			
	nm/dd/yy hh:mm format).				14:16	T.		14
	Document the Date/time sample v mm/dd/yy hh:mm format).	isually assessed	d in the "Reading" field of this	s line (using	8/8/19 10:05	П	П	V
	Document the nature of discharge	(e.g., rain, snov	vmelt). Document the TOTA	L amount	10.00			
0 (in) in the "Reading" field of this lir	ie.			rain .71			V
_	Sample collected in first 30 minute eason.	es of discharge?	If "Failed" or unknown, prov	ride a		Е.		14
								10)
aramete 10 ls	e rs s sample colorless? If "Failed", de	ecribe			brown	**		-
	s sample oderless? If "Failed", pr		n (e.g. mustv. sewage, sulfur	sour.	DIOWII			
	solvent, petroleum/gas)				musty	IX.		
	s sample clear? If "Failed", provid				opaque	IX.		
	s sample free of floating solids? In comments of this line.	f "Failed", descri	be if raw or waste material(s	s) in the		_	_	177
	s sample free of settled solids? If	"Failed" provide	description (e.g. fine cour	se)	fine	124		10/
	s sample free of suspended solid							1
ls	s sample foamless after gently sh	aking? If "Failed						
	e.g., on the surface or in the sam							_[]
	s sample devoid of an oil sheen? (lobs).	If "Failed", desc	ribe color and thickness (e.g	ı flecks,			m	1
	s sample free of other obvious inc	licators of polluti	ion? If "Failed", describe					10/
bor Re	port							
omplete	d: 8/8/2019 10:05:00 AM							
	Marwin Shendo							
34								
λ.	PCID							
JV	134.	8/8/2019						
	Signature / Name the information as recorded is t	Date	Signatu	re / 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: 8/8/2019 2:06:00 PM

Work Order MSGP-63896

MSGP Program

MSGP Monitoring Stations Printed 8/21/2019 - 8:45 AM

Procedu _ast PM	ire: MSGP Quarterly Visual Assessment (EPC-CP-Form- 1021,2) : 8/8/2019	Priority/Type: Normal / Inspection Department: Utilities and Infrastructure	器 RG121.9 TA-60-2 Ward Monitored Out		ı	
roject:			₫ MSGP02601			
	(P-MSGP-5390)		Contact:			
eason:	MSGP Quarterly Visual Assessr	nent	Phone:			
sks						
#	Description		Meas	. No	N/A	Yes
he res	ult of this VA applies to associa	ted SIOs as defined in the SWPPP, where	applicable.			
	information			_		1250
0	Document the monitoring Period		aug-se			
0	mm/dd/yy hh:mm format).	rge began in the "Reading" field of this line (ປ	sing 8/2/1 12:57			1
0	Document the Date/time sample mm/dd/yy hh:mm format).	collected in the "Reading" field of this line (us	sing 8/2/1 12:57			1
0	Document the Date/time sample (using mm/dd/yy hh:mm format).	visually assessed in the "Reading" field of thi	s line 8/8/1 10:11			
0	Document the nature of discharg (in) in the "Reading" field of this li	e (e.g., rain, snowmelt), Document the TOTA ne,	L amount rain .0	3		TV.
0	Sample collected in first 30 minut reason.	es of discharge? If "Failed" or unknown, prov	vide a			
aramet	ters					
10	Is sample colorless? If "Failed", d		brown	 		
20	Is sample oderless? If "Failed", p solvent, petroleum/gas)	rovide description (e.g. musty, sewage, sulfu	r, sour,		Г	TV.
30	le sample clear? If "Failed" provi	de description (e.g., slightly cloudy, cloudy, o	slightl paque). cloud			
40		lf "Failed", describe if raw or waste material(s		<u> </u>		12
50		F"Failed", provide description (e.g., fine, cour	se).			TV
60	b 	ls? If "Failed", provide description (e.g., fine,			F	TV
70		naking? If "Failed" describe foam color and lo				10
80	Is sample devoid of an oil sheen? globs).	If "Failed", describe color and thickness (e.g	ı. flecks,			10
90	Is sample free of other obvious in	dicators of pollution? If "Failed", describe.				1
•	eport ted: 8/8/2019 10:11:00 AM Marwin Shendo		-			
/	KSLP	8/8/2019				
	Signature / Name	Date Signatu	ire / Name		Date	
FF	PC-DO: 19-383	Attachment 1				9

9/30/2019

Target:

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: _____



Environmental Protection & Compliance Division

Compliance Programs Group

To: Russell Stone, DESH-UIS, K760

Thru: Terrill Lemke, EPC-DO, K490

From: Holly Wheeler, EPC-CP, K490

Phone: 505-667-1312 Symbol: EPC-DO: 19-460 Date: JAN 1 0 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 OVA 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.

Ouarter 1: April – May Quarter 2: June – July

August – September Ouarter 3: October - November Ouarter 4:

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.

<u>Taunia Van Valkenburg, EPC-CP Group Leader</u> Los Alamos National Laboratory

Manager Signature

Manager Signature

1//0/20

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
William Mairson, ALDESHQSS, wrmairson@lanl.gov
Enrique Torres, EWP, etorres@lanl.gov
Jennifer Payne, EPC-DO, jpayne@lanl.gov
Taunia Van Valkenburg, EPC-CP, tauniav@lanl.gov
Terrill Lemke, EPC-CP, tlemke@lanl.gov
epccorresondence@lanl.gov
adesh-records@lanl.gov



ATTACHMENT 1

Quarterly Visual Assessment Forms, Fourth Quarter, 2019 Monitoring Year

EPC-DO: 19-460

Date:	JAN 1 0 2020

Work Order MSGP-63978

MSGP Monitoring Stations Printed 10/28/2019 - 2:34 PM

	ed: 10/3/2019 4:23:00 PM re: MSGP Quarterly Visual Assessment (EPC-CP-Form- 1021.2) 10/4/2019 Visual Assessments 10/1/19	Target: Priority/Type: Department:	11/1/2019 / Inspection Utilities and Infrastructure	MSGP 品 RG121 小 TA-60- 小 Monito	.9 2 Warehou red Outfall			
Reason:	(P-MSGP-5407) MSGP Quarterly Visual Assessm	ent		Contact: Phone:				
asks								
# 1	Description				Meas.	No	N/A	Yes
	It of this VA applies to associate	ed SIOs as defi	ned in the SWPPP, where a	applicable.				
Sample i	nformation							
	Document the monitoring Period (oct-nov			
0 r	Document the Date/Time Discharg mm/dd/yy hh:mm format).				10/4/19 04:59			1
<u> 0 r</u>	Document the Date/time sample c mm/dd/yy hh:mm format).				10/4/19 04:59			1
0 (Document the Date/time sample v /using mm/dd/yy hh:mm format).				10/4/19 10:00			
	Document the nature of discharge in) in the "Reading" field of this lin		melt). Document the TOTAL		ain .49			V
	Sample collected in first 30 minute reason.	s of discharge?	If "Failed" or unknown, prov	ide a				1
Paramete	ers							
10 Js	s sample colorless? If "Failed", de	scribe.			brown	130		П
	s sample oderless? If "Failed", pro colvent, petroleum/gas)	ovide description	(e.g. musty, sewage, sulfur,		musty	IM.	П	П
30 Js	s sample clear? If "Failed", provid	e description (e.	g., slightly cloudy, cloudy, op	paque).	paque	136	П	Г
	s sample free of floating solids? If comments of this line.	"Failed", describ	pe if raw or waste material(s	,	getation	IM.	П	П
50 Is	s sample free of settled solids? If	"Failed", provide	description (e.g., fine, cours	se).	coarse	THE		
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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)
Print name and title: Taunia Van Valkenburg, EPC-CP Group Leader
Signature: (See signature on file) Date:

Work Order MSGP-64003

MSGP Monitoring Stations Printed 10/28/2019 - 2:31 PM

Priority/Type: Normal / Inspection Assessment (EPC-CP-Form-1021.2) IPM: 10/4/2019 ect: Visual Assessment (10/1/19 (P-MSGP-5407) son: MSGP Quarterly Visual Assessment Description Meas. No N/A Yes Pescription Meas. No N/A Yes Pescription Description Description Description Description Description Description Description Decument the monitoring Period (e.g., Apr-May) Decument the Date/Time Discharge began in the "Reading" field of this line (using min/dd/yy hh:mm format). Decument the Date/Time sample collected in the "Reading" field of this line (using min/dd/yy hh:mm format). Decument the Date/time sample visually assessed in the "Reading" field of this line (using min/dd/yy hh:mm format). Decument the Date/time sample visually assessed in the "Reading" field of this line (using min/dd/yy hh:mm format). Decument the Date/time sample visually assessed in the "Reading" field of this line (using min/dd/yy hh:mm format). Decument the Date/time sample visually assessed in the "Reading" field of this line (using min/dd/yy hh:mm format). Decument the nature of discharge (e.g., rain, snowmelt). Decument the TOTAL amount (in) in the "Reading" field of this line. Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. Image: Period of this line. Is sample doeriess? If "Failed", describe. Is sample free of settled solids? If "Failed", describe if raw or waste material(s) in the comments of this line. Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).	-	10/7/0040 40 44 65 114	20/22/2					
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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)

Print name and title: ______ Taunia Van Valkenburg, EPC-CP Group Leader

Signature: _____ (See signature on file) ______ Date: _____

Work Order MSGP-64037

MSGP Monitoring Stations Printed 10/28/2019 - 2:32 PM

To ke =	. Dw	10/16/2019 10:06:00 AM	Priority/Type:	'	-∰ RG12				
aken roce	dure:	Banar, Alethea MSGP Quarterly Visual Assessment (EPC-CP- Form-1021.2)	Department:	Utilities and Infrastructure	Monito Substa	-2 Warehou pred Outfall antially Iden	(026)	utfall (0:	27)
ast P	PM:	10/7/2019			MSGP	02701			
rojec	et:	Visual Assessments 10/1/19 (P-MSGP-5407)			Contact:	Banar, Aleti 699-5836	nea		
easo	on: MSGF	Quarterly Visual Assessm	ent		, mono.				
sks									
#	Descri	ption				Meas.	No	N/A	Yes
'ho re		is VA applies to associate	d SIOe ae dafir	and in the SWPPP where	annlicable				
			ed SIOS as delli	ied in the Sweet, where	applicable.				
Samp 10	le informa		a Anr May)			Oct-Nov		_	Trail
0		ent the monitoring Period (e ent the Date/Time Discharg		Reading" field of this line (sina	10/4/19			
0		yy hh:mm format).	o sogum in the 1	. todaing hold of this life (t	9	11:05		- design	V
		ent the Date/time sample of	ollected in the "R	leading" field of this line (us	sing mm/dd/yy	10/4/19			-
0		format).			1. ()	11:05		Š	
0		ent the Date/time sample vi /yy hh:mm format).	sually assessed	in the "Reading" field of th	s line (using	10/7/19 15:05			r
-		ent the nature of discharge	(e.g., rain, snow	melt). Document the TOTA	L amount (in)		1, 6		
0	in the "I	Reading" field of this line.				in.			
0	Sample reason.	collected in first 30 minute	s of discharge? I	f "Failed" or unknown, prov	ride a			1	TO!
aram	neters								
10	Is samp	ole colorless? If "Failed", de	scribe			Brown	134		
20		ole oderless? If "Failed", pro , petroleum/gas)	vide description	(e.g. musty, sewage, sulfu	r, sour,	Musty	136	П	
30	Is samp	ole clear? If "Failed", provide	e description (e.g	g., slightly cloudy, cloudy, o	paque).		П	П	TV.
		ole free of floating solids? If	"Failed", describ	e if raw or waste material(s	s) in the	F745	-		
40	comme	nts of this line.				Veg	1	皿	
50	ls samn	ole free of settled solids? If '	'Failed", provide	description (e.g., fine cour	se).	fine sediment	M		
60		le free of suspended solids							W
	Is samp	le foamless after gently sha	aking? If "Failed"			-			
70		the surface' or 'in the sam			-		, R	Ę	
80	Is samp globs).	le devoid of an oil sheen? I	f "Failed", descri	be color and thickness (e.g	ı. flecks,		— ;	_	170
90		le free of other obvious ind	cators of pollution	on? If "Failed" describe	-				
	10 301110	io noc of other obvious ma	oators of politic	AT. II T GIICA , GGGGIDE.					191
hor	Report								
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enor	t: Alethea	Ranar							
SPUI	· Actica	Dalla							
	MAN	R							
	MIK	Da-	10/16/2019						
	Ciana	ture / Name	Date	Signs	ture / Name			Date	

I confirm the information as recorded is true, accurate and complete.

CERTIFIC.	ATION	CTATEN	A IT NIT
C. R. RC I I H I C.	A	S I A I H.II	

"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 ti	tle: Taunia Van Valkenburg, E	PC-CP Group Leader	
Signature:	(See signature on file)	Date:	

Work Order MSGP-64052

MSGP Monitoring Stations Printed 10/28/2019 - 2:33 PM

Maintenance	Details -		

Requested By: Banar, Alethea on

10/28/2019 12:03:00 PM

Taken By: Banar, Alethea

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

Target: 11/30/2019

Priority/Type: / Inspection

Department: Utilities and Infrastructure

MSGP Program

- 掃 RG121.9

TA-60-2 Warehouse
Monitored Outfall (026)

Substantially Identical Outfall (028)

▲ MSGP02801

Contact: Banar, Alethea Phone: 699-5836

#	Description	Meas.	No	N/A	Yes
The re	esult of this VA applies to associated SIOs as defined in the SWPPP, where appl	icable.			
Samp	le information				
30	Document the monitoring Period (e.g., Apr-May)	Oct-Nov			
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			10/
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	_==		10
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			To !
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	Б		
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.	-			
Paran	neters				
110	Is sample colorless? If "Failed", describe.				
120	Is sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)				
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).				
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation			
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	fine and course sediement	13%		
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).				14
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., on the surface or 'in the sample').				1
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).				1
90	Is sample free of other obvious indicators of pollution? If "Failed", describe.				W

Labor Report

Completed: 10/25/2019 8:30:00 AM

Report: Alethea Banar

10/28/2019

Signature / Name I confirm the information as recorded is	Date true, accurate and comple	Signature / Name te.	Date
	CERTIFICATION ST	FATEMENT	
I certify under penalty of law that this document coordance with a system designed to assure Based on my inquiry of the person or person information, the information submitted is, to here are significant penalties for submitting violations".	e that qualified personnel parts who manage the system, of the best of my knowledge	roperly gathered and evaluated the in or those persons directly responsible and belief, true, accurate, and comp	information submitted le for gathering plete. I am aware that
(Signatory must meet definition in Sectio	on B.11.A, eg. FOD, Ops N	Agr, DESH Group Leader, EPC G	roup Leader)
Print name and title: <u>Taunia Van Valke</u>	nburg, EPC-CP Group Lea	der	_

Signature: (See signature on file) Date:

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION

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: Mussell Stone	Title: GC DESH-UIS
Signature: Sweet Stra	Date:

EPA Notified Date (1f 45 day time frame is			1 6
CA Status Deac	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.	Clean up the spill. The area was microblazed 12/20/18.	Reported to facility personnel - at the time of inspection. Housekeeping to be done 11/30/18.
CA Complete Date Completed CA Expected Date	. *		,
te Complet	>	>	>
	12/20/2018 12:00	12/20/2018 9:00	11/30/2018 15:00 V
CA Initiate Date	12/20/2018 8:00	12/20/2018 8:00	11/30/2018 13:00
Is SWPPP Modification Required?	z	z	z
Provide Action Taken at Affected StDs			Housekeepi N ng needed at outfall areas.
SID Affected		1	027, 028
Ois	z	z	>
Corrective Action Description	Cover the metal, move it under a N canopy or within a building, salvage/recycle it, or dispose of it.	Clean up the spill.	Housekeeping is needed throughout site and fenceline areas.
Iype Other			
Inspection	Routine facility - inspection	e Routine facility - he inspection	Routine facility - inspection
Problem Description	Rusted metal reinforcement for concrete was stored in the southern portion of the east yard at the TA-60-2 Warehouse uncovered.	There is a spill of material (presumed to be Routine facility from the fire suppression system) under the inspection canopy east of TA-60-2 by LT-6.	Trash is present throughout site and at fencelines and outfalls areas.
Finding Other Desc			
	Control measures - inadequate to meet non-numeric effluent limitations	Unauthorized release or discharge	Control measures not properly operated or maintained
CA Report Status	ş	g	g
Inspection Date Specific Location CA Report Finding Status	12/19/2018 14:30 Southen portion of A new the yard, east of Th- corrective 60-2.	Under the canopy A new on the east side of corrective TA-60-2 by LT-6 action	11/30/2018 10:00 Throughout site and A new at fencelines and corrective outfall areas. action
	12/19/2018 14:30	TA-60-2 12/19/2018 14:30 Under the canopy A new Warehouse on the east side of correctiv	11/30/2018 10:00
MSGP Facility Dusc	TA-60-2 Warehouse	TA-60-2 Warehouse	TA-60-2 Warehouse
FOD	5	5	5
*	456	455	425

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: Newsell Stone	Title: Est Morego 4
Signature: Lessello	Date: 1/24/2020

CAR# FOD	MSGP Facility Desc	Inspection Date Specific Location	Inspector Name	Identifying Name	CA Report Status	Finding	Finding Other Desc	Problem Description	Inspection Type Inspectic Other	tion Type Co	orrective Action Description S	SIO SIO Affect	Provide ted Action Taken at Affected SIOs	Swppp C Modify	A Initiate Date C	A Complete Date Comp	oleted CA Expected Date	CA Status Desc	EPA Notified Date
1663 UI	TA-60-2 Warehouse	12/11/2019 11:05 Along the fenceline at the TA-60-2 Warehouse.		SHENDO P MARWIN I		Control measures inadequate to meet non- numeric effluent limitations	-	Trash was present along the fenceline at the TA-60-2 Warehouse.	- Routine facility - inspection	Tr	ash along the fenceline was picked up. N	1 -	-	N	12/12/2019 13:00	12/12/2019 14:00 Y	-	N/A	-
1662 UI	TA-60-2 Warehouse	12/11/2019 11:05 Southern part of east yard at the TA-60-2 Warehouse.		SHENDO P MARWIN I		Control measures inadequate to meet non- numeric effluent limitations	-	In the southern portion of the east yard, there were two full metal for recycle roll-off bins that were not covered.	Routine facility - inspection		te two roll-off bins containing metal for recycle were Neered.	1 -	-	N	12/18/2019 8:00	12/18/2019 9:15 Y	-	N/A	-
1661 UI	TA-60-2 Warehouse	12/11/2019 11:05 Center of the east yard at the TA-60-2 Warehouse.	SHENDO MARWIN I	SHENDO P MARWIN I		Control measures inadequate to meet non- numeric 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.		Th	te tarp was replaced on the metal storage rack.	- 1	-	N	12/17/2019 13:30	12/17/2019 14:00 Y	-	N/A	-
1638 UI	TA-60-2 Warehouse	10/30/2019 12:00 SE Section of Salvage Yard	BURGIN JILLIAN E	BURGIN JILLIAN E	A new corrective action	Unauthorized 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.		M	icroblaze oil spot on asphalt.	-	-	N	10/30/2019 14:00	10/30/2019 16:00 Y	-	N/A	-
1637 UI	TA-60-2 Warehouse	10/30/2019 12:00 South Side of Salvage Yard	BURGIN JILLIAN E	BURGIN JILLIAN E	A new	Control measures not properly operated or maintained	-	At the TA-60-2 Salvage Yard, broken furniture and particle board pieces are on the ground in the south part of the salvage yard.		Cl	ean up and dispose of debris . N	-	-	N	10/30/2019 14:00	10/30/2019 16:00 Y	-	N/A	-
1610 UI	TA-60-2 Warehouse	9/23/2019 17:25 Outfall 075 at the TA-60-2 Warehouse.	WHEELER HOLLY L	WHEELER HOLLY L		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 04/22/2019 was 37 ug/L. and the water quality standard is 7.0 ug/L.	Impaired waters - monitoring	dis en mi do act	rsonnel shall evaluate potential pollutant sources of solved Copper and implement additional controls to issure discharge of this pollutant source in stormwater is inimized. 9/24/19 the outfall was evaluated and walked wan with Roads & Grounds to determine what corrective tions would be taken. 9/25 The outfall was stabilized th angular rock and a Metallox was was installed.		-	Y	9/24/2019 13:00	9/25/2019 13:00 Y	-	N/A	-
1609 UI	TA-60-2 Warehouse	9/23/2019 17:19 Outfall 075 at the TA-60-2 Warehouse.	WHEELER HOLLY L	WHEELER HOLLY L		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 04/22/2019 was 5,760 ug/L and the water quality standard is 1,010 ug/L.	m 9	to is: wa coi sta	rsonnel shall evaluate potential pollutant sources of total N coverable Aluminum and implement additional controls ensure discharge of this pollutant source in stormwater minimized. 9/24/19 the outfall was evaluated and ilked down with Roads & Grounds to determine what rrective actions would be taken. 9/25 The outfall was biblized with angular rock and a Metallox was was stalled.		-	Y	9/24/2019 13:00	9/25/2019 13:00 Y	-	N/A	-
1605 UI	TA-60-2 Warehouse	9/23/2019 16:21 Outfall 026 at the TA-60-2 Warehouse.		WHEELER HOLLY L		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 04/01/2019 was 9.67 ug/L and the water quality standard is 7.0 ug/L.	Impaired waters - monitoring	dis en mi wh cle	rsonnel shall evaluate potential pollutant sources of solved Copper and implement additional controls to sure discharge of this pollutant source in stormwater is inimized. Multiple corrective actions have been taken, nich post-date this exceedance: Sweeping and outfall can-out was performed in Jul, Aug and Sept 2019. The etallox wattles were changed out in Sept 2019.	Only outfall 026		to	9/24/2019 8:00	9/24/2019 8:00 Y	-	N/A	-
1604 UI	TA-60-2 Warehouse	9/23/2019 16:11 Outfall 026 at the TA-60-2 Warehouse.		WHEELER HOLLY L		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 04/01/2019 was 2,350 ug/L and the water quality standard is 1,010 ug/L.	m 9	receito to is: wh act Sw an	rsonnel shall evaluate potential pollutant sources of total Y coverable Aluminum and implement additional controls ensure discharge of this pollutant source in stormwater minimized. Multiple corrective actions have been taken, nich post-date this exceedance. Multiple corrective tions have been taken, which post-date this exceedance: weeping and outfall clean-out was performed in Jul, Aug d Sept 2019. The Metallox wattles were changed out in pt 2019.	Only outfall 026		to	9/24/2019 8:00	9/24/2019 8:00 Y	-	N/A	-
1568 UI	TA-60-2 Warehouse	7/24/2019 11:45 NE corner of warehouse yard, NE corner of Bldg. 2 and center pipe rack on east section of yard.	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 recovered. At the NE section of the facility, metal piping needs to be covered, at the NE ocroner of the awing of building 2, metal pipe racks need to be recovered (tarp was present but had been removed 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.	d	ab	over or recover metal materials as listed in locations ove. Facility personnel were notified of the corrective tion during the inspection.	1 -	-	N	7/24/2019 13:00	7/24/2019 14:00 Y	-	N/A	
1567 UI	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 (describe):	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.		Fa	rform housekeeping at the above mentioned areas. Notifity personnel were notified of the corrrective action at time of inspection.		-	N	7/24/2019 13:00	7/24/2019 14:00 Y	-	N/A	-
1532 UI	TA-60-2 Warehouse	5/31/2019 15:00 In the southern salvage yard of TA-60-2.			A new corrective action	Control measures inadequate to meet non- numeric effluent limitations	-	There are several sources of copper metal stored outside in the yard uncovered.	Other (describe) : Facility v down.	pla the	over one inch diameter copper electrical wire and copper Nated parts until shipped off site. Facility personnel put e materials into an enclosed area immediately after the oblem was identified.	1 -	-	N	5/31/2019 14:00	5/31/2019 14:30 Y	-	N/A	-
1520 UI	TA-60-2 Warehouse	5/7/2019 10:15 Along the east fence at the TA- 60-2 Warchouse and at outfall 027 inside the fence.				Control measures inadequate to meet non- numeric effluent limitations	-	Trash is present inside the fence at outfall 027 and along the east fenceline at the TA-60-2 Warehouse.		- 1		outfall 027 is		nt	5/8/2019 11:00	5/8/2019 12:00 Y	-	Work completed 5/8/19.	-
1495 UI	TA-60-2 Warehouse	4/23/2019 10:00 Southwest Yard Area	BURGIN JILLIAN E	BURGIN JILLIAN E	A new corrective action	Unauthorized release or discharge	-	A worker temporarily parked a forklift to go into the building and when he returned to the forklift a hose on it had sprung a leak, releasing less than a quart of hydraulic fluid/oil.		an pe of sit	te oil was immediately remediated with dry absorbent N d the area was also Microblazed. This process was rformed twice. Pig booms were also placed downstream the spill to absorb any impacted oil in stormwater on e. The spill did not leave the area or reach an outfall. te forklift was taken to Heavy Equipment for repairs.	1 -	-	Y	4/23/2019 10:30	4/23/2019 12:00 Y	-	Corrective action was completed immediately after the spill occurred. Di observed the clean-up during the routin inspection.	
1479 UI	TA-60-2 Warehouse	3/26/2019 11:30 Outfalls 026 and 027	BURGIN JILLIAN E	BURGIN JILLIAN E	A new corrective action	Other (describe):	PM Needed	Outfalls need sediment/trash removal and new Metallox Wattles installed (after winter maintenance).	Routine facility - inspection		ean sediment and trash out of outfall draining areas and Y place Metallox wattles.	,	27 Outfalls 02 and 027 both need clean out.	6 Y	4/3/2019 8:00	4/3/2019 16:00 Y	-	Reported to facility personnel at the tin of inspection. Will need to contact Roa & Grounds to have them schedule worl DEP walked down with Roads & Groun 3/29/19. Work is scheduled to be performed the week of 4/1/19. Work wiperformed on 4/3/19.	ds k. nds
1461 UI	TA-60-2 Warehouse	1/31/2019 10:00 NW Side of East Canopy Pipe Storage			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.	Routine facility - inspection	Re	etarp the pipe storage area.	1 -	-	N	1/31/2019 10:30	1/31/2019 11:00 Y	-	CAR was reported to facility at the time inspection.	of -

ATTACHMENT 10: SCHEDULED MAINTENANCE LOG

SCHEDULED MAINTENANCE LOG

Control Measure or

	Equipment Description		Action Takon By
Date	(include leasting whom any any anists)	Action Taken/Comments	Action Taken By
Date	(include location where appropriate)	Action Taken/Comments	(printed name & Z no.)
	+		
1			

TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 11: TRAINING DOCUMENTATION

2018 SWPPP Training Roster – TA-60-2 Salvage & Warehouse 12/17/18

Name	Z#	Job Title
Joseph Tomero	224817	SAlvage Foreman/ Worknowse Forman
Sarchez han	176445	Workbouse Forman
·		

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 torns 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 Ajusted 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



- (NPDES) Permit associated with the Clean Water Act (CWA) of 1973 The MSGP is a National Pollutant Discharge Elimination System
- 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



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)



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 Vandenbusch, 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



TA-60-2 SWPPP – Control Measures (BMPs)

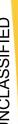


- Berming: South/SE boundary of the facility: Reduces stormwater runon to the site from adjacent areas. Directs stormwater to outfalls. Prevents erosion.
- down run-off and reduce sedimentation. Mettallox wattles filters out Flow dissipation to outfalls: gravel bags, wattes, ecobloks. Slows metal residuals.











TA-60-2 SWPPP – Control Measures (BMPs)

Los Alamos













TA-60-2 SWPPP – Control Measures (BMPs) NATIONAL LABORATORY

- Good House-Keeping Practices: Covered and enclosed trash bins minimize debris on site. Sweeping of parking lots can remove accumulated dust and reduces pollutants.
- dumpsters closed. Recycle water bottles, cans, plastic bags, YOU can help reduce trash as well: keep truck beds clean, properly dispose of food trash and cigarette butts, keep









TA-60-2 SWPPP - Control Measures (BMPs) NATIONAL LABORATORY



Secondary containment units provide spill protection for oilfilled equipment, tanks and drums as well as chemicals and waste drums/containers.









Microblaze and pig mats) can be used to mitigate spills and Spill kits, clean-up materials (such as dry absorbent, prevent further releases to the environment.

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TA-60-2 SWPPP - Spill Reporting



Know your spill Kit locations.

immediately to your Report spills supervisor.

Additional contacts are provided in the **LOG-MSS** Guidance





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.

Ja Spill

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.

The Environmental Protection & Compliance (EPC-CP) group will also be spill. If the pollutant has reached a watercourse or storm drain, EPC-CP is responsible for reporting the spill to the state environment department -When in doubt, contact the SEO. They will respond, assess the situation, determine further actions required and will contact appropriate personnel. contacted. EPC-CP will ensure a Spill Report is completed to document the

(DEP) can help coordinate spill response and clean-up activities and can A WMC will ensure that waste from a spill clean-up is properly managed and disposed. The LOG-MSS or FOD Deployed Environmental Professional 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







TA-60-2 SWPPP - Sampling (Monitoring)



There are two types of monitoring:

Benchmark (Quarterly)

 Monitors for sectorspecific pollutants (i.e. metals)

Impaired Waters (Annual)

Monitors for pollutants associated with receiving water limits or impairments.

Sampling parameters for TA-60-2

Location Parameters	Not Required for Sector P			Aluminum	1 Gross 6 Alpha, adjusted	_		PCB in Water Column	
Numeric Limitations			81 mg/L None	0.681 mg/L None 15 pCi/L 0.006 mg/L 0.00064 ug/L					
Schedule				Annual					

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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



TA-60-2 SWPPP - Corrective Actions NATIONAL LABORATIONS



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.



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



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



TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

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

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

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

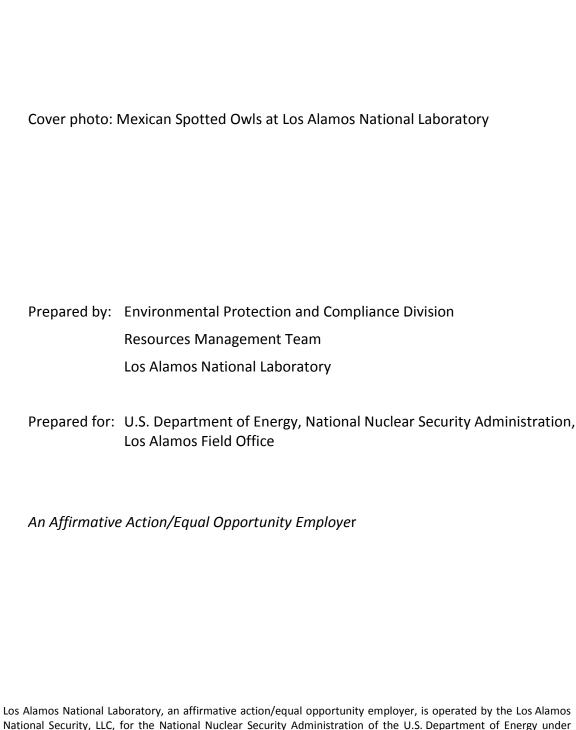
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October2017

Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory







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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.

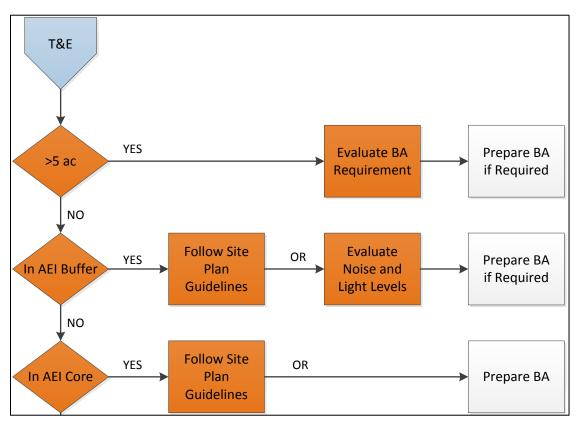


Figure 1. Process flowchart for determining site plan requirements

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 deermice (*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)]¹ 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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¹ 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 ≥ 6 dB(A) during any portion of the 24-hour day, or it increases average light levels by ≥ 0.05 fc at night. Changes in noise and light levels are measured at the core area boundary if the source is outside the core area, or at 10 m (33 ft) from the source if the source is inside the undeveloped core area. Impacts of changes in developed areas on undeveloped cores are measured at the developed area boundary if it is within the core, or at the core area boundary if the developed area is outside of the core.

4.4.2 Fuels Management Practices to Reduce Wildfire Risk

The recovery plan for the Mexican Spotted Owl lists stand-replacing wildfires as a primary threat to their habitat and encourages land managers to reduce fuel levels and abate fire risks in ways compatible with owl presence on the landscape (USFWS 1995). Within undeveloped core areas, on slopes >40 percent, in the bottoms of steep canyons, and within 30 m (100 ft) of a canyon rim, thinning of trees <22 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 Racinez 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 ≤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
People			
	Low	No Restrictions*	No Restrictions
	Medium	March 1 to August 31	No Restrictions
	High	March 1 to August 31	No Restrictions
Vehicles			
	Low	No Restrictions	No Restrictions
	Medium	March 1 to August 31	No Restrictions
	High	March 1 to August 31	No Restrictions
Aircraft			
	Low	March 1 to August 31	No Restrictions
	Medium	March 1 to August 31	March 1 to May 15
	High	March 1 to August 31	March 1 to August 31
Other Light Production			
	Low	March 1 to August 31	No Restrictions**
	Medium	March 1 to August 31	No Restrictions**
	High	March 1 to August 31	No Restrictions**
Other Noise Production			
	Low	March 1 to August 31	No Restrictions**
	Medium	March 1 to August 31	No Restrictions**
	High	March 1 to August 31	No Restrictions**
Explosives Detonation (se	e text in Section 4.5.	1)	

^{*} Entry is restricted in core areas that are occupied within 400 m (1,312 ft) of the nest site from March 1 to August 31. If the current nest has not been located, entry is restricted within 400 m (1,312 ft) of the previous year's nest site.

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.

^{**} Noise or light production in the buffer is restricted if the activity would violate core area restrictions on noise or light.

- 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 June15 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

LANS 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 (https://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 Racinez 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
People			
	Low	No Restrictions	No Restrictions
	Medium	May 15 to August 15	No Restrictions
	High	May 15 to September 15	No Restrictions
Vehicles			
	Low	May 15 to September 15	No Restrictions
	Medium	May 15 to September 15	No Restrictions
	High	May 15 to September 15	No Restrictions
Aircraft			
	Low	No Restrictions	No Restrictions
	Medium	May 15 to August 15	May 15 to August 15
	High	May 15 to September 15	May 15 to August 15
Other Light/Noise Production			
	Low	May 15 to September 15	No Restrictions*
	Medium	May 15 to September 15	No Restrictions*
	High	May 15 to September 15	No Restrictions*

^{*} Noise or light production in the buffer is restricted if the activity would violate core area restriction on noise or light.

4.6 Protective Measures

This section provides a list of management practices to apply in the AEI.

- No wetland vegetation will be removed outside of developed areas.
- Employ appropriate erosion and runoff controls to reduce soil loss.
- Avoid unnecessary disturbance to vegetation (e.g., excessive parking areas or equipment storage areas, off-road travel, materials storage areas, crossing of streams or washes).
- Avoid removal of vegetation along drainage systems and stream channels.
- Avoid all vegetation removals not absolutely necessary.
- Appropriate erosion controls must be put in place and periodically checked throughout the life of any projects.
- Revegetate all exposed soils as soon as feasible after disturbance to minimize erosion.

5.0 Southwestern Willow Flycatcher AEI Description

5.1 Pajarito Canyon Southwestern Willow Flycatcher AEI

5.1.1 Allowable Habitat Alteration in the Buffer Area

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 Riemer 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 indictor features. If a polygon of modeled habitat contained white fir, indicating a moist wet conifer type habitat, a high canopy closure, and other signs of high habitat quality such as dead logs, moss, or other

areas that could be used as cover by the Jemez Mountains Salamander, then the polygon was marked for retention in the final core habitat. Polygons that did not contain the necessary habitat requirements were omitted.

After the field validation was complete, the final core habitat boundaries were hand digitized using ArcGIS (Environmental Science Research Institute, Redlands, California) by 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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- Yong, W. and D.M. Finch. 1997. Migration of the willow flycatcher along the middle Rio Grande. *Wilson Bulletin* 109:253–68.

APPENDIX

Table A-1. The Percentage of each Food Type Found in Mexican Spotted Owl Food Remains at LANL

Species	Relative Abundance
Neotoma spp.	26.22
Peromyscus spp.	10.22
Microtus spp.	4.44
Gophers	4.89
Bats	5.78
Chipmunks	0.89
Rabbits	12.89
Shrews	1.33
Small Mammal	1.33
Medium Mammal	1.78
Medium Bird	8.00
Small Bird	4.89
Nocturnal Birds	0.89
Reptiles	4.89
Arthropods	11.56

Table A-2. Preliminary Light Measurements in 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

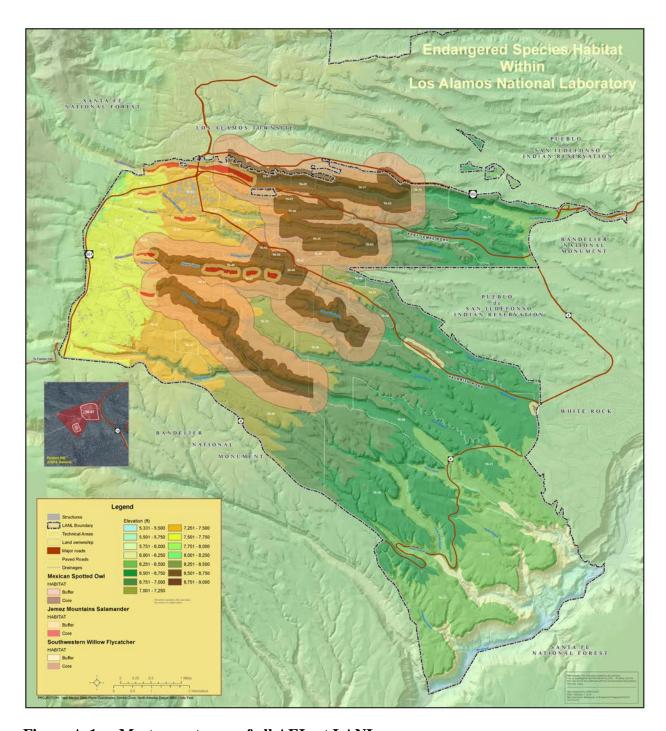


Figure A-1. Most recent map of all AEIs at LANL

TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT

MSGP

IPaC Trust Resource Report

Generated July 27, 2015 07:29 PM MDT



US Fish & Wildlife Service

IPaC Trust Resource Report



Project Description

NAME

MSGP

PROJECT CODE

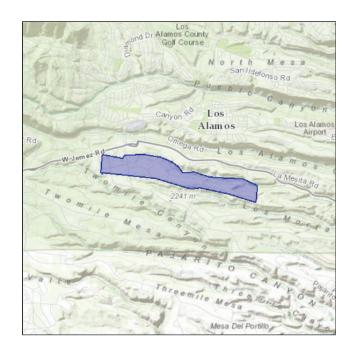
LXATM-TI5EJ-BAJEQ-3NC5E-SOGYTE

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 <u>Endangered Species Program</u> 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 <u>Section 7</u> 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.

Bald Eagle Haliaeetus leucocephalus

Bird of conservation concern

Season: Wintering

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B008

Bendire's Thrasher Toxostoma bendirei

Bird of conservation concern

Season: Breeding

Brewer's Sparrow Spizella breweri

Bird of conservation concern

Season: Migrating

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HA

Brown-capped Rosy-finch Leucosticte australis

Bird of conservation concern

Season: Wintering

Burrowing Owl Athene cunicularia

Bird of conservation concern

Season: Breeding

Cassin's Finch Carpodacus cassinii

Bird of conservation concern

Year-round

Flammulated Owl Otus flammeolus

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DK

Fox Sparrow Passerella iliaca

Bird of conservation concern

Season: Wintering

Golden Eagle Aquila chrysaetos

Bird of conservation concern

Year-round

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DV

Grace's Warbler Dendroica graciae

Bird of conservation concern

Season: Breeding

Juniper Titmouse Baeolophus ridgwayi

Bird of conservation concern

Year-round

Lewis's Woodpecker Melanerpes lewis

Bird of conservation concern

Year-round

Loggerhead Shrike Lanius Iudovicianus

Bird of conservation concern

Year-round

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FY

Mountain Plover Charadrius montanus

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B078

Olive-sided Flycatcher Contopus cooperi

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0AN

Peregrine Falcon Falco peregrinus

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FU

Pinyon Jay Gymnorhinus cyanocephalus

Bird of conservation concern

Year-round

Prairie Falcon Falco mexicanus

Bird of conservation concern

Year-round

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0ER

Swainson's Hawk Buteo swainsoni

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B070

Williamson's Sapsucker Sphyrapicus thyroideus

Bird of conservation concern

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FX

Willow Flycatcher Empidonax traillii

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0F6

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 <u>NWI wetlands</u> 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>U.S. Army Corps of Engineers District</u>.

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

There are no wetlands identified in this project area

ATTACHMENT 15: ENV-CP-QAPP-MSGP

The EPC-CP Quality Assurance Project Plan is in the process of being replaced by EPC-CP-PIP-2101, *NPDES Multi-Sector General Permit*. The current document, ENV-CP-QAPP-MSGP R5, is included in the attachment and will be replaced in the hard copy of the SWPPP once the new document is completed.

ENV-CP-QAPP-MSGP, R5 Effective Date: 11/04/2013 Next Review Date: 11/04/2015



Environment, Safety, Health Directorate

Environmental Protection Division – Compliance Programs Group

Quality Assurance Project Plan

Stormwater Multi-Sector General Permit for Industrial Activities Program

Reviewers:				
Name:	Organization:	Signature:	Date:	
Melanie Lamb	ADESH-OIO, QA Specialist	Signature on File		
Deriv	ative Classifier: Un	classified 🛭 DUSA <u>ENVPRO</u>		
Name:	Organization:	Signature:	Date:	
Ellena Martinez	ADESH-OIO	Signature on File		
	Approval	Signatures:		
Subject Matter Expert:	Organization:	Signature:	Date:	
Holly Wheeler	ENV-CP	Signature on File		
Responsible Line Manager:	Organization:	Signature:	Date:	
Mike Saladen	ENV-CP, Team Lead	Signature on File		
Responsible Line Manager:	Organization:	Signature:	Date:	
	ENV-CP, Group Leader	Signature on File		

CONTROLLED DOCUMENT

This copy is uncontrolled. The controlled copy can be found on the ENV Division Web page.

Users are responsible for ensuring they work to the latest approved version.

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 2 of 40
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History of Revisions

Document Number [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
0	06/03	New Document
1	12/05	Annual review and revision
2	07/07	Annual review, incorporated organizational restructure changes.
3	07/09	Biennial Review and Revision
4	07/09	Biennial Review and Revision
5	10/13	Biennial Review and Revision. New format implemented.

Effective Date: 11/04/2013

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1.0 QUALITY PROGRAM

LANL will comply with the monitoring requirements as specified by the 2008 National Pollutant Discharge Elimination System (NPDES) Stormwater Multi-Sector General Permit for Industrial Activities. Compliance will be demonstrated through the successful implementation of this project plan and applicable procedures.

Los Alamos National Laboratory (the Laboratory) has established a comprehensive stormwater program for its industrial activities. Historically, the Laboratory operated under the NPDES Baseline General Permit and then under the NPDES 1995, 2000, and 2008 Multi-Sector General Permits. The Laboratory submitted its NOI for 2008 coverage in December 2008.

The 2008 MSGP was issued on September 22, 2008 and became effective on September 29, 2008.

The purpose of this project plan is to ensure compliance with the following:

- 2008 NPDES Multi-Sector General Permit (MSGP) and the Clean Water Act (CWA)
- DOE Order 450.1, *Environmental Protection Program*, and DOE Order 5400.5, *Radiation Protection of the Public and Environment*, which establish environmental protection program policies, requirements, and responsibilities

The Environmental Protection, Environmental Compliance Programs (ENV-CP) Water Quality Team has been tasked with overseeing institutional stormwater compliance related activities at the Laboratory.

1.1 QUALITY PROGRAM PURPOSE

This Quality Assurance Project Plan (QAPP) describes the policies and requirements that ensure MSGP activities are conducted in a consistent, agreed-upon manner.

This QA Project Plan describes the policies and requirements that ensure the MSGP processes are conducted in a consistent, agreed-upon manner. Drivers for the quality plan include:

- o DOE Order 414.1C, Quality Assurance
- o SD330, LANL Quality Assurance Program

This QA Project Plan (QAPP), including implementing procedures, is a sub-tier document to the SD330, *LANL Quality Assurance Program*. The following documents provide requirements to ensure that the MSGP Program is operated in accordance with established plans and procedures:

- SD330, LANL Quality Assurance Program
- QA Project Plan for the MSGP (this document)
- Implementing procedures

1.2 ORGANIZATION

ENV-CP is responsible for compliance oversight of the Laboratory's MSGP coverage. The Group is organized by teams under the line management direction of the Group Leader. Teams are crossfunctional and focus on specific Laboratory water quality responsibilities, deliverables, or

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products. Teams are guided by Team Leaders who have the responsibility to assure the program is completed and properly implemented.

The Team Leader coordinates the project and reports to the ENV-CP Group Leader. The Project Lead implements program oversight, coordinates contractor efforts (if there are any), and reports to the Team Leader. A QA Specialist is assigned to work for the Team Leader to provide quality assurance assistance, advice, and review. In addition, representatives from other groups may participate and contribute to this team as subject matter experts for project activities. The project organization is shown in Attachment 1.

Applicable regulatory drivers include the following:

- Clean Water Act (CWA)
- 2008 NPDES Multi-Sector General Permit (MSGP)
- DOE Order 450.1, Environmental Protection Program
- DOE Order 5400.5, Radiation Protection of Public and Environment
- P401, Procedure to Identify, Communicate, and Implement Environmental Requirements

1.3 RESPONSIBILITIES

The following table lists specific responsibilities:

Who	What
Group Leader	Assure that qualified staff complies with regulatory requirements associated with the MSGP.
Project Lead	Ensure that MSGP-related activities are performed in accordance with the requirements specified in this plan.
ENV-CP Staff	Perform MSGP-related activities as assigned by the Team Leader or Project Leader

2.0 PERSONNEL DEVELOPMENT

Qualified team members will be hired and trained as prescribed in ENV-DO-QP-115, *Personnel Training*. Minimum training requirements for ENV personnel are described in the ENV Division Qualification Standards. The LANL Human Resources Division maintains documentation of education qualification. Required MSGP qualifications and training plans are listed below.

2.1 MSGP CURRICULA

The MSGP Program requires personnel with the following training requirements:

MSGP Inspectors

Curricula 10697 ENV-RCRA MSGP Inspector
Item 43337 ENV-CP-QAPP-MSGP
Item 54892 ENV-RCRA-QP-022 MSGP Stormwater Corrective Actions

	Stormwater MSG	P for Industrial	Activities	Program
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Item 42415 ENV-DO-QP-101 Environmental Reporting Requirements for Releases or Events

Item 42547 ENV-DO-QP-111 Reporting Environmental Releases to Pueblo Governments

Item 40708 ENV-DO-QP-108 Preparation of External Correspondence for Review and Approval

Item 43172 ENV-DO-QP-112 Coordinating Regulatory Inspections

Item 42891 ENV-DO-QP-113 Tracking Issues and Actions

Item 43805 ENV-DO-QP-114 Logbook Use and Control

Item 45777 ENV-DO-QP-100 General Field Safety

Curricula 131 Field Worker Training Requirements

Item 43562 or 3583 or 16585 CPR/AED: LANL Workplace

Item 3574 or 13264 First Aid

MSGP SWPPP Preparers

Curricula 7814 ENV-RCRA MSGP SWPPP Preparer

Item 43337 ENV-CP-QAPP-MSGP

Item 56593 ENV-RCRA-QP-044 Preparing Storm Water Discharge Monitoring Reports (MDMRs)

for the NPDES Multi-Sector General Permit

Item 40708 ENV-DO-QP-108 External Correspondence

Item 43172 ENV-DO-QP-112 Coordinating Regulatory Inspections

Item 42891 ENV-DO-QP-113 Tracking Issues and Actions

Item 43805 ENV-DO-QP-114 Logbook Use and Control

Item 45777 ENV-DO-QP-100 General Field Safety

Curricula 51 ENV-RCRA Design Engineer

Item 44269, COE Review of LANL Produced Design Documents, AP-341-620

Item 44266, COE System Design Descriptions, AP-341-61

Item 44263, COE Engineering Drawings and Sketches, AP-341-608

Item 44261, COE Calculation, AP-341-605

Item 44258, COE Requirements and Criteria Document, AP-341-602

Item 44257, COE Functions & Requirements Document, AP-341-601

Item 43658, CORE Engineering Overview

Item 55428, COE Management Level Determination, AP-341-502

Item 54168, P342 Engineering Standards

Item 47029, COE LANL Review of Design by External Agencies, AP-341-622

Item 43666, Engineering Design Management

Item 43663, Engineering Technical Baseline

Item 44225, COE Evaluation of Vendor Information, AP-341-701

MSGP Visual Assessors

Curricula 10698 ENV-RCRA MSGP Visual Assessor

Item 43337 ENV-RCRA-QAPP-MSGP

Item 50493 ENV-RCRA-QP-064 MSGP Storm Water Visual Assessments

Item 42415 ENV-DO-QP-101 Environmental Reporting Requirements for Releases or Events

Item 42547 ENV-DO-QP-111 Reporting Environmental Releases to Pueblo Governments.

Item 40708 ENV-DO-QP-108 External Correspondence

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Item 43172 ENV-DO-QP-112 Coordinating Regulatory Inspections
Item 42891 ENV-DO-QP-113 Tracking Issues and Actions
Item 43805 ENV-DO-QP-114 Logbook Use and Control
Item 45777 ENV-DO-QP-100 General Field Safety

Curricula 131 Field Worker Training Requirements Item 43562 or 3583 or 16585 CPR/AED: LANL Workplace Item 3574 or 13264 First Aid

2.2 MSGP INSPECTOR QUALIFICATIONS

Inspections:

- Post high school education or experience in engineering or environmental science or a related field; or industrial site field experience involving stormwater pollution prevention.
- 2 years experience of completing MSGP inspections or 1 year MSGP inspection experience with the Certified Inspector of Sediment and Erosion Control (CISEC) certification.
- 6 months knowledge of LANL facility operations.
- Demonstrated ability, as determined by the Multi-Sector General Permit Project Lead and/or Water Quality Team Leader, to successfully and effectively evaluate and identify the following at industrial sites:
 - o Conditions and activities that could impact stormwater quality at the facility.
 - o Inadequate or ineffective BMPs.
 - o Required modification or maintenance of existing BMPs.
 - o Locations requiring new or additional BMPs.
 - o Potential pollutant sources associated with the facility.
 - o Appropriate and correct site stabilization measures.
- Demonstrated ability, as determined by the Multi-Sector General Permit Project Lead and/or Water Quality Team Leader, to evaluate the compliance status of each industrial facility and document identified issues during an inspection.
- Demonstrated ability, as determined by the Multi-Sector General Permit Project Lead and/or Water Quality Team Leader, to properly and effectively complete inspection reports, including the ability to perform the following:
 - o Prepare reports in a clear, concise manner, identifying site conditions and issues.
 - o Write legibly and describe conditions clearly and accurately.
 - o Use proper spelling and grammar.
 - o Complete the MSGP Routine Inspection Report forms accurately.
 - o Accurately enter findings into the Corrective Actions Report database.
- Conduct inspections in a professional manner.
- Be a member of, or contractor supporting, ENV-RCRA or ENV Division.

2.3 MSGP SWPPP PREPARER QUALIFICATIONS

SWPPP Preparation:

One of the 2 criteria below must be satisfied:

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- BS degree or experience in engineering, environmental science, or related field, with a
 background involving stormwater pollution prevention and regulatory compliance relating to
 MSGP sites and a 1 year minimum of LANL facility operations knowledge and 1 year
 experience of completing MSGP inspections; or
- Certified Professional in Erosion and Sediment Control (CPESC) or Professional Engineer (PE) with a demonstrated background in stormwater management, sediment and erosion control, and regulatory compliance.

In addition to:

- Demonstrated ability, as determined by the Multi-Sector General Permit Project Lead and/or Water Quality Team Leader, to:
 - Prepare SWPPPs per LANL format and in compliance with NPDES MSGP requirements.
 - o Identify and specify appropriate BMPs and stabilization measures.
 - o Identify potential pollutant sources associated with the facility.
 - o Perform necessary calculations to meet regulatory requirements.
 - o Prepare a site map.
 - o Be a member of, or contractor supporting, ENV-CP or ENV Division.

5.4 MSGP VISUAL ASSESSOR QUALIFICATIONS

Quarterly Visual Assessments:

- Education or experience in engineering, environmental science, or a related field; or industrial site field experience involving stormwater pollution prevention; and
- Completed ENV-RCRA training on how to collect and evaluate visual assessment; and
- Demonstrated ability, as determined by the Multi-Sector General Permit Program Lead and/or Water Quality Team Leader, to:
 - o Collect quarterly visual samples at the designated outfall.
 - o Complete the applicable portions of the MSGP Quarterly Visual Assessment Form.
 - Have working knowledge of the regulatory requirements in Section 4.2 of the MSGP.

5.5 TRAINING RESPONSIBILITIES

All personnel performing MSGP project-related work are required to obtain appropriate training prior to performing work governed by a procedure. Training for all project personnel will be performed and documented in accordance with ENV-DO-QP-115, *Personnel Training*.

The following table lists specific responsibilities regarding training requirements.

Who	What
Group Leader	Ensure project personnel meet all Laboratory training requirements.
Program Lead	Establish and document job descriptions for each position within the MSGP Project.
	Ensure all project personnel have the appropriate level of education,

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	experience, and training.
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3.0 QUALITY IMPROVEMENT

The MSGP Project subscribes to the principles of problem prevention and continuous improvement. The Project Lead is committed to evaluating improvement opportunities identified by trending and reporting.

The Project Lead provides verbal and written updates, as needed, to the Team Leader and Group Leader to keep group management apprised of the focus of the MSGP Project activities and to address any shortcomings that may be identified.

3.1 CORRECTIVE ACTIONS WITHIN ENV-RCRA

Corrective actions for all ENV-RCRA programs and projects are initiated, tracked, corrected, and documented according to P330-6 *Nonconformance Reporting*, P322-4 *Laboratory Performance Feedback and Improvement Process*, *SD330*, *Los Alamos National Laboratory Quality Assurance Program*, and Division/Group procedures.

3.3 QUALITY IMPROVEMENT RESPONSIBILITIES

The following table lists specific responsibilities for quality improvement:

Who	What
Project Lead	Monitor program performance and ensure issues are corrected in a timely manner.
ENV-CP Staff	Identify opportunities for process improvement, health and safety enhancement, environmental protection, or other improvements of the program's operations.
	Discuss the identified opportunities with the Project Lead.
	Ensure issues are reported and corrected in a timely manner.

4.0 DOCUMENT CONTROL/RECORDS MANAGEMENT

The program lead, at least one reviewer, and the Group Leader will approve all revisions to this plan. Revisions to the plan will be provided to the QA Specialist. This plan will be reviewed and revised (if necessary) biennially.

This document will be controlled under the organization's document control system (ENV-DO-QP-106, *Document Control*). Controlled copies of ENV documents are located on the Internet: http://int.lanl.gov/orgs/env/rcra/qa.shtml, all other copies are uncontrolled.

Procedures will be developed as necessary and in accordance with ENV-DO-QP-105, *Preparation, Review, and Approval of Procedures*.

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Phone calls, email, or fax communications will be documented and controlled if the content provides direction or results in decisions.

4.1 PROGRAM RECORDS

The number, type, and detail of all records to be kept will provide sufficient information to allow an individual with equivalent education and training to verify or reconstruct the results. Implementing procedures specify the records, forms, logbook entries, or other information to be kept as documentation of the performance of the procedure.

Records to be kept in the ENV-CP records system include the following:

- Copy of the Multi-Sector General Permit
- Annual Site Compliance Evaluation reports
- Corrective Action Reports
- Reports and certifications required by MSGP
- Records of all data used to complete MSGP Notice of Intent
- Discharge Monitoring Reports

Records to be kept by the Deployed Environmental Professional assigned to the FOD in which the industrial facility resides includes the following:

- Copies of Stormwater Pollution Prevention Plans
- Reports and certifications required by MSGP
- Routine Inspection Forms
- Supporting analytical data reports including Visual Assessment Forms
- Corrective Action Reports
- Discharge Monitoring Reports
 - Annual Site Compliance Evaluation reports

All ENV-CP records will be maintained and available (after the deadline for submittal as given in applicable procedures) for auditing in the records center at ENV-CP (ENV-DO-QP-110, *Records Management*). Records will be archived in compliance with Laboratory and DOE requirements for records retention, storage, and management.

4.2 PROGRAM RECORDS RESPONSIBILITIES

The following table lists specific responsibilities for program records management:

Who	What
Team Leader	Ensure QAPP meets minimum specifications for documentation and records of the SD330, Los Alamos National Laboratory Quality Assurance Program
Program Lead	Conduct annual review of records to ensure compliance with project requirements.

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4.3 ELECTRONIC MEDIA

The project will utilize electronic means as necessary to maintain data and perform calculations on these data. Electronic means will not however replace paper copies. All records that must be maintained to meet the requirements of the Permit will be kept in hard copy as the official record.

4.4 DATABASES

Analytical data will be maintained in the LANL Water Quality Database (WQDB). Security, verification, and validation of data are maintained in accordance with LANL procedures.

<u>Security</u> -- ENV data will be maintained electronically in a secure manner and will be protected from loss by being maintained as part of an official dataset that is backed up at least weekly.

<u>Verification of data</u> -- All ENV data, either electronic or hardcopy must undergo a verification and validation process that includes the following:

Verification

- Paper deliverables match electronic data that are stored in an official dataset. Paper deliverables include:
 - chain of custody for sample data
 - field log, if applicable, for sample data
 - data packages for analytical data
 - documentation packages for supporting data (e.g., geographic information system)
- All hand-entered data have been verified by a person other than the individual performing the entry
- Electronic uploads of data (e.g., electronic data deliverables) have been spot checked (at least 10%) to ensure the upload performed as expected
- Hard copy supporting information (e.g., data packages, chains of custody, validation reports, etc.) is evaluated for completeness, archived, and available for audit

<u>Validation</u> --analytical data validation is the responsibility of the EP Directorate. The process will include the following:

- Validate that sample and quality assurance/quality control data and information meet contract specifications
- Assign validation flags, as appropriate
- Identify the analytical supplier
- Identify the analytical method

<u>Verification of calculations</u> -- A person other than the person who generated the query will review for accuracy all compliance related calculations performed in a database through queries. This review will be documented and forwarded to the appropriate record series.

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Spreadsheets:

<u>Backups</u> -- All spreadsheets used to hold data and generate reports to be used in demonstrating compliance will be maintained in a secure location. The preferred location is on the Group server. Spreadsheets will be backed up at least weekly.

<u>Verification of data</u> -- All compliance-related data uploaded into a spreadsheet will be verified to be accurate against the original paper copy. Data that are uploaded through electronic means will undergo a 10% verification. Data that are uploaded through manual means will undergo a 100% verification. Someone other than the data entry person must perform the 100% review. This review will be documented and forwarded to the appropriate record series.

<u>Verification of calculations</u> -- A person other than the person who generated the spreadsheet will review for accuracy all compliance-related calculations performed in a spreadsheet. This review will be documented and forwarded to the appropriate record series. Modifications to the function of these spreadsheets will also be verified in this manner.

<u>Software control</u> -- The integrity of spreadsheets will be ensured by limiting access to these spreadsheets to only trained, authorized personnel. Additionally, at least once per year, the function of the spreadsheets will be verified by hand calculations. Documentation of this review will be forwarded to the appropriate record series.

4.4 IMPLEMENTATION RESPONSIBILITIES

The following table lists specific responsibilities:

Who	What
Program Lead	Regularly assess data integrity methods used by MSGP personnel.

5.0 PLANNING AND PERFORMING WORK

Work conducted under this program ensures compliance with the 2008 Multi-Sector General Permit; the Clean Water Act; and DOE Orders 450.1, *Environmental Protection Program*, and 5400.5, *Radiation Protection of the Public and Environment*.

Work that contributes to achieving the quality specifications of the MSGP deliverables will be planned and documented as described in this document and implementing procedures.

Work will be performed according to applicable plans and implementing procedures. The team leader will provide first line supervision of personnel assigned to project tasks to ensure work is performed to achieve project quality specifications. Before changing a work process that affects the project quality specifications, the team leader will ensure the same level of planning and review as used in the initial project planning steps.

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5.1 WORK PROCESSES

All work should be regarded as a process. Each process consists of a series of actions and is planned and carried out by qualified workers using specified work processes and equipment under administrative, technical, and environmental controls established by management to achieve an end result. Workers are the best resource of contributing ideas for improving work processes and will be involved in work process design, process evaluation, and providing the feedback necessary for improvement.

All work is planned and performed using the principles of Integrated Safety Management and in compliance with P300, *Integrated Work Management for Work Activities*.

5.3 WORK PERFORMANCE

Management should ensure that the following are clearly identified and conveyed to workers prior to beginning work:

- customer and data requirements for the work and final product;
- acceptance criteria applicable to work and final product;
- hazards associated with the work;
- technical standards applicable to work and final product; and
- safety, administrative, technical, and environmental controls to be employed during the work.

The work processes used to meet the regulatory requirements and the requirements of this plan can be divided as follows:

- Stormwater Pollution Prevention Plans (Multi-Sector General Permit Section 5.0)
- Inspections (Multi-Sector General Permit Section 4.0)
- Monitoring (Multi-Sector General Permit Section 6.0)
- Discharge Monitoring Reports (Multi-Sector General Permit Section 7.1 Reporting Monitoring Data to EPA)
- Best Management Practices (Multi-Sector General Permit Section 2.0 –Control Measures)
 - Reporting and Recordkeeping (Multi-Sector General Permit Section 7.0)

5.4 STORMWATER POLLUTION PREVENTION PLAN

Stormwater Pollution Prevention Plan (SWPPP) development and implementation by the regulated industrial facility is required for MSGP compliance (refer to Section 8.0 of the 2008 MSGP for Sector-Specific Requirements for Industrial Activity and Appendix D, Sectors of Industrial Activity Covered by This Permit). 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

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action) requirements identified in the 2008 MSGP permit. The SWPPP is a written assessment of potential sources of pollutants in stormwater runoff and control measures that will be implemented at the specific industrial facility to minimize the discharge of pollutants in runoff from the site. These control measures include site-specific Best Management Practices (BMPs), inspections, employee training, and reporting. The 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 requiring Facility Management support in implementation, improvement, and revision of the Plans.

5.4.1 DISCHARGE MONITORING REPORTS

The Laboratory is required to submit analytical results of stormwater monitoring and to keep the results with the facility specific SWPPP. The Laboratory must certify and submit analytical monitoring results obtained from each facility specific sampling location (i.e., the sampling station located at the monitored outfalls) associated with industrial activity on a Discharge Monitoring Report (DMR) form or use it to report any of the following:

- no discharge for all outfalls for a specific monitoring period;
- the industrial facility status has changed to inactive and unstaffed;
- the facility status has changed to active; or
- no further pollutant reductions are achievable for all outfalls and for all pollutants (see Section 6.2.1.2 of the 2008 MSGP).

5.4.2 ANNUAL SITE COMPLIANCE EVALUATION REPORT

The Laboratory is required to submit an annual report (Attachment 2) to the Environmental Protection Agency (EPA) that includes the findings from the comprehensive site inspection and any corrective action documentation. The documentation must include the following:

- identification of the condition triggering the need for corrective action review;
- date and description of the problem identified;
- summary of the corrective action taken or to be taken;
- notice of whether SWPPP modifications are required as a result of the discovery or corrective action;
- date corrective action was initiated; and
- date corrective action was completed or is expected to be completed.

The following table lists responsibilities:

Who	What
Project Lead	Ensure that SWPPP requirements are performed in accordance with the MSGP.

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Facility Management Support	Implement SWPPP requirements as recommended by the Project
	Lead.
ENV-CP Staff and Deployed	Assure SWPPP implementation as required by MSGP.
Environmental Professionals	
(DEPs)	
DEPs	Develop, modify, and update SWPPPs and assist facility personnel with SWPPP implementation.

5.5 Inspections

The MSGP requires periodic inspection of industrial processes and maintenance of (BMPs) to assure effectiveness of control measures. The Laboratory has implemented a quarterly or monthly inspection process (depending on the industrial facility) to support this determination. A copy of the Routine Inspection Form is provided in Attachment 3.

5.6 STORMWATER MONITORING

Benchmark stormwater monitoring is the required mechanism for determining the effectiveness of corrective actions and meeting the requirements of the MSGP. Refer to Attachment 4, *MSGP Facilities and Stormwater Monitored Outfalls Associated with Industrial Activity 2011*, for a list of Laboratory sites that have monitoring requirements. Laboratory management has made an investment in time and materials, in addition to a commitment to comply with the 2008 MSGP Permit. All stormwater monitoring is conducted by ENV-CRP personnel. The MSGP Project currently has a network of 23 monitoring stations. Considerations to be used for MSGP stormwater monitoring development decisions will include MSGP requirements, new state water quality standards, Administrative Authority requests, or new permit requirements. Stormwater monitoring will be conducted as specified in the MSGP.

Effluent Limitations stormwater monitoring is required for the following type of facility of LANL:

Regulated	Parameter	Effluent	Monitoring	Sample Type
Activity		Limit	Frequency	
Discharges from asphalt emulsion facilities	Total Suspended Solids	23.0 mg/L daily max. 15.0 mg/L, 30-day avg.	1/year	grab
	pН	6.0-9.0 s.u.	1/year	grab
	Oil and Grease	10.0 mg/L 30-day avg.	1/year	grab

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This determination was made in accordance with Section 1.1.2.4 of the MSGP. The TA-60 Asphalt Batch Plant meets the criteria for effluent limitations monitoring in this section. Exceedances of the effluent limits in this table require immediate action. In addition, if follow-up monitoring after corrective actions also exceeds an effluent limit guideline, an Exceedance Report for Numeric Effluent Limits must be submitted to EPA no later than 30 days after lab results have been received and verified.

Impaired Waters stormwater monitoring is required for discharges made to an impaired water. The canyons within and surrounding Los Alamos National Laboratory are declared as Impaired Waters by the New Mexico Environment Department. The pollutants vary from canyon to canyon and are listed in Attachment 5, *Pollutants Under Impaired Waters Monitoring*. 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.

Visual assessments are also required by the MSGP and are an important tool for collecting information to determine the effectiveness of controls in preventing potential contaminants from migrating off Laboratory property. Accordingly, field personnel must 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 will document all observations that are required by the MSGP (see ENV-RCRA-QP-064, *Multi-Sector General Permit Storm Water Visual Inspections*).

The Laboratory's MSGP permit requires stormwater quality monitoring to evaluate compliance with water quality standards and evaluation against benchmarks. Parameters sampled at the monitoring stations are selected based on permit requirements and the results of the previous year.

Four stormwater samples per year are required under the 2008 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 Section 6.1.5 of the MSGP). Sample locations are listed in Attachment 4, *MSGP Facilities and Stormwater Monitored Outfalls Associated with Industrial Activity 2011*, and collection will be conducted in accordance with LANL and NPDES Permit requirements and the current year MSGP Sampling and Analysis Plan.

Stormwater samples are used to demonstrate compliance with water quality standards and requirements to evaluate results against benchmark parameters (Attachments 5 and 6). Any persons involved in the preparation, retrieval, and analysis must maintain positive control of samples at all times until sample disposal. ENV-RCRA personnel will follow guidance in the Associate Directorate for Environmental Programs (ADEP) document ENV-WQH-QP-029, *Creating and Maintaining a Chain of Custody*, as well as, ENV-RCRA-QP-047, *Inspecting Storm Water Runoff Samplers and Retrieving Samples*, and ENV-RCRA-QP-048, *Processing MSGP Storm Water Samples*.

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Chain of custody is maintained during:

Activity	Responsibility
Sample collection and preparation	All persons (other than analytical personnel) performing sample preparation and collection will be trained to sample collection procedures and must adhere to the chain of custody requirements therein.
Analysis	Analytical laboratories performing sample analysis will maintain sufficient procedures to ensure positive control of samples as specified in the existing Statement of Work.
Storage/ disposal	Analytical laboratories will maintain retained samples and/or sample portions under chain of custody until reanalysis, or ultimate disposal.

The LANL Sample Management Office (SMO) will be the central point for all analytical laboratory selection, evaluations, sample submittal, and data return. The SMO will evaluate potential analytical laboratories, prepare analytical statements of work that include requirements, and arrange contracts with selected laboratories for analysis of all samples. The SMO will accept samples from field collection personnel, process the sample, ship the samples to the off-site analytical laboratories, and receive the data packages from the laboratories.

All analytical data will be received from analytical laboratories in electronic format and uploaded into a database. All received data will be checked for completeness and adherence to contract requirements. After uploading, all data will undergo verification and validation (V&V) 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 will be verified and validated by the SMO when field personnel deliver samples to the SMO.

If significant V&V issues are identified, results will be forwarded to and discussed with the responsible project leads.

Data issues that result from procedural failures, personnel errors, or other failures to follow requirements will be documented as issues and corrected according to ENV-DO-QP-113, *Tracking Issues and Actions*.

The following table lists responsibilities:

Who	What
Project Lead	Ensure that all project monitoring requirements are performed in accordance with the MSGP.
	Review and update the MSGP Sampling and Analysis Plan annually.

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	When complete, communicate findings to the team members for implementation. Make appropriate arrangements with the SMO to accept, process, and submit samples to an analytical laboratory for required analyses as specified in the SAP.
MSGP Water Quality Compliance Personnel	 Implement monitoring program as required by the MSGP Project Lead. Conduct stormwater sampling in accordance with the MSGP Sampling and Analysis Plan and applicable procedures. Ensure procedures for sample handling and control during sample preparation and retrieval are followed.
Sample Management Office	 Develop Statements of Work (SOW) for all analytical laboratories that perform analytical work for the MSGP project in accordance with P840-1, Procurement Quality. Ensure analytical laboratories comply with the DOE's SOW. Conduct an annual audit of the laboratory to ensure compliance with the SOW. Approve Statements of Work for analytical laboratories that are contracted to analyze water samples. Approve analytical laboratories that are contracted to analyze water samples for regulatory compliance purposes. Accept samples and submit them to and approved analytical laboratory for analysis. Track progress of samples at the analytical laboratory and resolve issues with sample analysis. Receive data packages from the analytical laboratory and enter data into the database. Provide the MSGP Project Lead with monthly invoice updates. Perform V&V of field data submitted and uploaded from forms when samples are submitted to the SMO.
Operations Integration Office (OIO), Systems Integration (SI)	Perform V&V of data packages uploaded by the SMO or send data packages to a subcontractor company for independent V&V.

5.7 DISCHARGE MONITORING REPORTS

The Laboratory is required to submit analytical results of stormwater monitoring and to keep the results with the specific SWPPP. The Laboratory must submit analytical monitoring results obtained from each monitoring station associated with industrial activity on a MSGP Discharge Monitoring Report (MDMR) form (one form must be submitted for each storm event from which, a sample was collected).

MDMRs shall be written in accordance with ENV-RCRA-QP-044, *Preparing Storm Water Discharge Monitoring Reports (MDMRs) for the NPDES Multi-Sector General Permit.*MDMRs shall be submitted to EPA within 30 calendar days of receiving validated

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analytical results. Refer to the DMR language under the SWPPP Section above for additional requirements.

Site analytical requirements are defined by the industrial activity in the MSGP permit. All MSGP analytes applicable to LANL are consistent with the requirements of 40 CFR Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*.

Sample analytical requirements vary by site depending on the industrial activities performed at the site. Refer to Attachment 5 for a list of analytes by industrial sector. If an insufficient quantity of sample is available, then sample collection will be prioritized at that location for future events. Additional samples may be collected to meet permit requirements.

ENV-RCRA shall refer to the requirements of the 2008 Multi-Sector General Permit, and the most current MSGP Sampling and Analysis Plan to determine the priorities of required analyses.

The following table lists responsibilities:

Who	What
Project Lead	 Ensure implementing procedures for sample analyses are used. Ensure that MDMRs are submitted to EPA and NMED in accordance with the MSGP.
MSGP Water Quality Compliance Personnel	Assure MDMRs are completed and certified as required by the MSGP and have received a full quality assurance review.

5.8 ADVERSE WEATHER CONDITIONS AND CLIMATES WITH IRREGULAR STORMWATER RUNOFF

Section 4.2.3 of the 2008 MSGP allows the industrial facility to take a substitute sample during the next qualifying storm event when adverse weather conditions prevent the collection of samples during a specific quarter. 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. Documentation of the rationale for no visual assessment for the quarter must be included in the facility specific SWPPP.

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, LANL has identified an alternative monitoring period of four quarters as follows for each calendar year.

April 1-May 31

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- June 1-July 31
- August 1-September 30
- October 1-November 30

The following table lists specific responsibilities.

Who	What
Project Lead	Ensure that the monitoring schedule is documented in facility specific SWPPPs and provided to EPA on the MDMRs.

5.9 REPORTING AND RECORDKEEPING

All monitoring data shall be collected in accordance with the requirements specified in the 2008 MSGP. LANL will submit monitoring results to EPA within 30 days of receiving validated laboratory results. The address for submittal of monitoring results is as follows.

U.S. Environmental Protection Agency Office of Water, Water Permits Division Mail Code 4203M, ATTN: MSGP Reports 1200 Pennsylvania Avenue, NW Washington, D.C. 20460

LANL shall keep 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 2008 MSGP)
- Additional documentation requirements as identified in Section 5.4 of the MSGP
- All reports and certifications required by the MSGP
- Monitoring data
- Records of all data used to complete the NOI.

The following table lists specific responsibilities:

Who	What
Project Lead	Periodically audit MSGP records to ensure documentation of compliance is being retained.
Deployed Environmental Professionals	Retain records as required by the MSGP for industrial facilities located in their FOD.

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5.10 BEST MANAGEMENT PRACTICES

It is critical that the Laboratory be able to effectively inspect and maintain the Best Management Practices that have been installed at various locations. Quarterly inspections must be completed and provided to the Project Lead for inclusion into the records system. In addition, the Project Leader conducts a Comprehensive Annual Site Inspection and writes a report to document the status of BMPs and other identified corrective actions. This report is sent to 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.

The following table lists responsibilities.

Who	What
Project Lead	Assist facility personnel and Deployed Environmental Professionals with implementation, inspection, and maintenance of BMPs at MSGP facilities.
Facility Management Support	 Coordinate with Project Lead and provide funding as needed to install, inspect, maintain and implement identified BMPs. Certify the corrective actions identified by the Project Lead and/or facility personnel (or their representatives) for their individual facilities in the Annual Report.

5.11 INFORMATION MANAGEMENT

The Water Quality Database is a database information system designed in part to support the information management (IM) needs of the Laboratory's MSGP. MSGP support includes stormwater discharge monitoring reporting, Geographic Information System (GIS) development, and other IM activities as needed.

The following table lists responsibilities:

Who	What
Project Lead	Coordinate with IM support personnel to meet regulatory requirements.

5.12 RESPONDING TO WATER QUALITY EXCEEDANCES

The identification of a pollutant source(s) contributing to a water quality exceedance will be addressed through the creation of a corrective action that is entered into the Corrective Acton

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Report database in accordance with ENV-DO-QP-113, *Tracking Performance Feedback and Actions* and *ENV-RCRA-QP-022*, *MSGP Stormwater Corrective Actions*. Federal stormwater regulations implemented under the Laboratory's MSGP (40 CFR 122, EPA Administered Permit Programs: The National Pollutant Discharge Elimination System) require that corrective action be taken if exceedances of water quality standards or MSGP numeric effluent limits are identified. Corrective actions are typically accomplished by modifying, as appropriate, existing BMPs and SWPPPs.

When a water quality exceedance occurs, the Laboratory will submit the data on the required MDMRs, investigate the occurrence, and document corrective actions.

When an exceedance of the MSGP benchmark parameters is detected, the Project Lead will assure the analytical data is reviewed, notify appropriate SWPPP owners, and recommend and track corrective actions where required.

The following steps lead to corrective actions:

STEP	Action
1	Establish that an analytical result from a location is valid and has exceeded a standard or MSGP benchmark.
2	Evaluate and demonstrate that the analyte is of LANL origin, if possible.
3	Determine the source and assign responsibility for the corrective action.
4	Develop a corrective action plan.

The following table lists responsibilities:

Who	What
Project Lead	 Assure that analytical data is reviewed and accurate. Notify appropriate SWPPP owners, Laboratory management, and Deployed Environmental Professionals. Develop a corrective action plan. Follow up with corrective actions if required. Track corrective actions.
Facility Management and DEP	 Review analytical data with Project Lead and provide input into a possible corrective action necessary to improve water quality where needed. Evaluate and improve BMPs in accordance with site conditions, industry standards, and manufacturer

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recommendations.

5.13 Instrumentation and Equipment

Compliance will be tracked by performing inspections of samplers and other associated equipment, inspecting BMPs, and conducting annual site compliance evaluations. Adequate records will be maintained to demonstrate the operating history of essential instrumentation and equipment.

LANL will properly operate and maintain all systems of monitoring and control and related appurtenances which 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. All technical work that depends upon the accuracy of data will be performed using equipment for which the calibration status and limits of accuracy are known and controlled.

Field team personnel will calibrate and perform maintenance procedures on all monitoring and analytical field instruments to ensure accuracy of measurements and will maintain appropriate records of such activities. All field calibrations will be documented as prescribed by procedures or manufacturer's instructions.

The following table lists specific responsibilities.

Who	What
Project Lead	Ensure data are collected and equipment is operated and maintained in accordance with project requirements.
	Provide equipment maintenance and calibration specifications and ensure MSGP Water Quality Compliance Team personnel operate and conduct field activities in accordance with implementing procedures and specific work orders.

6.0 DESIGN

Design activities will be conducted and reviewed in accordance with PD340, *Conduct of Engineering* and P341, *Engineering Process Manual*.

Design standards under this program include, but are not limited to temporary and permanent BMPs, corrective action measures, and stormwater monitoring support.

Design inputs will be specified and approved on a timely basis for making design decisions. Inputs will contain the level of detail required to permit the performance of design activities correctly.

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Formal design reviews, including design verifications and evaluation of design changes, will be conducted to ensure that the design input is correctly incorporated into the design output. Changes to design will undergo the same review as the original design.

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.

The following table lists responsibilities.

Who	What
Project Lead	 Provide input to the design process in accordance with appropriate standards, requirements, and implementing procedures.
	 Determine the qualifications required to perform a review of design documents.
	 Identify a resource with skills, knowledge, ability, training, and certifications required to complete the review of the facility engineering design documents.
	Communicate the results of the review to the requestor.
ENV-CP Staff	Review design documents and requests as assigned.
	Inform the Project Lead of concerns regarding the facility engineering designs.

7.0 PROCUREMENT

Items and services required for this process are commercial grade in nature and no special procurement requirements or needs are necessary. All procurements will be made in accordance with P840-1, *Procurement Quality*. For items and all services for which special requirements are necessary, the Project Lead and project members will identify such items or services.

The following table lists responsibilities:

Who	What
Group Leader	Ensure all procurements are conducted in accordance with P840-1.
Project Lead	Recommend to Group Leader contracting items and services. Develop acceptance criteria.
ENV-CP Staff	Identify potential suppliers of products or services necessary to complete work activities that must be procured from outside ENV-RCRA.

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8.0 INSPECTION AND ACCEPTANCE TESTING

Any materials or services will be inspected and/or tested prior to acceptance for use in this project in accordance with P330-8, *Inspection and Test for Acceptance*. Most supplies used during performance of project activities are commercial grade in nature and require no special acceptance practices or procedures.

The following table lists responsibilities:

Who	What
Group Leader	Ensure procedures for inspection meet SD330, Los Alamos National Laboratory Quality Assurance Program requirements.
Project Lead	Verify that all materials and services meet acceptance criteria.
ENV-CP Staff	Follow established procedures for inspection and acceptance testing.

9.0 MANAGEMENT ASSESSMENT

The ENV-CP Group conducts internal management assessments of projects and programs in accordance with the requirements in P328-3, *Management Assessment* and P328-4, *Management Observation and Verification*. Assessments of the program are documented and filed as records.

When violations of requirements are found during a management assessment, a nonconformance report is initiated in accordance with P330-6, *Nonconformance Reporting* for nonconforming items.

Nonconforming services or processes are tracked and documented in accordance with P322-4, *Issues and Corrective Action Management*.

The following table lists responsibilities:

Who	What
Group Leader	Ensure management self-assessments for the MSGP program are conducted as specified in implementing procedures.
Project Lead	Ensure program management self-assessments are conducted.

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10.0 INDEPENDENT ASSESSMENT

Independent assessments are those assessments conducted by organizations external to ENV-RCRA. 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*.

Periodically audits/assessments will be conducted, with input from the Project Lead identifying one or more areas of the project to be audited.

The following table lists responsibilities:

Who	What
Project Lead	Approve audit schedules.
	Provide input to the QA Specialist as to the content of audit.
	 Review audit reports for factual accuracy. Address all findings and implement corrective actions as appropriate.
QA Specialist	Identify areas to be addressed during internal audits.
	 Contract with the Quality Management Group to perform annual internal audits.
	 Review audit procedures to ensure they meet the requirements in this section.
Team Members	Cooperate with auditors by providing information, data, etc.
	Implement corrective actions as directed by the Project Lead.

11.0 ATTACHMENTS

Attachment 1- MSGP Program Organization

Attachment 2 – Annual Reporting Form

Attachment 3 – Routine Inspection Form

Attachment 4 – MSGP Facilities and Storm Water Monitored Outfalls Associated with Industrial Activity 2011, Permit NMR05GB21

Attachment 5 – Pollutants under Impaired Waters Monitoring

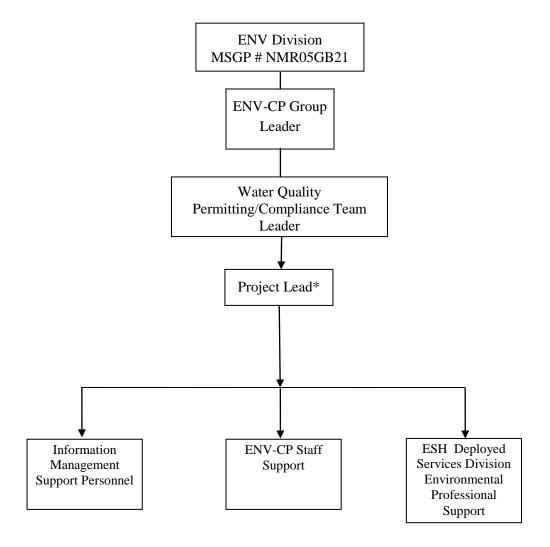
Attachment 6 – Analytes by Industrial Sector

Attachment 7 – References and Guidance Documents

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ATTACHMENT 1- MSGP PROGRAM ORGANIZATION



^{*}Project Lead acts as liaison and will work directly with Team Leaders for staff assignments.

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ATTACHMENT 2 – ANNUAL REPORTING FORM

	NPDES Permit Tracking No.:
United States Environmental Protection Agency Washington, DC 20460	
Annual Reporting Form	
A. GENERAL INFORMATION	
1. Facility Name:	
2. NPDES Permit Tracking No.:	
3. Facility Physical Address:	
a. Street:	
b. City: c. State: d. Zip Code:	·
4. Lead Inspectors Name: Title: Title:	
Additional Inspectors Name(s):	
5. Contact Person: Title:	
Phone: Ext E-mail: E-mail:	
6. Inspection Date: / / / / / / / / / / / / / / / / / / /	
B. GENERAL INSPECTION FINDINGS	
1. As part of this comprehensive site inspection, did you inspect all potential pollutant sources, including areas where industrial activity may \square YES \square NO	be exposed to stormwater?
If NO, describe why not:	
NOTE: Complete Section C of this form for each industrial activity area inspected and included in your SWPPP or as newly identified in B. may be exposed to stormwater.	2 or B.3 below where pollutants
2. Did this inspection identify any stormwater or non-stormwater outfalls not previously identified in your SWPPP?	
If YES, for each location, describe the sources of those stormwater and non-stormwater discharges and any associated control measures.	res in place:

	NPDES Permit Tracking No.
. Did this inspection identify any sources of stormwater or non-stormwater discharges not previously identified in your SWPPP? 🔲 YE	S NO
If YES, describe these sources of stormwater or non-stormwater pollutants expected to be present in these discharges, and any cor	ntrol measures in place:
Did you review stormwater monitoring data as part of this inspection to identify potential pollutant hot spots?	NA, no monitoring performed
If YES, summarize the findings of that review and describe any additional inspection activities resulting from this review:	
. Describe any evidence of pollutants entering the drainage system or discharging to surface waters, and the condition of and around o	utfalls including flow
dissipation measures to prevent scouring:	ottails, motoding new
Have you taken or do you plan to take any corrective actions, as specified in Part 3 of the permit, since your last annual report submis authorization to discharge under this permit if this is your first annual report), including any corrective actions identified as a result of this permit is permit if this is your first annual report), including any corrective actions identified as a result of the permit is permit if this is your first annual report), including any corrective actions identified as a result of the permit is permit if this is your first annual report).	ssion (or since you received his annual comprehensive site
If YES, how many conditions requiring review for correction action as specified in Parts 3.1 and 3.2 were addressed by these corrective actions?	
IOTE: Complete the attached Corrective Action Form (Section D) for each condition identified, including any conditions identified as a	result of this comprehensive

Stormwater MSGP for Industrial Activities Program

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			NPD	ES Pe	rmit T	rackir	ng No.:
					Ш		
C. INDUSTRIAL ACTIVITY AREA SPECIFIC FINDINGS						-	
Complete one block for each industrial activity area where pollutants may	be expose	d to stormwater. Copy this page for addition	nal ind	ustrio	l activ	vity e	rose
In reviewing each area, you should consider: Industrial materials, residue, or trash that may have or could come ir Leaks or spills from industrial equipment, drums, tanks, and other co Offsite tracking of industrial or waste materials from areas of no expe Tracking or blowing of raw, final, or waste materials from areas of no	nto contact ontainers;	with stormwater;	iai iiiu	ustria	aun	nty ar	eas.
INDUSTRIAL ACTIVITY AREA:		•					
1. Brief Description:							
Are any control measures in need of maintenance or repair?	☐ YES	□NO					
Have any control measures failed and require replacement?							
Are any additional/revised control measures necessary in this area?	☐ YES	□ NO					
If YES to any of these three questions, provide a description of the problem: Corrective Action Form)		_	the at	tached	ı		
INDUSTRIAL ACTIVITY AREA: 1. Brief Description:							
Are any control measures in need of maintenance or repair? Have any control measures failed and require replacement?	☐ YES	□ NO					
Are any additional/revised c necessary in this area?	YES	□ NO					
If YES to any of these three questions, provide a description of the problem: Corrective Action Form)			n the at	tached	i		
INDUSTRIAL ACTIVITY AREA:							
Brief Description:							
Are any control measures in need of maintenance or repair?	☐ YES	□ NO					
3. Have any control measures failed and require replacement?	☐ YES	□NO					
4. Are any additional/revised BMPs necessary in this area?	☐ YES	□ NO					
If YES to any of these three questions, provide a description of the problem: Corrective Action Form)	(Any neces	ssary corrective actions should be described on	the att	ached			

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	Effective Date: 11/04/2013	

			NPDE	S Perr	nit Tra	cking	No.:
			Ш	Ш		Ш	
		NOTE: Copy this page and attach	addition	nal pag	es as	neces	sary
INDUSTRIAL ACTIVITY AREA:							
1. Brief Description:							
2. Are any control measures in need of maintenance or repair?	☐ YES	□NO					
3. Have any control measures failed and require replacement?	☐ YES	□NO					
4. Are any additional/revised BMPs necessary in this area?	☐ YES	□NO					
If YES to any of these three questions, provide a description of the Corrective Action Form)	he problem:	(Any necessary corrective actions should be described on the	e attacl	hed			
Corrective Action Form)							
INDUSTRIAL ACTIVITY AREA:							
1. Brief Description:							
1. Diei Description.							
Are any control measures in need of maintenance or repair?	☐ YES	□NO					
Have any control measures failed and require replacement?	YES	□NO					
Are any additional/revised BMPs necessary in this area?	☐ YES	□NO					
If YES to any of these three questions, provide a description of the	he problem:	(Any necessary corrective actions should be described on the	e attac	hed			
Corrective Action Form)							
INDUSTRIAL ACTIVITY AREA:							
1. Brief Description:							
	E V50	FINO					
Are any control measures in need of maintenance or repair? Have any control measures foiled and require replacement?	☐ YES	□ NO					
Have any control measures failed and require replacement? Are any additional/revised BMPs necessary in this area?	☐ YES	□ NO					
If YES to any of these three questions, provide a description of the			e attac	hed			
Corrective Action Form)	problem.	Viny increased y consented actions enough to accompany of the					

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	NPDE	S Permit	Tracki	ıg No.:
	Ш			
D. CORRECTIVE ACTIONS				
Complete this page for each specific condition requiring a corrective action or a review determining that no corrective at page for additional corrective actions or reviews.	tion is ne	eded. C	Copy th	is
Include both corrective actions that have been initiated or completed since the last annual report, and future corrective actions ned identified in this comprehensive stormwater inspection. Include an update on any outstanding corrective actions that had not been previous annual report.	ded to ad complete	dress pro	oblems time of	your
1. Corrective Action # of for this reporting period.				
2. Is this corrective action:				
☐ An update on a corrective action from a previous annual report; or				
☐ A new corrective action?				
3. Identify the condition(s) triggering the need for this review:				
☐ Unauthorized release or discharge				
☐ Numeric effluent limitation exceedance				
☐ Control measures inadequate to meet applicable water quality standards				
☐ 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):				
4. Briefly describe the nature of the problem identified:				
5. Date problem identified:				
6. How problem was identified:				
☐ Comprehensive site inspection				
☐ Quarterly visual assessment				
☐ Routine facility inspection				
☐ Benchmark monitoring				
□ Notification by EPA or State or local authorities				
Other (describe):				
7. Description of corrective action(s) taken or to be taken to eliminate or further investigate the problem (e.g., describe modification measures, analyses to be conducted, etc.) or if no modifications are needed, basis for that determination:	s or repair	s to cont	trol	
8. Did/will this corrective action require modification of your SWPPP?				
9. Date corrective action initiated:				
10. Date correction action completed:	Ш			
11. If corrective action not yet completed, provide the status of corrective action at the time of the comprehensive site inspection an (including timeframes associated with each step) necessary to complete corrective action:	d describe	any ren	naining	steps

N I	IPDES Permit Tracking No.:
E. ANNUAL REPORT CERTIFICATION	
1. Compliance Certification	
Do you certify that your annual inspection has met the requirements of Part 4.2 of the permit, and that, based upon the results of the your knowledge, you are in compliance with the permit? YES NO	nis inspection, to the best of
If NO, summarize why you are not in compliance with the permit:	
2. Annual Report Certification	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance wassure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persustem, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge	sons who manage the and belief, true, accurate,
and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and impriviolations.	isonment for knowing
Authorized Representative	
Printed Name:	
Signature: Date Signed:	

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ATTACHMENT 3 – ROUTINE INSPECTION FORM

Name of Facility:				Resnons	ible FOD (Name & Organizatio	n)·
_						
Qualified Inspector(s): Others Present:			Inspection type: □ Quarterly □ Other Date of inspection (MM/DD/YYYY):		Date of inspection (MM/DD/YYYY):	
Others Present:					Time of inspection:	
Weather: □ Clear □Cloudy □ F Temperature: ° F	Rain 🗖 S	leet 🛭 Fog	ı 🗆 S	now 🗖 l	ligh Winds ☐ Other: Is Inspection Being Con	ducted During a Storm Water Discharge? □Yes □No
# Structural Control Measures (BMP)s	Location	Operating Effectively (Yes or No)?	Maint Repa	Need to ain (M), ir (R) or ce (RP)?	Corrective Action Needed ar failed control measures that ne	nd Notes (identify needed maintenance and repairs, or any eed replacement)
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.						
Were additional BMPs or Control Mea						
Were previously identified conditions	s corrected	before the ne	xt antic	ipated stor	m event? □ Yes □ No If No, o	describe reason:
Area/Activity (Areas of Industrial Materials or Activities Exposed to Storm Water)	Inspected ?	Controls Adequate?	Corre	ctive Actio	n Needed and Notes (List area	letter with comments below)
Material loading/unloading & storage areas Equipment operations & maintenance areas C. Fueling Areas Outdoor vehicle & equipment washing areas E. Waste Handling & disposal areas F. Erodible areas / construction G. Non-storm water / illicit connections						

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Н.	Salt storage piles or pile			
I.	containing salt Dust generation & vehicle tracking			
Are	the SWPP Plan maintenance,	schedules and procedure	s being implemented at the facility? Yes No	
Were any Corrective Actions initiated or completed? □ Yes □ No Describe:				
			s □ No If Yes, List Number of Corrective Actions Requirective Action Report database for each listed)	uired

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ATTACHMENT 4 -- MSGP FACILITIES AND STORM WATER MONITORED OUTFALLS ASSOCIATED WITH INDUSTRIAL ACTIVITY 2011, PERMIT NMR05GB21

Location	Permitted Facility	Operation	Activity	Sector	Monitored Outfall	• Canyon
TA-15-185	TA-15-185 PHERMEX	Vehicle Maintenance Shop	Vehicle Maintenance	Р	15-PHRMX- 1	• Water
TA-3-0034	TA-3-0034 Metal Shop	Fabricated Metals	Fabricated Metals	AA	3-MST-1	 Mortandad
TA-3-22	TA-3-22 Power & Steam Plant	Power Plant	Steam Electric Power	0	3-PSP-1 3-PSP-5 3-PSP-8	Sandia
TA-3-38	TA-3-38 Metals Fab Shop	Metal Shop	Fabricated Metals	AA	3-MFS-1	• Sandia
TA-3-39	TA-3-39 & 102 Metal Shop	Metal Shop	Fabricated Metals	AA	3-TS-1	 Pajarito
TA-3-66	TA-3-66 Sigma Complex	Sigma Foundry	Primary Metals	F	3-Sigma-6	• Sandia
TA-54	TA-54 Area G	Area G - South Side	TSD	K	54-G-1	 Pajarito
TA-54	TA-54 Area G	Area G -North Side	TSD	К	54-G-2	 Canada del Buey
TA-54	TA-54 Area G	Area G - South Side	TSD	K	54-G-3	 Pajarito
TA-54	TA-54 Area G	Area G - South Side	TSD	K	54-G-4	 Pajarito
TA-54	TA-54 Area L	Area L	TSD	К	54-L-1	Canada del Buey
TA-54-38	TA-54 RANT	RANT	TSD	К	54-RANT-1	 Canada del Buey
TA-60	TA-60 Asphalt Batch Plant	Asphalt Batch Plant	Asphalt Paving	D	60-ABP-1	 Mortandad
TA-60	TA-60 MRF	Materials Recycling Facility	Scrap Recycling	N	60-MRF-1	• Sandia
TA-60-250	TA-60 Roads and Grounds	Roads & Grounds Facility	Vehicle Maintenance & Storage	Р	60-RG-1	Mortandad
			-	Р	60-RG-3	 Sandia
				Р	60-RG-8	 Sandia
TA-60-1	TA-60-1 Heavy Equipment Yard	Motor pool	Vehicle Maintenance	Р	60-HEY-2	• Sandia
TA-60-2	TA-60-2 Warehouse	Motor pool	Vehicle Maintenance	Р	60-WH-1	• Sandia
TA-9-28	TA-9-28 Heavy Equipment Maintenance	Motor pool	Vehicle Maintenance	Р	9-HEM-1	 Pajarito

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ATTACHMENT 5 – POLLUTANTS UNDER IMPAIRED WATERS MONITORING

Permitted Facility	Monitored Outfall	Assessment Unit	Canyon	Pollutant
TA-54 Area G	54-G-2	NM-128.A_00	Canada del Buey (within LANL)	PCBs
TA-54 Area L	54-L-1			Aluminum
TA-54-RANT	54-RANT-1			Gross Alpha
TA-54 Area G	54-G-1	NM-128.A_08	Pajarito Canyon (within LANL	PCBs
TA-54 Area G	54-G-3		below Arroyo de la Delfe)	Aluminum
TA-54 Area G	54-G-4			Copper
				Gross Alpha
TA-15-185 PHERMEX	15-PHRMX-1	NM-128.A_13	Water Canyon (within LANL	PCBs
		_	below Area-A Canyon)	Aluminum
				Gross Alpha
TA-3-39 & 102 Metal Shop	3-TS-1	NM-128.A_15	Two Mile Canyon (Pajarito to	PCBs
			headwaters)	Aluminum
				Gross Alpha
TA-9-28 Heavy Equipment	9-HEM-1	NM-128.A_16	Arroyo de la Delfe (Pajarito	Aluminum
Maintenance			Canyon to headwaters)	Mercury
				Gross Alpha
TA-60 Asphalt Batch Plant	60-ABP-1	NM-9000.A_042	Mortandad Canyon (within	Aluminum
TA-3-0034 Metal Shop	3-MST-1		LANL)	Copper
TA-60 Roads and Grounds	60-RG-1			
				Gross Alpha
		NM-9000.A_047	Sandia Canyon (Sigma Canyon	PCBs
TA-3-38 Metals Fab Shop	3-MFS-1		to NPDES outfall 001)	Aluminum
TA-3-22 Power & Steam Plant	3-PSP-1			Copper
TA-3-22 Power & Steam Plant	3-PSP-5			Gross Alpha
TA-3-22 Power & Steam Plant	3-PSP-8			Mercury
TA-3-66 Sigma Complex	3-Sigma-6			
TA-60-1 Heavy Equipment Yard	60-HEY-2			
TA-60 MRF	60-MRF-1			
TA-60 Roads and Grounds	60-RG-3			
TA-60 Roads and Grounds	60-RG-8			
TA-60-2 Warehouse	60-WH-1			

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ATTACHMENT 6 – ANALYTES BY INDUSTRIAL SECTOR

Permitted Facility	Monitored Outfall	Sector	Activity	Analyte	Monitoring Requirement
TA-3-0034 Metal Shop	3-MST-1	AA	Fabricated Metals	Aluminum	Quarterly Benchmark Monitoring (QBM)
TA-3-38 Metals Fab Shop	3-MFS-1			Iron	QBM
TA-3-39 & 102 Metal Shop	3-TS-1			Nitrate plus Nitrite Nitrogen	QBM
				Zinc	QBM
TA-60 Asphalt Batch Plant	60-ABP-1	D	Asphalt Paving	Oil and Grease	Effluent Limitations Guidelines (ELG)
				pН	ELG
				Total Suspended Solids	QBM and ELG
TA-3-66 Sigma Complex	3-Sigma-6	F	Primary Metals	Copper	QBM
				Zinc	QBM
TA-54 Area G	54-G-1	К	Treatment, Storage or Disposal Facility (TSD)	Ammonia	QBM
TA-54 Area G	54-G-2			Arsenic	QBM
TA-54 Area G	54-G-3			Cadmium	QBM
TA-54 Area G	54-G-4			Chemical Oxygen Demand	QBM
TA-54 Area L	54-L-1			Cyanide	QBM
TA-54 RANT	54-RANT-1			Lead	QBM
				Magnesium	QBM
				Mercury	QBM
				Selenium	QBM
				Silver	QBM
TA-60 MRF	60-MRF-1	N	Scrap Recycling	Aluminum	QBM
				Chemical Oxygen Demand	QBM
				Copper	QBM
				Iron	QBM
				Lead	QBM
				Total Suspended Solids	QBM
				Zinc	QBM
TA-3-22 Power & Steam Plant	3-PSP-1	0	Steam Electric Power	Iron	QBM
	3-PSP-5				
	3-PSP-8				

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ATTACHMENT 7 – REFERENCES AND GUIDANCE DOCUMENTS

- 40 CFR 122, EPA Administered Permit Programs
- 40 CFR 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants.
- Clean Water Act, Title 33 U.S.C. 1251
- DOE O 414.1C, Quality Assurance
- DOE Order 450.1, Environmental Protection Program
- DOE Order 5400.5, Radiation Protection of Public and Environment
- EPA QA/G-4, Guidance for the Data Quality Objectives Process

LANL Documents:

- P322-4, Laboratory Performance, Feedback, and Improvement
- P328-3, Management Assessments
- P328-4, Management Observation and Verification
- P330-6, Nonconformance Reporting
- P330-8, Inspection and Test for Acceptance
- P340, Conduct of Engineering
- P341, Engineering Process Manual
- P401, Procedure to Identify, Communicate, and Implement Environmental Requirements
- P407, Water Quality
- P840-1, Procurement Quality

ENV Documents:

- ENV-DO-QP-105, Preparation, Review, and Approval of Procedures
- ENV-DO-QP-106, Document Control
- ENV-DO-QP-113, Tracking Performance Feedback and Actions
- ENV-DO-QP-115, Personnel Training
- ENV-CP-QP-022, MSGP Storm Water Corrective Actions
- ENV-CP-QP-044, Preparing Storm Water Discharge Monitoring Reports (MDNRs) for NPDES MSGP
- ENV-CP-QP-047, Inspecting Storm Water Runoff Samplers and Retrieving Samples
- ENV-CP-QP-048, Processing MSGP Storm Water Samples
- ENV-CP-QP-064, Multi-Sector General Permit Storm Water Visual Inspections
- ENV-WQH-QP-029, Creating and Maintaining a Chain of Custody
- Surface Water Monitoring Plan, October 2001, Rev. 0.0

TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 16: EPC-CP-QP-023, MSGP ROUTINE FACILITY INSPECTIONS

EPC-CP-QP-023	Revision: 1	• Los Alamos
Effective Date: 03/07/2019	Next Review Date: 03/07/2022	NATIONAL LABORATORY EST. 1943

Environment, Safety, Health, Quality, Safeguards, Security Directorate

Environmental Protection and Compliance Division – Compliance Programs

Quality Procedure

MSGP Routine Facility Inspections

Document Owner/Subject Matter Expert:					
Name: Organization: Signature: Date:					
Holly L. Wheeler	EPC-CP	Signature on File	3-6-19		

Derivative Classifier: Unclassified				
Name: Organization: Signature: Date:				
Steven E. Wolfel	EPC-CP	Signature on File	2-28-19	

Approval Signatures:

Subject Matter Expert:	Organization:	Signature:	Date:
Holly L. Wheeler	EPC-CP	Signature on File	3-6-19
Responsible Line Manager:	Organization:	Signature:	Date:
Terrill W. Lemke	EPC-CP Team Leader	Signature on File	3-6-19
Responsible Line Manager	Organization	Signature:	Date:
Taunia S. Van Valkenburg	EPC-CP Group Leader	Signature on File	3-7-19

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Inspections	Revision: 1	Effective Date: 03/07/2019

REVISION HISTORY

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
EPC-CP-QP-023 R0	05/17/2018	New Document. Process formerly part of procedure ENV-RCRA-QP-022 R2, MSGP Corrective Actions.
EPC-CP-QP-023 R1	03/07/2019	Added question to inspection form, associated text to document, and renumbered steps. Removed reference to Los Alamos National Security, LLC. Added reference to LANL BMP Manual. Minor edits made.

MSGP Routine Facility Inspections

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 Effective Date: 03/07/2019

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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

Parts 3.1 and 3.1.2 of the MSGP contain specific requirements for conducting and documenting periodic industrial routine facility inspections. This procedure governs the activities of LANL 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 LANL 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 subcontractor personnel (as applicable) 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 the MSGP 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 Form to add new Best Management Practices (BMPs) or decommission retired ones;
- Training personnel to use MC Express;
- Performing a quality review of routine facility inspections and "no exposure" site inspections submitted in Maintenance Connection (MC); and
- Assisting customers with issues associated with MC Express.

2.2 Deployed Environmental Professionals

DEPs are responsible for the following:

- Implementing this procedure;
- Being educated (i.e., 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-QAPP-MSGP, Stormwater Multi-Sector General Permit for Industrial Activities Program;
- Being trained on EPC-CP-QP-022, Multi-Sector General Permit (MSGP) Corrective Actions;
- Being trained on 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, either monthly or quarterly throughout the year at regulated sites within their FOD (depending on inspection frequency identified in sitespecific 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 ensures 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, MSGP Routine Facility Inspections, or "no exposure" site 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.

3.0 PRECAUTIONS AND LIMITATIONS

The hazard rating for the activities described in this procedure is **LOW** and therefore, does not require an IWD.

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Field inspections 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).

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.
- 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. Obtain any necessary additional paperwork before conducting this work, including SWPPPs and maps (as necessary).

4.2 Tools and Equipment

Ensure the following equipment is available.

- Sturdy hiking boots or steel toed shoes with soles that grip and other facility specific PPE as needed.
- 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-Form-1020, 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.

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. The inspections are performed on the following facility areas:

• Areas where industrial materials or activities are exposed to stormwater;

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- 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 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.

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5.1 Conducting the Inspection

See Attachment 1 for screen shot examples of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express. See Attachment 2 for an example of the inspection form in hard copy format.

Some terminology varies between the MC Express software and the MC desktop software. 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.

If the inspector needs space, additional comments can be entered in the "Labor Report" field (see Section 5.2) when the work order is updated to "Complete" status in MC Express. If completing a hard copy enter additional comments in the "Labor Report" field at the bottom of the form.

- 1. Use the Internet Explorer web browser on a tablet or similar portable computer and navigate to http://express.maintenanceconnection.com. Log into the MC Express application using your login credentials.
- 2. Open the inspection form for the location to be inspected and select "Tasks" to navigate to the Tasks page.
 - **NOTE 1:** Each item number listed in red font below corresponds to a numbered box on both screen shots (Attachment 1) and hard copy format (Attachment 2).
- 3. Item 1: Observe the weather at time of inspection. Document the weather and temperature in the "Comments" field. Document this task is or is not completed by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

CAUTION

Click the "Save" bar after entries for a task line have been completed and before proceeding to the next question. Failure to "Save" results in lost data entries.

- 4. Item 2: Observe and document the facility is free of **new** discharges of pollutants **since the last inspection** by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any new discharges and the specific location in the "Comments" field of the task line.
- 5. Item 3:

IF the response to Item 2 is "Complete"

THEN click the expand arrow located on the right side of this task line and change the "N/A" line to "Yes".

OR

IF the response to Item 2 is "Failed",

<u>THEN</u> document any corrective action previously initiated for the discharge by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

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- 6. Item 4: Observe and document the facility is free of discharges of pollutants at the time of inspection by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any pollutant discharge and the specific location in the "Comments" field of the task line.
- 7. Item 5: Observe and document the facility is free of evidence of pollutants entering the drainage system OR the potential for pollutants entering the drainage system by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any discharge or potential discharge and the specific location in the "Comments" field of the task line.
- 8. **Item 6**: Observe and document the outfall does not have any **new** evidence of erosion **since the last inspection** by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any erosion observed in the "Comments" field of the task line.
- 9. Item 7: Observe and document all flow dissipation devices are operating effectively and are not in need of repair by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any non-functional status of devices in the "Comments" field of the task line.
- 10. Item 8: Observe and document the outfall is free of evidence of pollutants in the discharge and/or the receiving water by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any pollutants observed in the "Comments" field of the task line.
- 11. Item 9: Observe and document the outfall is free of unauthorized non-stormwater discharges by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any unauthorized discharges observed in the "Comments" field of the task line.
- 12. If the location has more than one outfall, complete Steps 8 through 11 for each outfall shown on the work order.
- 13. Item 10: Observe and document each control measure is operating effectively by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". 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.
 - **NOTE 2**: 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 <u>LANL Stormwater BMP Manual</u>.
- 14. <u>IF</u> the location has more than one control measure, <u>THEN</u> complete Step 13 for each control measure shown on the work order.

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- 15. Item 11: Observe and document each sector of NPDES specified industrial area/activity (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) is inspected for exposure to stormwater. Document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".
 - Determine if the control measures associated with each industrial area/activity are appropriate for the activity, effectively controlling stormwater exposure, and operating. 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.
- 16. **IF** the facility has more than one sector of NPDES specified industrial area/activity, **THEN** complete Step 15 for each industrial area/activity shown on the work order.
 - For industrial activities that do not apply to the facility, click the expand arrow located on the right side of the task line and change the "N/A" line to "Yes".
- 17. Item 12: Observe and document the facility is free of discharges of any non-compliance not documented elsewhere on the inspection form by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any additional incidences of non-compliance in the "Comments" field of the task line.
- 18. Item 13: Observe and document the facility meets the MSGP requirements with existing control measures by clicking the expand arrow located on the right side of the task line and change the "Complete" to "Yes". If additional control measures are needed to comply with the Permit, click the expand arrow located on the right side of the task line and change the "Failed" to "Yes" and describe the control measures in the "Comments" field of the task line.
- 19. When all task lines have been completed, make sure you have clicked the "Save" bar at the bottom of the page.
- 20. 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.

Always log out of MC Express when you have finished work OR if work is interrupted.

5.2 Completing the Inspection Form in MC Express

See Attachment 1 for screen shot examples of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express.

1. Click the checkered flag in the upper right corner of the work order Summary page.

CAUTION

MC Express automatically changes the work order status to "Closed" and auto-populates the date and time fields.

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 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. Ensure the date and time autopopulated are the date and time the on-site field inspection was completed (not the date/time the form was filled out).

IF these fields need to be updated,

THEN

- [a] Click the "Date" field to open the pop-up window.
- [b] Make necessary adjustments using the timestamp application.
- [c] Click "Set" to apply changes.
- 3. Item 15: The inspector types in his/her name in the "Labor Report Update" field.

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" section.

- 4. 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.
- 5. **Item 16**: Capture an electronic signature by drawing with a finger on the tablet screen. The field inspector is certifying that the information submitted is "true, accurate, and complete" by electronically signing the work order.

NOTE: If using MC Express on a desktop screen (not a tablet), the mouse is used to draw a signature.

- 6. Click on the "Save" bar at the bottom of the page to close the "Signature" field.
- 7. Click on the "Back" button located in the upper left hand corner to return to the "My Open Work Orders" page.
- 8. Once you have completed an inspection, click on the Menu button again, and then click the "Logout" bar. Close the browser. All work will be automatically uploaded from the MC Express application to the MC database.

Always log out of MC Express when you have finished work OR if work is interrupted.

5.3 Completing the Inspection Form on Hardcopy

See Attachment 2 for an example of EPC-CP-Form-1020, MSGP Routine Facility Inspection in hard copy format.

1. Item 14: Write in the date and time the inspection was completed and *not* the date/time the form was filled out.

<u>IF</u> an inspection needs to be performed over multiple days, THEN note the date and time the inspection began in the Labor Report field.

- 2. Item 15: The field inspector prints his/her name.
- 3. The field inspector reviews the inspection form for accuracy.

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IF a correction or update is needed,

THEN the inspector will draw a single line through the information to be updated, write in the new information, and add his/her initials and the date the information was updated.

4. Item 16: The field inspector certifies that the information submitted is "true, accurate, and complete" by signing his/her name and dating when the form was signed.

5.4 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.

- Using the Internet Explorer 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 and enter the work order number in the "Search Value" field. 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" subtab.
- 5. Click the Tools drop down menu in the top right corner of the page and select "Print" from the options. The print dialog box will open. 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 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). The manager is certifying the information submitted is "true, accurate, and complete" by signing the form.

The certification statement will be signed no more than 14 days after completion of the inspection.

7. Attach the completed, signed, and certified inspection form to the facility SWPPP.

6.0 TRAINING

The following personnel require training before implementing this procedure.

- DESH Group and Team Leaders
- EPC-CP MSGP stormwater compliance personnel
- DEPs

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• Other LANL or subcontract personnel identified as being required to conduct stormwater assessments as part of their job duties

For EPC-CP staff, the training method for this procedure is "self-study" (required reading). Other participating groups may require training documentation pursuant to local procedures.

Personnel performing this procedure will be familiar with the most current versions of the following procedures.

- EPC-CP QAPP-MSGP Quality Assurance Project Plan for the Stormwater Multi-Sector General Permit for Industrial Activities
- EPC-CP-QP-022, MSGP Corrective Actions
- MSGP Routine Inspections OJT

7.0 RECORDS

MSGP Routine Facility Inspection forms are signed and certified by individual facilities. These completed forms are maintained in the facility's SWPPP and managed by the facility's document management system. The MSGP team may obtain a copy for reference purposes.

8.0 DEFINITIONS AND ACRONYMS

See LANL <u>Definition of Terms</u>.

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.

8.2 Acronyms

See LANL <u>Acronym Master List</u>.

ВМР	Best Management Practice
EPC-CP	Environmental Protection and Compliance – Compliance Programs
DEP	Deployed Environmental Professional
DESH	Deployed Environment, Safety, and Health
IWD	Integrated Work Document
FOD	Facility Operations Director
LANL	Los Alamos National Laboratory
MC	Maintenance Connection

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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-Form-1020, MSGP Routine Facility Inspection in MC Express

Attachment 2: EPC-CP-Form-1020, MSGP Routine Facility Inspection Hard Copy Example

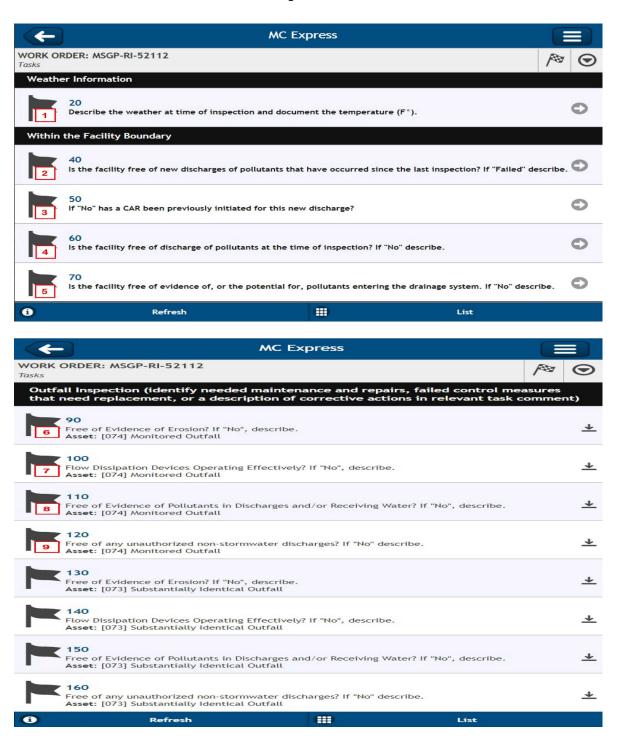
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Attachment 1: Screenshot ExampleS of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express

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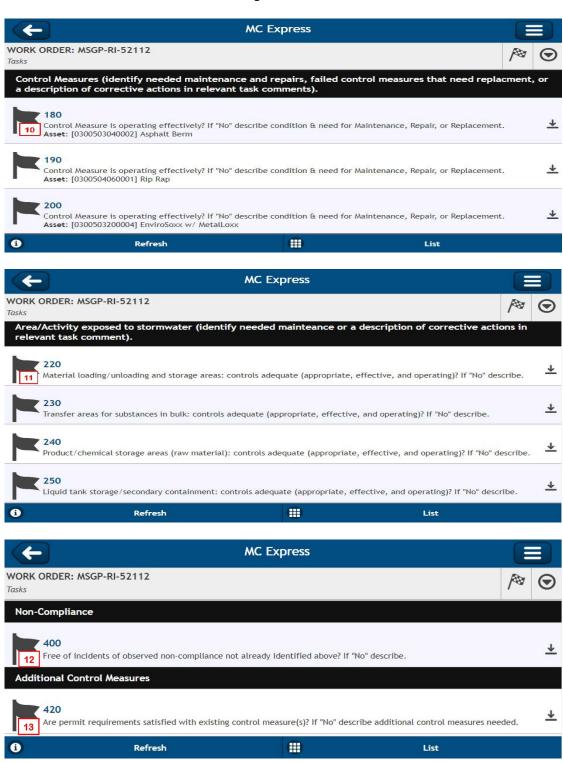
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Attachment 1: Screenshot ExampleS of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express (cont.)

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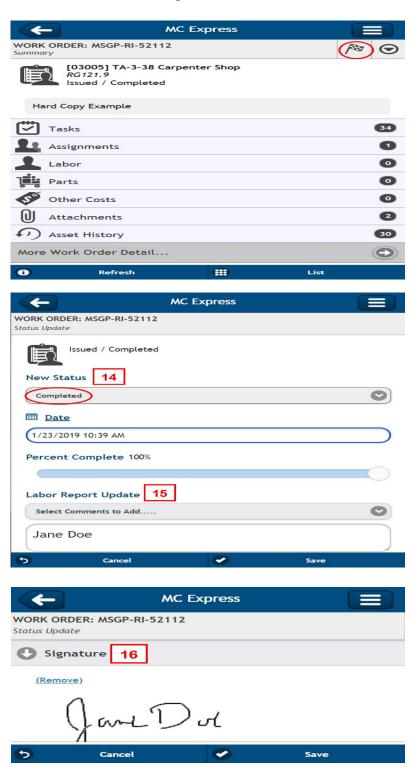


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Attachment 1: Screenshot ExampleS of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express (cont.)

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Attachment 2: EPC-CP-Form-1020, MSGP Routine Facility Inspection Hard Copy Example Page 1 of 3

	Los Alamos National Laboratory			1,000	ork Orde	MSGF	Routin	e Inspection		
-	Mainten	ance I	Details ————			Fillited	1/23/2019 -	12.40 F	W (Dup	ilicate Copy)
	Taken B Procedu	y: ire:	Admin, Jane on 1/23/2019 12:30:00 PM Banar, Alethea MSGP Routine Facility Inspection (EPC-CP- Form-1020.2) N/A	•	12/31/2020 / Inspection Utilities and Infrastructure	♣ RG12 ♣ TA-3- Contact:	P Program 21.9 38 Carpent Admin, Jar 123-4567		pp	
	Reason:	Exam	ple MSGP Routine Facility	Inspection						
	Tasks —									
	#	Descri	ption				Meas.	No	N/A	Yes
1	Weathe 20			cnaction and da	oumant the temperature (E®)			_	_	_
T				spection and do	cument the temperature (F°)					
			ility Boundary acility free of new dischard	es of pollutants t	hat have occurred since the	last				
2	40	inspec	tion? If "Failed" describe.	- Control of the cont						_=_
3	50		b" has a CAR been previous			- 11		므		
Т					time of inspection? If "No" de or, pollutants entering the dra			- 10		
Ę	70		n. If "No" describe.	ir trie poteritiarit	or, politicants entering the dra	iiriage				
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6	descrip	tion of	corrective actions in relev	ant task comm	ent)					
6	90		ored Outfall [074] Free of E			en e				
7	100	describ		sipation Devices	Operating Effectively? If "N	o ,		П		
8	Monitored Outfall [074] Free of Evidence of Pollutants in Discharges and/or Receiving									
4	110		If "No", describe.	unu unautharizas	l non starmuntar disabargas	2 If "NIo"		-8		
9	Monitored Outfall [074] Free of any unauthorized non-stormwater discharges? If "No" 120 describe.									
	130	Substa	antially Identical Outfall [0	73] Free of Evic	dence of Erosion? If "No", de	scribe.		П		
	140		antially Identical Outfall [0 lescribe.	73] Flow Dissipa	ation Devices Operating Effe	ctively? If		_	_	_
	140			731 Free of Evic	dence of Pollutants in Discha	raes		-6		
	150	and/or	Receiving Water? If "No", o	lescribe.						
	160		antially Identical Outfall [0 rges? If "No" describe.	073] Free of any	unauthorized non-stormwate	er		П		
10	7 Control	Measu	res (identify needed main	tenance and re	pairs, failed control measu	res that ne	ed replace	nent. o	ra	
T		tion of	corrective actions in relev	ant task comm	ents).					
	180	Aspha	It Berm [0300503040002] be condition & need for Main	Control Measure	e is operating effectively? If "	No"		Е		
	100				erating effectively? If "No" de	escribe				
	190		on & need for Maintenance							
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1 4	_			**		of correct	tive actions	s in rel	evant t	ask
T	Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).									
	220		al loading/unloading and sto erating)? If "No" describe.	orage areas: con	trols adequate (appropriate,	effective,		_		
	220			oulk: controls ade	equate (appropriate, effective	e, and				
	230		ing)? If "No" describe		1 X-1-1 [a. reseal an addition	4				

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Attachment 2: EPC-CP-Form-1020, *MSGP Routine Facility Inspection* Hard Copy EXAMPLE (cont.) Page 2 of 3

240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.			
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.			
260	Industrial processing and finished product storage areas: controls adequate (appropriate, 60 effective, and operating)? If "No" describe.			
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.			
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.			
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.			
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.			
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.			
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls 360 adequate (appropriate, effective, and operating)? If "No" describe.			
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" 370 describe.			
380	Sector A [03005-] Wood processing, transport or treated wood storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			
Non-C	ompliance			
400	Free of incidents of observed non-compliance not already identified above? If "No" describe.	0 0 0		
A 44141	and Control Magazine			
Additio	onal Control Measures Are permit requirements satisfied with existing control measure(s)? If "No" describe			
420	additional control measures needed.			
	Parrant			
.abor	Report			
Comp	leted: 1/23/2019 10:39:00 AM			
Report: [Additional notes, observations, or site conditions not documented in Task Line Comments field]				
Jane Doe				
	Jan Dol 1/23/2019			
	/Signature / Name Date Signature / Name	Date		
confi	m the information as recorded is true, accurate and complete.			

EPC-CP-Form-1020.2 01/2019

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Attachment 2: EPC-CP-Form-1020, MSGP Routine Facility Inspection Hard Copy EXAMPLE (cont.) Page 3 of 3

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:

EPC-CP-Form-1020.2 01/2019

TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

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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Derivative Classifier: Unclassified				
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Revision History

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
0	08/10	New Document.
1	11/10	Incorporated EPC-CP-QP-062 MSGP Routine Inspections into this document.
2	01/13	Biennial revision, new template implemented.
EPC-CP-QP-022 R3	12/202018	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.

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). 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 <u>LANL Stormwater BMP Manual</u>.

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] <u>IF</u> any of the following conditions are identified, <u>THEN</u> 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 nonstormwater 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] <u>IF</u> a condition exists that requires corrective action, as described in Section 5.1 [1], <u>THEN</u> 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] <u>IF</u> 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), <u>THEN</u>:

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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] <u>IF</u> completion of the corrective action is <u>infeasible</u> 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;
 - o 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] <u>IF</u> 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 or 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.
- [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 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 peforming 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 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 <u>or</u> 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] <u>IF</u> 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.
 - [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.
- [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] <u>IF</u> not, <u>THEN</u> 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] <u>IF</u> 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] <u>IF</u> an issue needs to be entered into the IM tool, <u>THEN</u> 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.

ВМР	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
Υ	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.
- <u>Unites States Environmental Protection Agency (EPA) National Pollutant Discharge</u>
 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
- <u>SD100, Integrated Safety Management System</u>
- 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

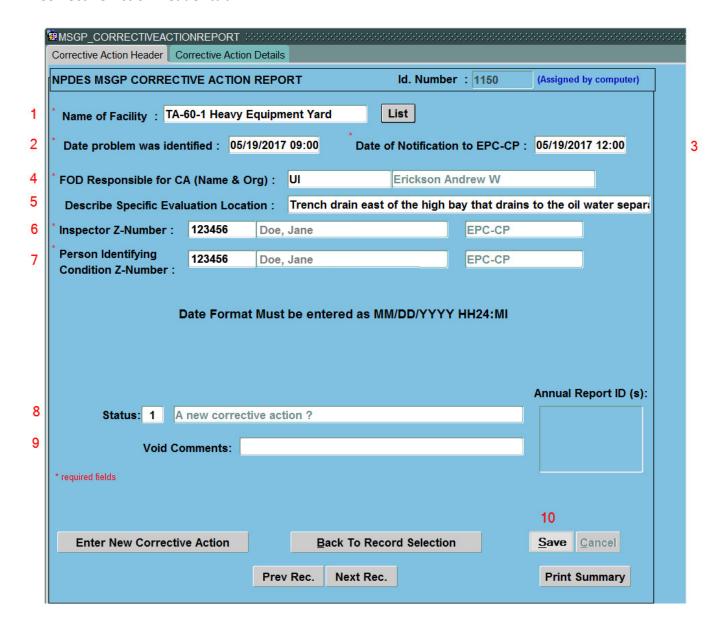
Attachment 5: Example Outstanding Corrective Action Report

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Attachment 1 - Screenshot Example of CAR Database

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Corrective Action Header tab



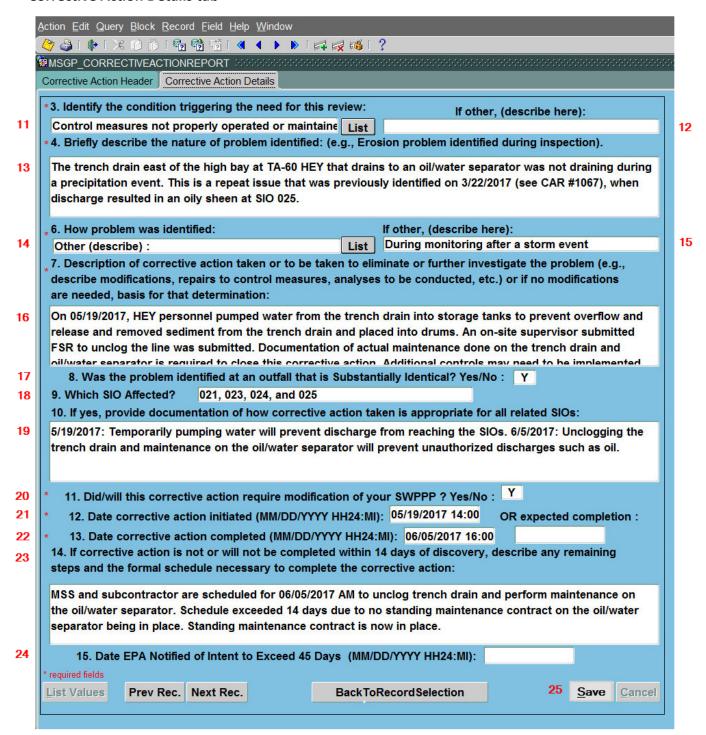
Λ	JSGP	Corre	ctive	Actio	nnc
ш	VI.3(7P	1.0116	CLIVE	ALIII	1112

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Attachment 1 - Screenshot Example of CAR Database (cont.)

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Corrective Action Details tab



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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

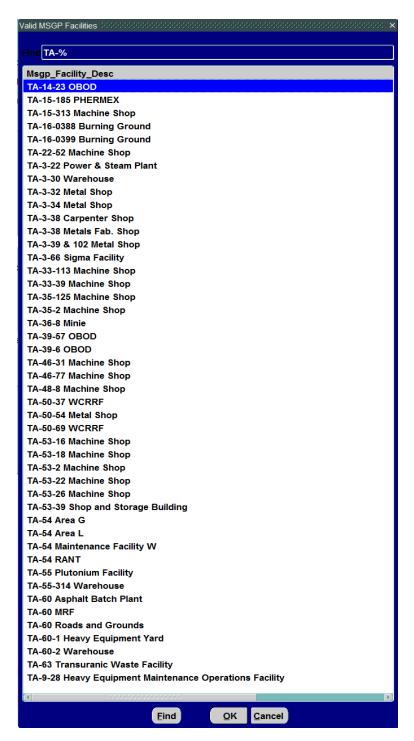
On 05/19/2017, HEY personnel pumped water from the trench drain into storage tanks to prevent overflow and release. Sediment was also removed from the trench drain and placed into drums. An on-site supervisor submitted an FSR to unclog the line. Documentation of actual maintenance done on the trench 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)

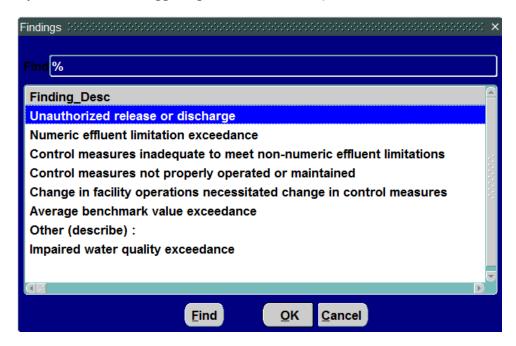


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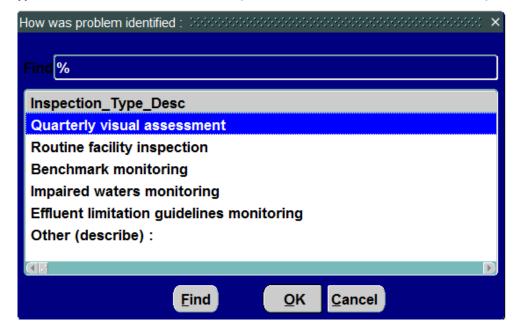
Attachment 2 – Lists of Limited Values in the CAR Database (cont.)

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Finding Description/Condition Triggering Need for Review (Item 11 on Attachment 1 Screenshot)



Inspection Type/How Problem was Identified (Item 14 on Attachment 1 Screenshot)



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Attachment 3 - Example New Corrective Action Finding Notification

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 $\label{lem:main_solution} From: MSGPC or rective Action DB@esp-esh-as 01. lanl. gov [mail to: MSGPC or rective Action DB@esp-esh-as 01. lanl. gov] \\ \textbf{Sent: Friday, January 19, 2018 10: 00 PM}$

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

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 tot he start of work the operator noticed the forklift was leading 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 <u>HERE</u> to access the list of MSGP corrective action(s) not yet completed for EWMO.

Click $\underline{\mathsf{HERE}}$ 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 make 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

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 $\textbf{From:} \ MSGPC or rective Action DB@esp-esh-as 01.lanl. gov \ [mail to: MSGPC or rective Action DB@esp-esh-as 01.lanl. gov] \ [mail to: MSGPC or rective Action DB@esp-esh-as 01.lanl. gov$

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 make 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

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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	Completion		Days Open (since	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	Total Findings:										2	

	Legend				
	į.	Action must be taken and documented in CAR.	3	Indicates immediate action was not taken (i.e., <=2 days of discovery)	
Within 14 days o		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	

TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 18: EPC-CP-QP-064, MSGP STORMWATER VISUAL ASSESSMENTS

EPC-CP-QP-064	Revision: 1	
Effective Date: 10/09/2018	Next Review Date: 10/09/2021	

EPC-CP

Organization:

Organization:

EPC-CP Team Leader

EPC-CP Group Leader

Holly L. Wheeler

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Environment, Safety, Health Directorate Environmental Protection and Compliance-Compliance Programs Quality Procedure

MSGP Stormwater Visual Assessments

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REVISION HISTORY

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
ENV-RCRA-QP-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.

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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 outfall locations where LANL conducts stormwater monitoring activities 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 Storm Water Pollution Prevention Plan (SWPPP) and visually inspected for water quality characteristics. Stormwater samples are collected with an automated sampler, single stage sampler, or by taking a grab sample.

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.

Note: 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)."

2.0 PRECAUTIONS AND LIMITATIONS

Hazards in the work described in this procedure are controlled through site specific Integrated Work Documents (IWDs). The hazard level for the activities described in this procedure is <u>low</u>. The IWD Part II (2101 Form) will address site-specific requirements and training for Facility Operations Divisions (FODs).

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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).

Some terminology varies between the MC Express software and the Maintenance Connection desktop software.

- The "Reading" field in MC Express is the same field as "Reading Final" in Maintenance Connection desktop and "Meas." on a hard copy (printed) work order.
- The "Complete" option in MC Express is the same as a "Yes" answer; the "Failed" option in MC Express is the same as a "No" answer. Maintenance Connection desktop and hard copy (printed) work orders use "Yes" and "No" terminology.

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

- 1. 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.
- 2. Obtain necessary additional paperwork (if required) before conducting this work, including IWD's, and excavation permits.
- 3. As specified in the IWD, inform (e.g., by e-mail) facility contacts and/or DEP (Deployed Environmental Professional) 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.

Note: For some FODs (e.g., Utilities and Institutional Facilities), MSGP stormwater monitoring activities are on a standing plan of the day. However, this must be requested each year at the beginning of the monitoring season.

- 4. The IWD Part II (2101 Form) addresses specific requirements and training for FODs.
- 5. Gather the required equipment (see Section 3.2) 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 using your login credentials. Confirm that the work order list displayed in the "My Open Work Orders" section matches your sites. If work orders are not displayed, click the "Refresh" bar at the bottom of the page. The page will refresh and any work orders issued since you logged in will be loaded to the application. If the work order lists still do not match, contact the MSGP Data Management Team for clarification.

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8. 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 at all times, with no daylight saving time adjustment.

3.2 Tools and Equipment

Ensure the following equipment is available in the field vehicle:

- Safety glasses with side shields
- Nitrile gloves
- Sturdy hiking boots or steel toed shoes with soles that grip and other facility specific Personal Protective Equipment
- 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)
- Current copy of the MSGP Sampling and Analysis Plan
- Site Map(s) (as needed)
- Current electronic work order or paper inspection form
- 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
- Certified clean replacement sample bottles (clear glass or clear poly)
- Paper Towels

4.0 VISUAL ASSESSMENT OF STORMWATER

1. Take the sample bottle with water out of automated sampler or single stage jar off the ground, or fill a clear sample bottle with a grab sample and wipe off exterior.

Note: If a grab sample is collected, it 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. 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.
- 3. Click on the "Tasks" bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1 and a hard copy example in Attachment 2.

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- 4. Any additional comments not documented in the "Reading" field will be entered in the "Comments" field of the same task line. If the inspector needs more space, additional comments will be entered in the "Labor Report Update" field (see Section 4.3) when the work order is updated to "Complete" status.
- 5. Click the "Save" bar after all entries for a task line have been completed and before proceeding to the next question. Failure to "Save" results in lost data entries.

4.1 Documenting Sample Information

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).

 Item 1: Document the monitoring period by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the monitoring period (e.g., Apr-May, Jun-Jul, Aug-Sep, and Oct-Nov).

Note: If the discharge collected is from a rain event from the previous monitoring period but the visual assessment is made in the following monitoring period, document monitoring period on the inspection to correspond to the period in which the rain event took place.

Item 2: Check the date and time stormwater discharge began and document by clicking the
expand arrow located on the right side of the task line and changing the "Complete" or
"Failed" line to "Yes".

Enter the date and time in the following date formats: MM/DD/YY, or MM-DD-YY. Time must be entered in 24-hr format.

Note: If the discharge date/time is not available (e.g., precipitation report) when the visual is performed in the field, leave this Task Line incomplete and complete when the information is available.

3. Item 3: Check the date and time the sample was collected and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

Enter the date and time in the following date formats: MM/DD/YY, or MM-DD-YY. Time must be entered in 24-hr format.

Note: If the collection date/time is not available (e.g., precipitation report) when the visual is performed in the field, leave this Task Line incomplete and complete when the information is available.

4. Item 4: Check the date and time stormwater was visually assessed and document by clicking on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

Enter the date and time in the following date formats: MM/DD/YY, or MM-DD-YY. Time must be entered in 24-hr. format.

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5. Item 5: Observe the nature of the discharge and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the discharge (e.g., rainfall or snowmelt) and the TOTAL amount of precipitation from the event.

Note: If the total amount of precipitation is not available (e.g., precipitation report) when the visual is performed in the field, leave this Task Line incomplete and complete when the information is available.

6. Item 6: Check the sample was collected in the first 30 minutes of discharge and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". If it is not possible to collect the sample within the first 30 minutes of discharge, the sample must be collected as soon as practicable after the first 30 minutes. The field inspector will document the reason a sample could not be collected within the first 30 minutes.

4.2 Assessing Parameters

While conducting the visual examinations, personnel will constantly be attempting to relate any pollutant that is observed in the sample to a pollutant source on the site.

If there are any potential sources of pollutants on site, document the following, and contact the EPC-CP MSGP Project Lead within 24 hrs. of identification.

- Potential sources;
- Indicate if there are any Best Management Practices (BMPs) on site and evaluate and note effectiveness; and
- If no BMPs, determine if installation could correct future pollutant migration.
- 7. Item 7: Observe the color of the discharge in the sample container and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the color.
- 8. Item 8: Observe any odors detected from sample and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the odor (e.g., musty, sewage, sulfur, sour, solvents, petroleum/gas, etc.).
- 9. Item 9: Observe the clarity of the discharge and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the clarity (e.g., slightly cloudy, cloudy, opaque).
 - 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.

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- 10. Item 10: Observe any floating solids and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". 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). Describe any floating solids observed.
- 11. Item 11: Observe any settled solids in the sample and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any settled solids observed (e.g., fine, course).
 - Settled solids may be an indicator of unstable ground cover combined with a high intensity stormwater runoff event.
- 12. Item 12: Observe any suspended solids in the sample and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any suspended solids observed (e.g., fine, course).
 - Most often suspended solids include fine sediment. This may be an indication of an unstable channel with eroding banks. Some water appears to be colored because of relatively coarse particulate material in suspension such as sediment.
- 13. Item 13: Check the sample is free of foam and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Gently shake the sample container. Describe any bubbles in or on the surface of the water and the color of the foam.
 - If it is determined that foam is caused by a pollutant, complete the visual assessment and contact the EPC-CP MSGP Project Leader <u>immediately</u> following completion of the <u>assessment</u>. Follow-up action is required within 24 hours.
- 14. Item 14: Check the sample is devoid of any oil sheen and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". If an oil sheen is present, describe the thickness and consistency (e.g., flecks, globs).
 - If an oil sheen is present, contact the EPC-CP MSGP Project Leader <u>immediately</u> following <u>completion of the visual assessment</u>. Determine the nature of the discharge (rain, snow, hail), the source of the oil sheen and if existing BMPs are effective in mitigation of potential pollutants or if a new BMP needs to be installed. Follow-up action is required within 24 hours.
- 15. Item 15: Check the discharge is free of any other indicators of stormwater pollution not described in any other task line above and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any observations.
- 16. When all task lines have been completed, click the "Back" button in the upper left hand corner to exit the work order Tasks page and return to the work order Summary page.

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4.3 Completing the 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 checkered flag in the upper right corner of the work order Summary page.

 The work order will open in the display to the Status Update page.

MC Express automatically changes the work order status to "Closed" and auto populates the date/time fields.

- 3. 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. Ensure the date and time autopopulated are the date and time the work was completed and not the date/time the form was filled out. If work needs to be performed over multiple days, enter the date and time the work began in the Labor Report field. To update the date or time, click the "Date" field and make necessary adjustments using the available timestamp application. Click "Set" to apply changes.
- 4. Item 17: The inspector enters/prints his/her name in the "Labor Report Update" field.

Any additional notes, observations, or site conditions not documented in a task line "Reading" or "Comments" field will be documented in the "Labor Report Update" field.

- 5. 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.
- 6. 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: If using MC Express on a desktop screen (not a tablet), the mouse must be used to sign electronically.

- 7. Click on the "Save" bar at the bottom of the page to close the "Signature" field.
- 8. Click on the "Back" button in the upper left hand corner to return to the "My Open Work Orders" page.
- 9. Once you have completed an inspection, click on the Menu button again, and then click the "Logout" bar. Close the browser. All work will automatically upload from the MC Express application to the MC database.

Always log out of MC Express when you have finished work OR if work is interupted.

4.4 Completing the Certification Statement

1. Using the Safari web browser on a desktop computer, navigate to http://www.maintenanceconnection.com. Log into the MainConn desktop application using your login credentials.

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- 2. Click "Open" in the tool bar at the top of the page to open the MainConn module selections. Click on the "Work Orders" module. See Attachment 3 for screenshot examples of printing from MainConn.
- 3. Click on the "Search" tab at the top left of the page and enter the work order number in the "Search Value" field. 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" subtab.
- 5. Click the Tools drop down menu in the top right corner of the page and select "Print" from the options. The print dialog box will open. Select the print options as appropriate for your local printer.
- 6. Item 19: Obtain a printed name and title, signature, and date on the certification statement (see Attachment 2). The visual assessment 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; Deployed Environmental, Safety, and Health Group Leader; EPC Group Leader, EPC-CP Team Leader). The manager is certifying the information submitted is "true, accurate, and complete" by signing the form.
 - EPC-CP will send out completed visual assessment forms 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.
- 7. Place the completed and signed visual assessment into the facility SWPPP.

5.0 EVIDENCE OF STORMWATER POLLUTION

If stormwater contamination is identified through visual assessment personnel will attempt to identify the pollutant source. Personnel will evaluate whether or not BMPs have already been implemented and evaluate whether or not these are working correctly or need maintenance. A design change could also be incorporated into the stormwater pollution prevention plan to eliminate or minimize the contaminant source from occurring in the future. Personnel will evaluate whether or not implementation of additional BMPs are needed in the pollution prevention plan to address the observed contaminant.

A cleanup of the site should be conducted if the pollutant source is known and well defined. The FOD, DEP, and MSGP representative of EPC-CP should also be contacted and made aware of the situation.

Refer to EPC-CP-QP-022, MSGP Corrective Actions.

6.0 TRAINING

The following personnel require training before implementing this procedure:

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EPC-CP technical staff and subcontract or other personnel who retrieve stormwater samples
and conduct visual assessments at automated samplers, single stage stormwater samplers,
or by grab sample for the MSGP.

For EPC-CP staff, the training method for this procedure is "self-study" (reading). Other participating groups may require training documentation pursuant to local procedures.

Personnel performing this procedure will be familiar with the most current versions of the following procedures and operation manuals:

• EPC-CP MSGP Sampling and Analysis Plan for the current monitoring year

7.0 RECORDS

Records generated by this document and signed by the EPC-CP certifier will be submitted to the EPC-CP Records Management designated point of contact or document manager in accordance with P1020-1, Laboratory Records Management and with ADESH-AP-006, Records Management Plan.

• EPC-CP-Form-1021, MSGP Quarterly Visual Assessment

8.0 DEFINITIONS AND ACRONYMS

See LANL Definition of Terms.

8.1 Definitions

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).

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Odor – The property or quality of waters that affects or stimulates the sense of smell. Examples of odors that may be present are burnt oil, petroleum hydrocarbon, sewage, diesel, sulfuric, or detergent odors.

Oil sheen – The presence of rainbow-like colors glistening on the surface of a liquid. The color of oil sheen will vary dependent on thickness and consistency.

Settled solids – Settled particulate material i.e., heavier than water. Examples include sand, gravel, metal turnings, and glass.

Suspended solids – Particulate materials that are floating between the bottom of the sample and the surface of the water.

Unstaffed and Inactive Sites – A facility maintaining certification with the SWPPP that it is inactive and unstaffed and visual examinations are not required.

8.2 Acronyms

See LANL Acronym Master List.

ВМР	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 Express	Maintenance Connection MC Express web application
MSGP	Multi-Sector General Permit
NPDES	National Pollutant Discharge Elimination System
SWPPP	Storm Water 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: September 29, 2008, Volume 73, Number 189

P1020-1, Laboratory Records Management

ADESH-AP-006, Records Management Plan

EPC-CP-QP-022, MSGP Corrective Actions

10.0 ATTACHMENTS

Attachment 1: Screenshot Examples of EPC-CP-Form-1021 in MC Express

Attachment 2: EPC-CP-Form-1021 Hard Copy Example

Attachment 3: Screenshot Examples of Printing from Maintenance Connection

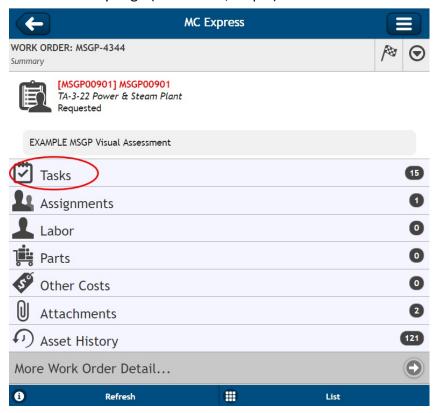
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Attachment 1 – Screenshot Examples of EPC-CP-Form-1021 in MC Express

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Work Order Summary Page (section 4.0, step 2)



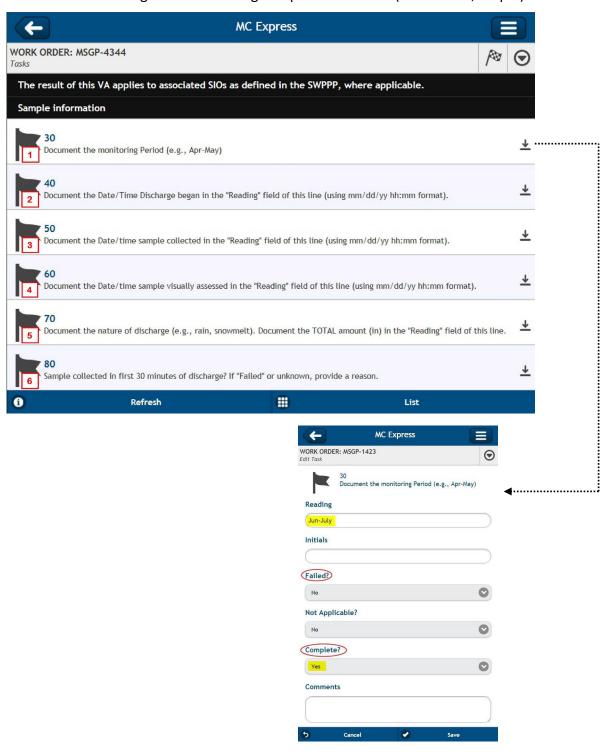
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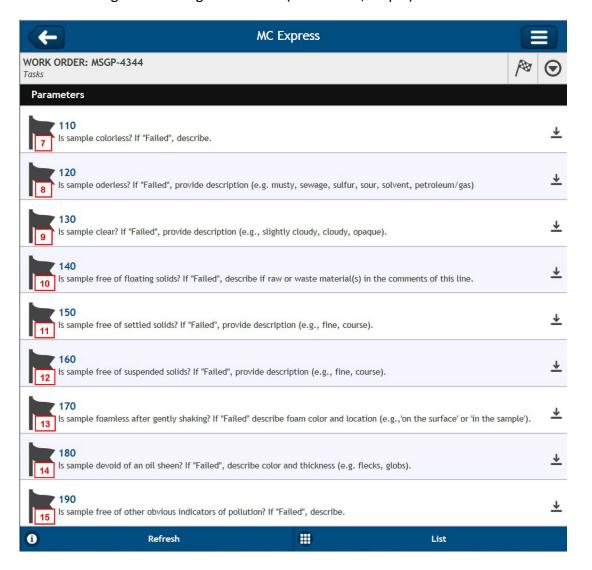
Work Order Tasks Page – Documenting Sample Information (Section 4.0, Step 3)



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Attachment 1 – Screenshot Examples of EPC-CP-Form-1021 in MC Express (cont.) Page 3 of 4

Work Order Tasks Page – Assessing Parameters (section 4.2, step 7)

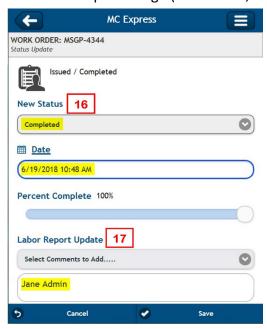


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Work Order Status Update Page (section 4.3, steps 3 and 4)



Work Order Status Update Page (section 4.3, step 6)



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Attachment 2 - EPC-CP-Form-1021 Hard Copy Example

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Work Order MSGP-4344 Los Alamos National Lab - ADESH MSGP Monitoring Stations Printed 6/19/2018 - 10:55 AM (Duplicate Copy) Maintenance Details Requested By: Admin, Jane on 6/7/2018 Target: 12/31/2018 MSGP Program 10:51:00 AM Priority/Type: / Inspection 品 RG121.9 MSGP Quarterly Visual Procedure: Department: Utilities and Infrastructure ♣ TA-3-22 Power & Steam Plant Assessment (EPC-CP-A Monitored Outfall (009) Form-1021.2) MSGP00901 Last PM: 5/5/2010 Contact: Admin, Jane Reason: EXAMPLE MSGP Visual Assessment Phone: 123-4567 Special Instructions: NMR053195 Tasks # Description Meas. No N/A Yes The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. 30 Document the monitoring Period (e.g., Apr-May) Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format) Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a Parameters 110 Is sample colorless? If "Failed", describe. Is sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, 120 solvent, petroleum/gas) 9 130 Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the 140 comments of this line. Is sample free of settled solids? If "Failed", provide description (e.g., fine, course) 160 Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course) Is sample foamless after gently shaking? If "Failed" describe foam color and location 170 (e.g., 'on the surface' or 'in the sample'). Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, 180 190 Is sample free of other obvious indicators of pollution? If "Failed", describe. Labor Report 16 Completed: 6/19/2018 10:48:00 AM 17 Report: Jane Admin

6/19/2018

I confirm the information as recorded is true, accurate and complete.

EPC-CP-Form-1021.2 09/2018

Signature / Name

MSGP Stormwater Visual Assessments

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Attachment 2 - EPC-CP-Form-1021 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-Form-1021.2 09/2018

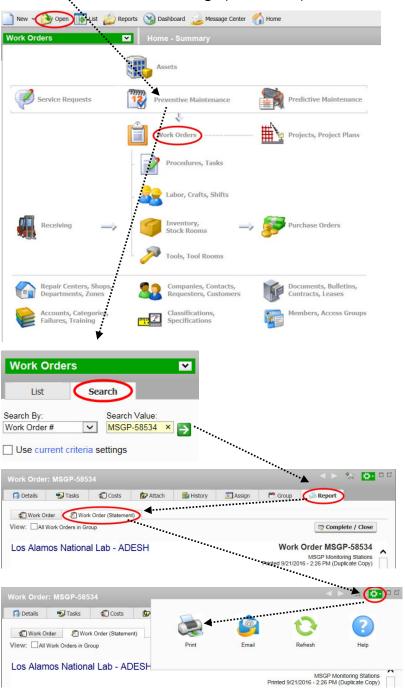
MSGP	Stormwater	Visual
Assess	ments	

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Attachment 3 – Screenshot Examples of Printing from Maintenance Connection

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Maintenance Connection Modules Page (Section 4.4)



TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 19: EPC-CP-QP-047, INSPECTING STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP

EPC-CP-QP-047	Revision: 2	Alamas
Effective Date: 09/06/2017	Next Review Date: 09/06/2020	Los Alamos NATIONAL LABORATORY EST. 1943

Environment, Safety, and Health Directorate

Environmental Protection and Compliance Division – Compliance Programs

Quality Procedure

Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP

Document Owner/Subject Matter Expert:

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I	Derivative Classifier: Ur	nclassified or DUSA <u>ENVPRO</u>			
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REVISION HISTORY

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
ENV-RCRA-QP-047, Rev. 0	03/11	New Document.
ENV-RCRA-QP-047, Rev. 1	02/13	Annual Review and Revision
EPC-CP-QP-047, Rev. 2	09/06//2017	Review and revision. Updated document to new template and new group name. Clarified steps, modified inspection form EPC-CP-Form-1010, and added crosswalk to electronic form in MC Express. This document replaces ENV-RCRA-QP-047 R1.

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1.0 INTRODUCTION

Los Alamos National Security, LLC (LANS) 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 Los Alamos National Laboratory (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 stormwater samplers and retrieving stormwater runoff samples from monitored outfall locations where LANS conducts stormwater monitoring activities pursuant to the NPDES, MSGP at LANL.

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.)

1.2 Scope

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.

The MSGP Program Lead is the primary person with responsibility for the steps in this procedure. EPC-CP personnel will be appointed with responsibility for a subset of sampling stations.

1.3 Applicability

Stormwater runoff samples are collected at MSGP Program stations either with a refrigerated Avalanche® or ISCO 3700 automated sampler, single stage sampler or grab sample. ISCOs are designed to automatically collect water when the water surface is high enough to trigger a liquid level actuator and fill the sample bottles. 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 program personnel.

2.0 PRECAUTIONS AND LIMITATIONS

Hazards in the work described in this procedure are controlled thorough site specific Integrated Work Documents (IWDs). The hazard level of the activities in this procedure is **moderate**.

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.

Inspections 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

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floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or burns).

Some terminology varies between the MC Express software and the Maintenance Connection desktop software.

- The "Reading" field in MC Express is the same field as "Reading Final" in Maintenance Connection desktop and "Meas." on a hard copy (printed) work order.
- The "Complete" option in MC Express is the same as a "Yes" answer; the "Failed" option in MC Express is the same as a "No" answer. Maintenance Connection desktop and hard copy (printed) work orders use "Yes" and "No" terminology.

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

- 1. 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.
- 2. Inform (e.g., by e-mail) Facility contacts, as specified in the IWD, of the schedule for sampler 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.

Note: For some Facility Operations Divisions (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.

- 3. The IWD Part II (2101 Form) addresses specific requirements and training for FODs.
- 4. Obtain any necessary additional paperwork before conducting this work, including IWD's, and excavation permits (as necessary).
- 5. Gather the required equipment (see section below) for the work to be done.
- 6. Using the Safari 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 using your login credentials.
- 8. Confirm that the work order list displayed in the "My Open Work Orders" section matches your sites (see example in Attachment 1). If work orders are not displayed, click the "Refresh" bar at the bottom of the page. The page will refresh and any work orders issued since you logged in will be loaded to the application. If the work order lists still do not match, contact the MSGP Data Management Team for clarification.
- 9. 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 at all times, with no daylight saving time adjustment.

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3.2 Tools and Equipment

Ensure the following equipment is available in the field vehicle:

- Safety glasses with side shields
- Sturdy hiking boots or steel toed shoes with soles that grip
- Nitrile gloves
- Cell phone (only government cell phones with batteries removed are allowed in secure areas)
- Copy of this procedure
- Copy of the Integrated Work Documents (IWDs)
- Copy of the MSGP Sampling and Analysis Plan
- Site Map(s) (as needed)
- Current electronic or paper inspection form EPC-CP-Form-1010, MSGP ISCO Sampler Inspection and Sample Retrieval
- Sample Collection Log/Field Chain of Custody (see EPC-CP-QP-048)
- Government issued iPad equipment with Safari web browser and Good™ app.
- Necessary access and station keys
- Charged spare battery(s)
- Battery voltage tester
- Clean spare tubing (pump, suction, discharge types, sampler specific)
- Certified clean replacement sample bottles (glass and poly)
- Spare/replacement sampler parts (liquid level actuator, distributor arm)
- Shovel
- Wooden stakes
- Plastic wire "zip" ties
- Coolers with ice or Blue Ice®
- Paper Towels
- Marker pen (permanent, waterproof)
- Ball point pen
- Zip lock bags
- Chain of custody seals

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0.45 micron filter (where applicable)

4.0 INSPECTING STORMWATER SAMPLERS AND RETRIEVING SAMPLES

Throughout this procedure the field inspector should document comments and notations in the "Reading" field of the associated task line. Any additional comments not documented in a "Reading" field can be entered in in the "Comments" field of the same task line. If the inspector needs 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.

4.1 Inspecting the Sampler

- 1. If conditions prevent a sampler inspection, document the conditions in the "Labor Report Update" field on the work order and notify the Program Lead or designee within 24 hours. Multiple attempts can be documented on the original inspection work order. If the target date cannot be met, the inspector must contact the MSGP Program Lead no less than 24 hours before target date for guidance.
- In MC Express open the work order issued for the current location by clicking on the
 appropriate line. If needed, use the expand arrow located on the right side of the display to
 expand the work order detail information. The work order will open in the display to the
 work order Summary page.
- 3. Click on the "Tasks" bar to navigate to the work order Tasks page.
- 4. Remove the top cover from the sampler.

4.1.1 On Arrival

5. Item 1: Verify and document the sampler is ON and its condition upon arrival by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes" (see example in Attachment 1). Explain any non-functional status (remember to use the "Reading" field unless more space is needed for comments). A hard copy inspection example is provided in Attachment 2 as a crosswalk to the electronic format.

If a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, change the "N/A" line to "Yes". Subsequent questions regarding this sampler may be left unanswered in this section.

CAUTION

Click the "Save" bar after all entries for a task line have been completed and before proceeding to the next question. Failure to "Save" results in lost data entries.

6. Item 2: Verify and document the ISCO programming displays the following by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

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ISCO 3700 sampler display should indicate "Sampler Inhibited"

OR

Avalanche sampler display should indicate "Program Disabled"

If the display does not indicate these messages, describe the messages (e.g., "Done X samples", "sampler off", etc.). If there is no indication of flow and the sampler triggered due to a non-flow event (e.g., animal, tumbleweed, etc.), describe this. Document any messages from the ISCO display.

- 7. Item 3: Verify and document the sampler is set to the correct Mountain Standard Time +/no more than 1 minute by clicking the expand arrow located on the right side of the task line
 and changing the "Complete" or "Failed" line to "Yes". If the sampler is set incorrectly,
 reprogram for the correct Mountain Standard Time. Describe the work performed and
 correction applied (e.g., "ISCO clock was X minutes slow").
- 8. If the location has more than one sampler complete Steps 5 through 7 for each sampler.
- 9. Don nitrile gloves and safety glasses.
- 10. Remove the center section from the sampler.

4.1.2 Water Collection Information

- 11. Item 4: Document any evidence of storm water flow at the sampling location by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the evidence of flow (e.g. sediment or vegetation movement, erosion, standing water).
 - If the sampler did not trip but there is evidence of flow, document the date and time storm water discharge began from the precipitation report.
 - If the sampler tripped or collected storm water, document the date/time stamp from the sampler if available or from the precipitation report.
- 12. Item 5: Document if any storm water was collected (from either a sampler or by grab sample) by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". If any water was collected, complete the Bottle Information section (Item 20). Document if the water is taken by grab sample. Follow the steps in Section 4.2 of this procedure to retrieve samples.
- 13. Item 6: For Avalanche samplers only, verify and document the current refrigerator temperature of the sampler if water was collected by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Record the temperature. If unable to review temperature, check "No" and describe the condition (e.g. dead battery, electrical short).

If no water was collected the field inspector may change the "N/A" line to "Yes".

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14. Item 7: For Avalanche samplers equipped with an ISCO pH and Temp Module, verify and document a pH measurement was taken on the collected water by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Record the pH measurement taken at the time of Bottle 1 as "Average: Minimum:Maximum." If unable to review pH, check "No" and describe the condition (e.g. damaged meter).

If no water was collected the field inspector may change the "N/A" line to "Yes".

4.1.3 Water Retrieval Information

- 15. Item 8: Verify and document whether a sample volume was retrieved (from either a sampler or by grab sample) and taken off site by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". If sample volume was retrieved, record the total volume taken off site.
- 16. Item 9: Verify and document whether a visual assessment of the water was performed by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". The MSGP program visual assessment form is not included in this procedure (see EPC-CP-QP-064). Ensure this form is submitted with the sampler inspection form. If the sample was filtered, conduct the visual assessment and document "Filtered sample."

4.1.4 On Departure

- 17. Item 10: Verify all cable and electrical connections are attached and firmly tightened (not loose) upon departure from the site by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".
 - Connections may work loose over time due to temperature changes and if there are dissimilar metals at the connection points. The loose connections can introduce voltage spikes which inherently cause current spikes that may result in blown fuses.
 - If the cables require replacement, connections require tightening, or other maintenance performed, describe the work performed (e.g., "tightened connectors on battery).
 - If maintenance cannot be completed at the time of inspection, then describe the condition (e.g. cables chewed through by animal) and follow-up work needed (e.g., replace cables).
- 18. Item 11: Verify and document power supply function. Use a voltage meter to check the voltage of the battery(s) and record the voltage(s). Change the "Complete" or "Failed" line to "Yes" to indicate if battery voltage is acceptable upon departure from the station (≥11.7 for non-floating charged batteries at ISCO 3700 samplers and ≥11.0 for floating-charged batteries at Avalanche samplers).
 - Check the voltage of the solar panel if access can be gained to the weather protected terminal covers on the back of the panel.

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4.1.5 Equipment Specific Tasks

19. Item 12: Verify and document the sampler passes the diagnostic test by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Directions for running the diagnostics test is provided in ENV-CP-QP-045.

If a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, change the "N/A" line to "Yes" on this task line. Subsequent questions regarding this sampler may be left unanswered in this section.

Warning

The internal pump tubing must be replaced if the pump tubing life has reached or exceeded the preset pump counts. The internal pump tubing life is set 500,000 pump counts for the 3700 and 1,000,000 for the Avalanche.

Only reset the pump counts after replacing the internal tubing.

If maintenance is necessary and can be performed at the time of inspection, describe the work performed. If maintenance cannot be completed at the time of inspection, then describe the condition and follow up with a description of work needed.

If a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, change the "N/A" line to "Yes" on this task line. Subsequent questions regarding this sampler may be left unanswered in this section.

20. Item 13: Verify and document the sample tubing is free or clear of debris by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

Check the physical condition of the sampler including the actuator and intake line for correct location and height in the channel. The actuator, intake line and strainer (if used) should be placed on the cutting side of the channel to help minimize the possibility of sediment burying the intake line/strainer. Adjust as necessary to capture flow within the channel. The actuator, intake line and strainer must be clear of debris (sediment, pine needles, etc.).

If maintenance (e.g., clearing the tube, reposition tubing intake) is necessary and can be performed at the time of inspection, perform the work and describe. If maintenance cannot be completed at the time of inspection (e.g., can't clear intake tubing and spare intake tubing not on hand to replace) then describe the condition and follow up with description of work needed.

21. Item 14: Verify and document the sample tubing has passed a suction test by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Check the condition of sample tubing and vent tubing.

If maintenance (e.g., replace internal pump tubing) is necessary and can be performed at the time of inspection, perform the work and describe. If maintenance (e.g., replace sampler

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pump) cannot be completed at the time of inspection then describe the condition and follow up with description of work needed.

- 22. Item 15: Verify and document the sampler is ON prior to departing the site by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".
- 23. Item 16: Verify and document the liquid level actuator has been set to "Latch" prior to departing the site by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". If the sampler tripped and requires reset of the sampling program, reset the actuator by toggling the switch to "Reset" and then back to "Latch".
- 24. Item 17: Verify and document the ISCO programming displays the following by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

ISCO 3700 sampler display should indicate "Sampler Inhibited"

OR

Avalanche sampler display should indicate "Program Disabled"

If an error occurs, reconfigure the sampler per EPC-CP-QP-045.

25. If the location has more than one sampler complete Steps 19 through 24 for each sampler.

4.1.6 Maintenance Information

26. Item 18: Verify and document any maintenance completed while on site that is not documented elsewhere on work order by changing the "Complete" or "Failed" line to "Yes". Describe the work performed.

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.

If a battery was replaced record the voltage of the new battery and the battery identification number. If the battery does not have an identification number, contact the MSGP Program Manager to have one assigned. Once assigned, the number must be painted or written in a permanent manner on the battery.

27. Item 19: Verify and document any maintenance needed that could not be completed while on site that is not documented elsewhere on work order by changing the "Complete" or "Failed" line to "Yes". Describe any work needed. Refer to EPC-CP-QP-045 for sampler operation and maintenance.

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4.1.7 Bottle Information

- 28. Item 20: Document water collected by clicking the expand arrow located on the right side of each bottle's task line and change the "Complete" or "Failed" line to 'Yes'. Record the following information for each bottle by position number in the carousel.
 - Date (MM/DD/YY or MM-DD-YY) and time the ISCO collected water.
 - Volume of water in the bottle
 - Type of bottle (e.g. G for glass, P for poly)
 - Specific ISCO displayed message, if present

If the sampler(s) did not trigger, change the "N/A" line to 'Yes' for Bottle #1 of each sampler and leave the other Bottle task lines unanswered.

If a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, change the "N/A" line to "Yes" on this task line. Subsequent questions regarding this sampler may be left unanswered in this section.

- 29. If the location has more than one sampler complete Step 28 for each sampler.
- 30. Replace and secure the sampler top cover and secure the sampler shelter (if sampler is in a shelter).

4.2 Retrieving Samples

- 1. Don nitrile gloves and safety glasses.
- 2. Add up the volume of water collected (see flow chart in Attachment 3) and check that the total volume of water in glass and poly matches the required volume for the specific location identified in the MSGP Sampling and Analysis Plan. The volume of water required to complete analytical may vary by monitored location.
 - If sample volume is sufficient to fulfill all analytical requirements, continue with Step 3.
 - If sample volume is sufficient to fulfill part of the analytical requirements, consult the
 prioritization order on the MSGP Sampling and Analysis Plan to determine which
 analytical to fulfill OR contact the MSGP Data Manager, continue with Step 3 but retrieve
 only the volume needed.
 - If the collected sample will NOT fulfill the minimum required volume for any analytical:
 - Record total volume retrieved as "0" in Item 8
 - Complete a Visual Assessment (see EPC-CP-QP-064)
 - Pour out all water on the ground
 - Skip to Step 10 below

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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. Refer to the MSGP Sampling and Analysis Plan for preservation requirements.

- 3. Remove filled and partially-filled bottles from the carousel.
- 4. For samples retrieved, immediately place lids onto the sample bottles and securely seal. Place custody seal tape on each bottle.
- 5. Write the date and time collected, Sampler Location number, and the corresponding carousel number on each retrieved sample bottle. Retrieve the sample collection date and time from the ISCO sampler.
- 6. Record total volume retrieved in Item 8.
- 7. Conduct a Visual Assessment (see EPC-CP-QP-064).
- 8. Place retrieved sample bottles in a cooler with blue ice (or equivalent).
- 9. Return any excess water or collected volume that exceeded the amount required to the ground at the location collected.
- 10. Install new certified clean sample bottles in the carousel to replace those bottles that collected stormwater. The number and type of bottles may vary. Ensure bottles match the configuration specified in the MSGP Sampling and Analysis Plan.
- 11. The 0.45 micron filter may also need to be replaced. Consult the most current revision of the Sampling and Analysis Plan for specifics. If the sampler is turned off for the quarter but new certified clean sample bottles and/or the filter have not been replaced, note this as follow-up maintenance required (see Item 19).
- 12. Replace and secure the center section of the sampler.
- 13. Return to steps in Section 4.1.

4.3 Completing the Inspection Form

- 1. When 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.

CAUTION

MC Express automatically changes the work order status to "Closed" and auto-populates the date and time fields.

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- 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. Ensure the date and time autopopulated are the date and time the inspection was completed.
 - If these fields need to be updated, click the "Date" field to modify it. Make necessary adjustments using the available timestamp application and click "Set" to apply changes.
- 6. Item 22: The inspector must type in his/her name in the "Labor Report Update" field.
 - Any additional notes, observations, or site conditions not documented in a task line "Reading" or "Comments" field can also 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.
- 8. Item 23: 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:** If using MC Express on a desktop screen (not a tablet), the mouse must be used to sign electronically.
- 9. Click on the "Save" bar at the bottom of the page to close the "Signature" field.
- 10. Click on the "Back" button located in the upper left hand corner to return to the "My Open Work Orders" page.
- 11. Once you have completed an inspection, click on the Menu button again, and then click the "Logout" bar. Close the browser. All work will automatically uploaded from the MC Express application to the MC database.

Always log out of MC Express when you have finished work OR if work is interupted.

4.4 REMOVING STORMWATER SAMPLES FROM THE FIELD

- 1. If samples were collected, deliver the samples and corresponding Sample Collection Log/Field Chain of Custody form to the EPC-CP Stormwater Program Laboratory at TA-59-1.
- 2. Sign the Sample Collection Log/Field Chain of Custody and place it with the sample(s) in the refrigerator. Ensure custody seal tape is intact on each sample bottle. Lock the refrigerator to prevent tampering. Refer to EPC-CP-QP-048, *Processing MSGP Stormwater Samples* for instruction on processing samples and submitting samples for shipping to an analytical laboratory.

5.0 TRAINING

The following personnel require training before implementing this procedure:

• EPC-CP technical staff and subcontract or other personnel who inspect automated stormwater samplers and retrieve stormwater samples for the MSGP.

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Samplers & Retrieving Samples
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For EPC-CP staff the training method for this procedure is "self-study" (reading). Other participating groups may require training documentation pursuant to local procedures.

Personnel performing this procedure will be familiar with the most current versions of the following procedures and operation manuals:

- EPC-CP MSGP Sampling and Analysis Plan for the current monitoring year
- Manual for Teledyne ISCO Sampler Model 3700
- Manual for Teledyne ISCO Avalanche® sampler
- Manual for Teledyne ISCO 701 pH/Temperature module (if equipped at station)

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.

6.0 RECORDS

Records generated by this document will be submitted to the EPC-CP Records Management designated point of contact or document manager in accordance with P1020-1, *Laboratory Records Management* and with ADESH-AP-006, *Records Management Plan*.

Completed ISCO Sampler Inspection and Sample Retrieval form(s)

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL Definition of Terms.

7.2 Acronyms

See LANL Acronym Master List.

EPC-CP	Environmental Protection and Compliance-Compliance Programs
IWD	Integrated Work Document
LANL	Los Alamos National Laboratory
LANS	Los Alamos National Security, LLC
MC Express	Maintenance Connection MC Express web application
MSGP	Multi-Sector General Permit
NPDES	National Pollutant Discharge Elimination System

8.0 REFERENCES

None.

Inspecting Storm Water Runoff	
Samplers & Retrieving Samples	
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9.0 ATTACHMENTS

Attachment 1: Screenshot Examples of EPC-CP-Form-1010.02 in MC Express

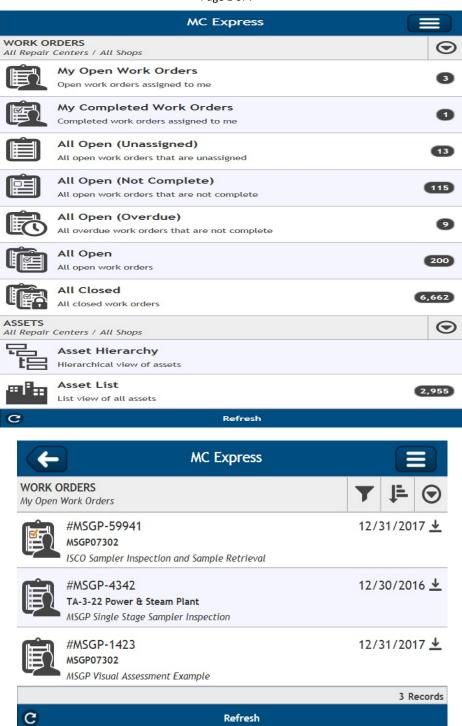
Attachment 2: Crosswalk of EPC-CP-Form-1010.02 Hard Copy Format to Electronic Format Example

Attachment 3: Flow Chart for Sample Retrieval

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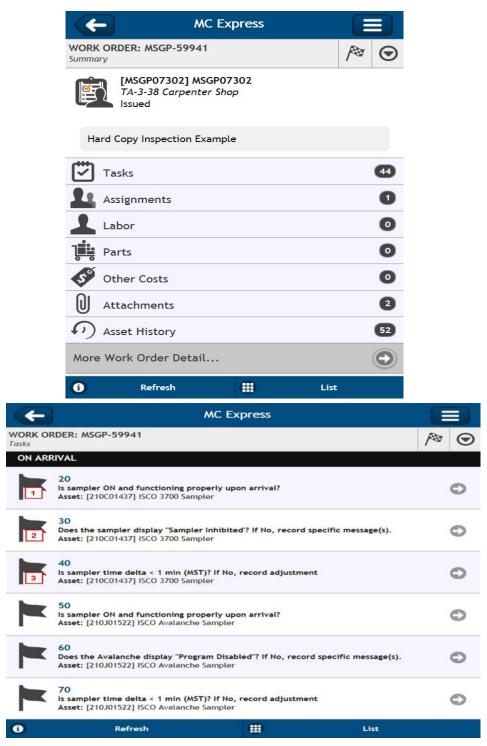
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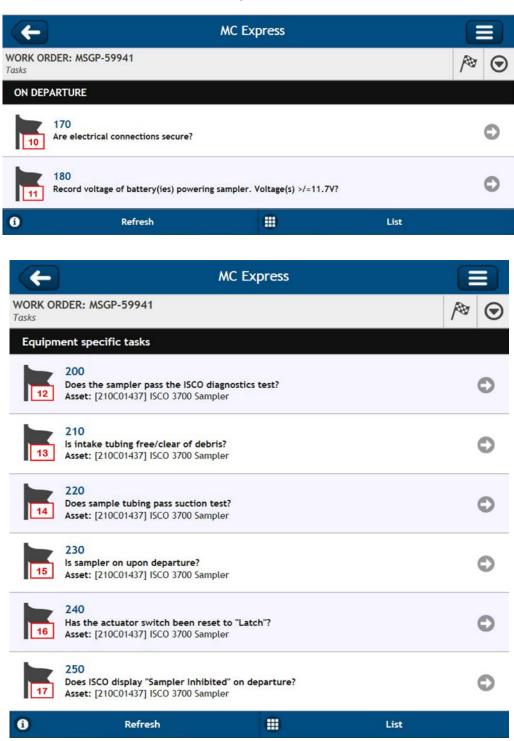




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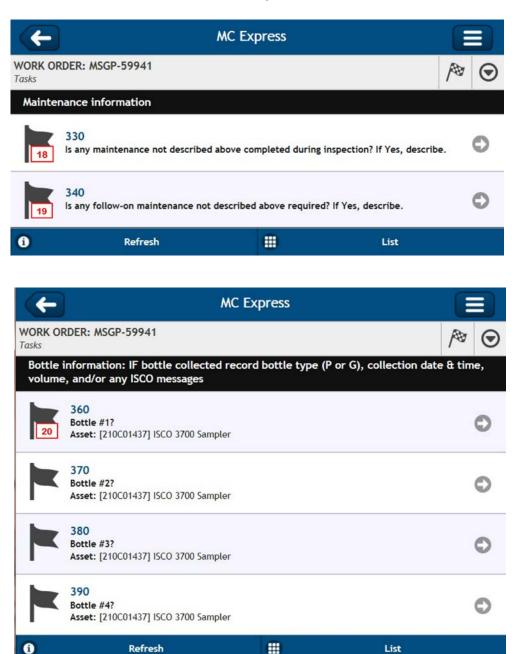
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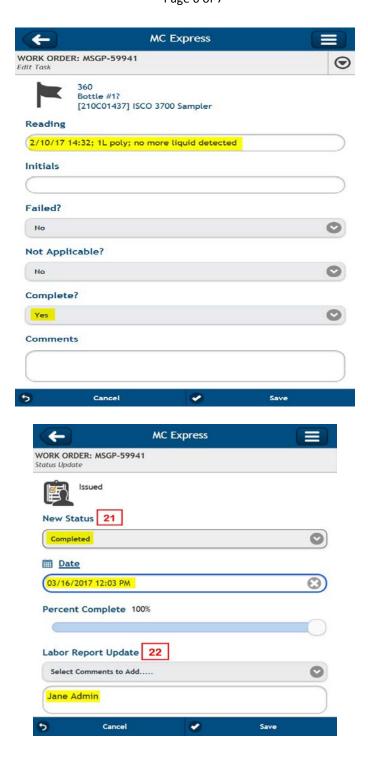


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Attachment 1: Screenshot Examples of EPC-CP-Form-1010.02 in MC Express (cont.)

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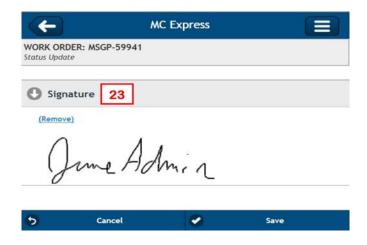


Inspecting Storm Water Runoff
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Attachment 1: Screenshot Examples of EPC-CP-Form-1010.02 in MC Express (cont.)

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Attachment 2: Crosswalk of EPC-CP-Form-1010.02 Hard Copy Format to Electronic Format

rage 1 O	1.2
Los Alamos National Lab - ADESH	Work Order MSGP-59941
	MSGP Monitoring Stations Printed 8/10/2017 - 11:25 AM (Duplicate Copy)

	Mainten	nance Details			Printed	8/10/2017 -			ing Stations licate Copy
	Procedu	MSGP ISCO Sampler Inspection and Sample Retrieval (EPC-CP- Form-1010.2.2)	Target: Priority/Type: Department:	12/31/2017 / Inspection Utilities and Infrastructure	♣ RG12 ♣ TA-3-	38 Carpent ored Outfa		,	
	Last PM				Contact	Admin, Ja	ne		
	Project:	ISCO Inspections wk 8/7/17 (P-MSGP-5212)				123-4567			
	Reason:	Hard Copy ISCO Sampler Insp	ection and Sampl	e Retrieval					
F	Tasks –								
	#	Description				Meas.	No	N/A	Yes
Ļ	ON ARE								
1	20	ISCO 3700 Sampler [210C0143							
2	30	ISCO 3700 Sampler [210C0143 record specific message(s).	37] Does the sam	pler display "Sampler Inhibite	d'? If No,				
F	50	ISCO 3700 Sampler [210C0143	371 Is sampler tim	e delta < 1 min (MST)2 If No.	record			1.0	100
3	40	adjustment	27] io sampler tim	e della - Titili (MOT): ITTO	record				
Т		ISCO Avalanche Sampler [210	J01522] Is sampl	er ON and functioning prope	rly upon				
	50	arrival?						-1	
	60	Disabled"? If No, record specific	message(s).	, , , , , , , , , , , , , , , , , , , ,					
	70	ISCO Avalanche Sampler [210 record adjustment	J01522] Is sampl	er time delta < 1 min (MST)?	If No,			П	
	Water C	Collection information							
4	90	Is there evidence of flow? If YES of discharge.	6 (but no water co	llected), describe and record	date/time		п	П	п
5	100	Is any water collected? If YES, of	complete Bottle In	formation section.					
6		ISCO Avalanche Sampler [210 refrigerator temperature (C).					П	П	П
Т		ISCO pH and Temp Module [2	11C01137] If wate	er was collected, record the p	Н				
7	120	measurement corresponding to MAXIMUM:	the sample date/t	ime: AVERAGE: MINIMUM:				П	
	Water F	Retrieval information							
8	140	Was sample volume RETRIEVE	D? If Yes, record	total volume retrieved.					
9	150	Was a Visual Assessment perfo form (EPC-CP-TP-064).	rmed? If Yes, con	nplete the MSGP Visual Asse	ssment		П	П	П
	ON DEF	PARTURE							
10		Are electrical connections secur	e?				E		Ε.
11		Record voltage of battery(ies) po		Voltage(s) >/=11.7V?					
Т									
12	200	ent specific tasks ISCO 3700 Sampler [210C0143	71 Doos the sam	plar page the ISCO diagnosti	ce toet?				-
13		ISCO 3700 Sampler [210C0143			os test?			-	-
14		ISCO 3700 Sampler [210C0143					+		
15		ISCO 3700 Sampler [210C0143					-	÷	
16		ISCO 3700 Sampler [210C0143			:h"?				<u> </u>
-	250	ISCO 3700 Sampler [210C0143 departure?			00		п.	П.	

Inspecting Storm Water Runoff Samplers & Retrieving Samples for the MSGP

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Attachment 2: Crosswalk of EPC-CP-Form-1010.02 Hard Copy Format to Electronic Format (cont.)

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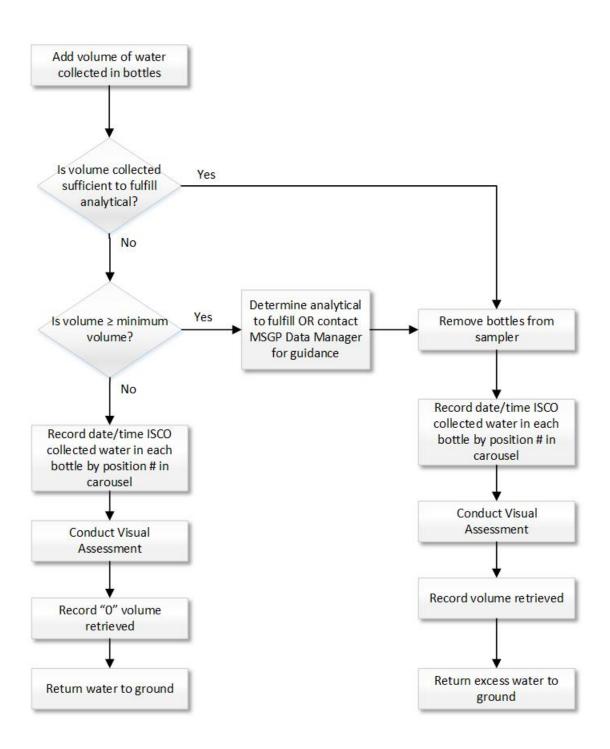
	260	ISCO Avalanche Sampler [210J01522] Does the sampler pass the ISCO diagnostics test?			
	270	ISCO Avalanche Sampler [210J01522] Is intake tubing free/clear of debris?			
	280	ISCO Avalanche Sampler [210J01522] Does sample tubing pass suction test?			
	290	ISCO Avalanche Sampler [210J01522] Is sampler on upon departure?			
	300	ISCO Avalanche Sampler [210001022] Is sampler on upon departure? ISCO Avalanche Sampler [210J01522] Has the actuator switch been reset to "Latch"?	-		-
	300			-11	
	310	ISCO Avalanche Sampler [210J01522] Does Avalanche display "Program Disabled" on departure?			
	Mainten	ance information			
18	330	Is any maintenance not described above completed during inspection? If Yes, describe.		ET.	П
19	340	Is any follow-on maintenance not described above required? If Yes, describe.			
Ι		nformation: IF bottle collected record bottle type (P or G), collection date & time, volume, and/o	or any Is	sco	
20	360	ISCO 3700 Sampler [210C01437] Bottle #1?		100	
Т	370	ISCO 3700 Sampler [210C01437] Bottle #2?			
	380	ISCO 3700 Sampler [210C01437] Bottle #3?			
	390	ISCO 3700 Sampler [210C01437] Bottle #4?			
	400	ISCO 3700 Sampler [210C01437] Bottle #5?			
	410	ISCO 3700 Sampler [210C01437] Bottle #6?			
	420	ISCO 3700 Sampler [210C01437] Bottle #7?			
	430	ISCO 3700 Sampler [210C01437] Bottle #8?			-
	440	ISCO 3700 Sampler [210C01437] Bottle #9?			
	450	ISCO 3700 Sampler [210C01437] Bottle #3?	무		
	460				
		ISCO 3700 Sampler [210C01437] Bottle #11?		ᄪ	
	470	ISCO 3700 Sampler [210C01437] Bottle #12?			
	480	ISCO Avalanche Sampler [210J01522] Bottle #1?			
	490	ISCO Avalanche Sampler [210J01522] Bottle #2?			
	500	ISCO Avalanche Sampler [210J01522] Bottle #3?		-21	
	510	ISCO Avalanche Sampler [210J01522] Bottle #4?			
	Report:	ted: 5/30/2017 4:44:00 PM Jane Admin 5/30/2017 Signature / Name The information as recorded is true, accurate and complete.		Date	
W	D ID:	Pageof			
Day	tor	Time:			
Lea	ad Signati	ıre:			

Inspecting Storm Water Runoff
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for the MSGP

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Attachment 3: Flow Chart for Sample Retrieval

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TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 20: EPC-CP-QP-2106, PROCESSING MSGP STORMWATER SAMPLES

EPC-CP-QP-2106	Revision: 0	Los Alamos
Effective Date: 10/18/2019	Next Review Date: 10/18/2022	NATIONAL LABORATORY EST. 1943

Environment, Safety, Health, Quality, Safeguards, and Security Directorate

Environment Protection and Compliance – Compliance Programs Group

Quality Procedure

Processing MSGP Stormwater Samples

Hazard Grading:	\boxtimes Low	☐ Moderate	☐ High/Complex	
Usage Level:	□ Referen	ce UET	Mixed: UET Sections:	
Status:	☐ New	Major Revision	Minor Revision	
	Review	w/No Changes	Other: New EPC-CP format an	d 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
	Deriv	ative Classifier: 🔀 L	Inclassified or	_
Name:	Name: Organization: Signature: Date:			
Steven E. Wolfel	EPC-CP		Signature on File	10-17-19
Approval Signatures:				
EPC-CP Reviewer:		Organization:	Signature:	Date:
Terrill W. Lemke		EPC-CP Team Leader	Signature on File	10-17-19
EPC-CP RLM:		Organization:	Signature:	Date:
Taunia Van Valkenb	urg	EPC-CP Group Leader	Signature on File	10-18-19

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Users are responsible for ensuring they work to the latest approved version. To document a required read, Login to <u>UTrain</u>, and go to the Advanced Search.

Processing	MSGP	Stormwater
Samples		

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Revision: 0	Effective Date: 10/18/2019

REVISION HISTORY

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
ENV-RCRA-QP-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.

Processing MSGP Stormwater Samples

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Revision: 0 Effective Date: 10/18/2019

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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 <u>LOW</u>. 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.
 - <u>IF</u> a visual assessment <u>WAS NOT</u> performed, THEN write N or No in the Visual Inspection space.
 - <u>IF</u> a visual assessment <u>WAS</u> performed, <u>THEN</u> 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] <u>IF</u> the person who retrieved the sample is processing, <u>THEN</u> write N/A in the first RELINQUISHED BY and RECEIVED BY boxes.
- [6] <u>IF</u> 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, HNO₃).
 - [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] <u>IF</u> the SPECIAL INSTRUCTIONS box is not pre-populated, <u>THEN</u> 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] <u>IF</u> no further processing is required (e.g., chemical preservation), <u>THEN</u> 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 overpressurization.
 - 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 (HNO₃), and sulfuric acid (H₂SO₄). 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] <u>IF</u> you only have one size pre-measured preservative that does not match the sample container size, <u>THEN</u> 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, HNO₃).

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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] <u>IF</u> 500 mL or greater remain in the bottle, <u>THEN</u> replace lid and mark the bottle with the date it was opened and "For Decon Use Only".
 - [b] <u>IF</u> less than 500 mL remain in the bottle, <u>THEN</u> 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, HNO₃).
 - [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] <u>IF</u> any excess stormwater sample exists after processing has been completed, <u>THEN</u> 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] <u>IF</u> the excess stormwater has been altered (e.g., tap water or preservative added), <u>THEN</u> 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] <u>IF</u> the person who processed the sample is NOT submitting the samples to the SMO, <u>THEN</u>
 - [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 (≤4° 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	\boxtimes	
*Chain of Custody/Analysis Request	\boxtimes	
Copy of log book entry(s) (if a log book is used)	\boxtimes	
Other pertinent field or lab notes (if additional notes are required)	\boxtimes	

^{*}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

Processing MSGP Stormwater Samples

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Attachment 1: Water Sample Collection and Processing Log/Field Chain of Custody Example

(Page 1 of 1)

Los Alamos National Laboratory

WATER SAMPLE COLLECTION AND PROCESSING LOG/FIELD CHAIN OF CUSTODY

EVENT ID:

11743

EVENT NAME: MSGP 2018

SAMPLE ID:

MSGP-18-153015

16:03

WORK ORDER: MSGP-12345

COLLECTION

DATE/TIME:

RETRIEVAL DATE/TIME:

LOCATION ID:

MSGP04301

SAMPLER TYPE: APS-R

LOCATION TYPE: WCS

SAMPLE PREP: UF

LOCATION

SYNONYM(S): NA

FIELD QC TYPE: REG

FIELD MATRIX: WT

SAMPLE USAGE: COMP.

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS	PROCESSING COMMENTS
Alu	MSGP-TSS	ML POLY	1	ICE	X	NIA	Alu

SAMPLE COMMENTS: NA

FIELD PARAMETERS:

Sample Time NA HH:MM

Visual Inspection WO# MSGP- 67890

The state of the s			
COLLECTED BY Jane Doe (Printed Name) (Signature)	Date/Time 07/03/18 09:25		
RELINQUISHED BY (Printed Name) (Signature)	Date/Time 07/03/18 10:05	RECEIVED BY (Printed Name) (Signature)	Date/Time 07/03/18 10:05
PROCESSED BY (Printed Name) (Signature)	Date/Time 07/03/18 13:∞		
RELINQUISHED BY John Smith (Printed Name) (Signature)	Date/Time 07/04/18 08:35	RECEIVED BY (Printed Name) (Signature) See CoC# 20(7-1326	Date/Time
RELINQUISHED BY (Printed Name) (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 (Page 1 of 1)

Los Alamos National Laboratory									
Sample ID: MSGP-17-131786									
Container: 500 ML POLY			1 of 1						
Preservative: HNO3 ICE									
Analysis: NPDES-Al-Total Recoverable	*								
Date/ 04/01/2017	Time:	16:03							

	os Alamos N	ational Labor	atory
Sample ID: N	ISGP-17-131787		
Container:	500 ML POLY	1-	1 of 1
Preservative:	HN03 ICE		
Analysis: NP	DES-Al-Total Recover	able	-
Date/	04/01/2017	Time: 16:03	31.15

Processing M	SGP Stormwate	r
Samples		

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Attachment 3: Chain of Custody/Analysis Request Example

(Page 1 of 1)

LANL SMO	Chain of Custody/Analysis Request										4,	2017-1326	est#:											
Los Alamos NM									×	Page 1 of 1														
Client Contact:				Site	Site Name: Los Alamos National Laboratory									1 6	Rad Screening	Info:								
	Project Num Analysis Tum 24 Hour - 7 Days - 14 Days - 21 Days - 28 Days -	naround Time: Other-		-Zn		(_ab Reporting I	_imit Typ
Field Sample ID	Sample Date	Sample Time	Sample Matrix	MSGP-Zn																				
MSGP-17-131904	Apr 1 2017	16:03	W	1																				
MSGP-17-132187	Apr 1 2017	16:03	W	1						<										+	-			
																			-	+	-			
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TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 21: ENV-DO-QP-101, ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS

EPC-DO-QP-101	Revision: 3	Los Alamos
Effective Date: 08/07/2017	Next Review Date: 08/07/2020	NATIONAL LABORATORY —— EST. 1943

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:

Name:	Organization:	Signature:	Date:				
Brian Iacona	EPC-CP	Signature on File	4-27-17				
ι	Derivative Classifier: 🛛 Unc	lassified or DUSA <u>ENVPRO</u>					
Name:	Derivative Classifier: Unc	lassified or DUSA ENVPRO Signature:	Date:				

Approval Signatures:

Subject Matter Expert:	Organization:	Signature:	Date:
Brian Iacona	EPC-CP	Signature on File	4-27-17
Responsible Line Manager:	Organization:	Signature:	Date:
Michael Saladen	EPC-CP, Team Leader	Signature on File	7-21-17
Responsible Line Manager:	Organization:	Signature:	Date:
	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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Environmental Reporting Requirements	
for Releases or Events	

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REVISION HISTORY

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
0	02/09	New document
1	4/10	Revision and update
ENV-DO-QP-101 R2	6/12	Biennial Review/Revision, new template implemented.
EPC-DO-QP-101 R3	08/07/17	Revision and update. This document replaces ENV-DO-QP-101 R2. New document number reflects organizational name change.

Environmental Reporting Requirements for Releases or Events

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Revision: 3 Effective Date: 08/07/2017

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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 <u>not</u> 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").

Environmental Reporting Requirements	EPC-DO-QP-101	Page 5 of 23
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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 <u>remaining steps in this procedure may be passed to that person.</u>

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.

If the spill is ...

equal to or over 1 pound by weight of PCBs (TSCA) or greater than 270 gallons of untested mineral oil suspected of containing PCBs

Then...

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, <u>and</u>
- 2. The person or non-target organism suffered a toxic or adverse effect.

The phrase <u>toxic or adverse effect</u> 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 <u>toxic or adverse effects</u> 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). Compare this quantity against the RQs provided in 40 CFR Table 302.4 and 40 CFR §355, Appendices A and B.		
2			
3	discovery) reporting to the NRC and th the RQ has been exceeded. Note that units (curies or becquerels). Also note	tive materials, immediate (within 15 minutes of e EPA Region 6, Regional Health Physicist is required if for radioactive materials, the RQ is provided in activity that some materials have an RQ value for both chemical gical exposure (Appendix B to §302.4). In these cases, the f material will apply.	
For all radioactive material releases, a radiological dose assessment must a within 24 hours of the release. This dose assessment should be made by an health physicist in EPC-CP or EPC-ES. The on-call individual should contact a physicist for this evaluation.		se assessment should be made by an environmental	
	Immediate evaluation – RQ comparison (of a radioactive material release)		
	If the release	Then	
	Is equal to or greater than the RQ	Proceed to section 4.10 Reporting a Release or Event.	
	Is less than the RQ	No immediate reporting is required; contact EPC environmental health physicist to complete follow-up dose assessment.	
4	If this is a release of non-rad material,	it is reportable if the RQ is exceeded.	
	If the amount released is,	Then	
	Equal to or greater than the RQ	Proceed to Section 4.10 Reporting a Release or Event.	
	Less than the RQ	Proceed to Step 5	
5	Continue to re-evaluate the release as as necessary.	new data becomes available. Perform Steps 1 through 4	

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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 oncall 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:

Step	Action
1	Compile release information including :
	The source, cause, type and quantity of the release
	Time and duration of the release
	Extent of any protective and corrective actions taken
	 Name, address, and telephone number of the person to contact for further information
	Whether the substance is an HS or EHS
	 Associated health risks and medical attention necessary for exposed individuals
	 If available, information concerning the release of any hazardous and/or mixed waste which may endanger public or private drinking water supplies
	 Assessment of actual or potential hazards to human health or the environment outside the facility
	 If available, estimated quantity and disposition of recovered material that resulted from the incident
	 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
	 Any other information which may help emergency personnel responding to the incident
	Environmental media impacted from the release
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.

Step	Action
1	Determine that a release to the environment is reportable to state or federal entities as

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	required under applicable regulations.
	NOTE: Occurrence Reporting and Procession System (ORPS) reporting is a FOD and Responsible Associate Director (RAD) responsibility and commonly they will seek advisement from EPC SMEs.
2	Provide notification to the EPC-CP Water Quality Team Leader, the EPC-CP Group Leader, 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

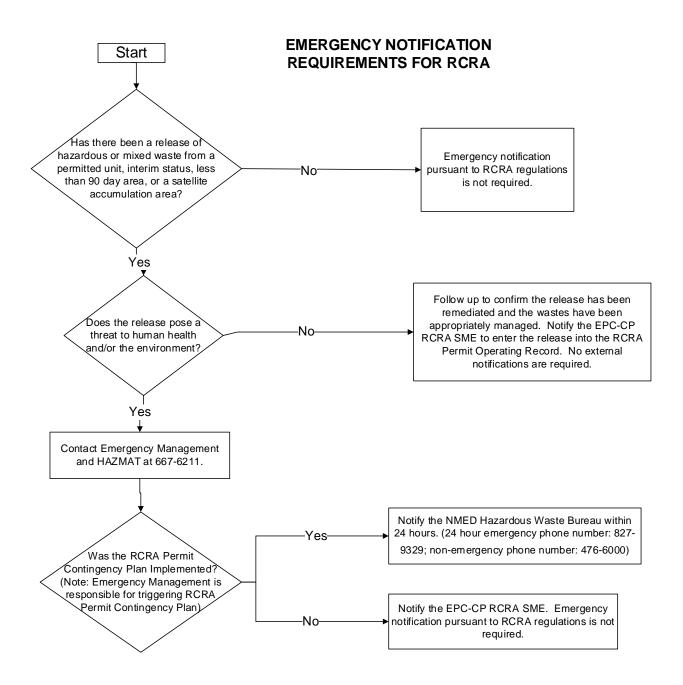
Attachment 1: Emergency Notification Requirements for RCRA

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).

Environmental Reporting Requirement	S
for Releases or Events	

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STATUTE	REGULATIONS	INCIDENT	Immediate Reporting Requirements	Follow Up Reporting Requirements
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.

Environmental	Reporting	Requirements
for Releases or	Events	

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STATUTE	REGULATIONS	INCIDENT	Immediate Reporting Requirements	Follow Up Reporting Requirements
Resource Conservation and Recovery Act (RCRA)	40 CFR 262.34, 263.30, 264.51, 264.56 & .196, 265.51, .56 & .196, 270.14, & .30, 273.17, .37 & .54, 279.43 & .53, 280.50, .52, .53, .60, &.61	Release of hazardous or mixed waste from a permitted unit, interim status, less than 90 day area or a satellite accumulation area which the RCRA Permit Contingency Plan was triggered.	Notify NMED Hazardous Waste Bureau within 24 hours (24 hour emergency phone number: 827-9329; Non-emergency phone number: 476-6000) See Attachment 1 for additional details.	Submit written report to NMED HWB within 5 days.
Clean Air Act/ Radionuclide NESHAP	40 CFR 61, Subpart H	Airborne release of radioactive material in excess of an RQ.	Notify the EPA Region 6 Health Physicist (Office- (214) 665-8541; Mobile- (214) 755-1530; Home – (972) 937-1900) immediately after providing notification to the NRC.	Follow-up 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.

TA-60-02 Salvage/Warehouse

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 22: ENV-CP-QP-007, SPILL INVESTIGATION

ENV-CP-QP-007	Revision: 10
Effective Date: 09/30/15	Next Review Date: 09/30/18



Environment, Safety, Health Directorate

Environmental Protection – Compliance Programs

Quality Procedure

Spill Investigations

Reviewers:

		1	
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Deriv	ative Classifier: 🛛 Un	classified DUSA ENVPRO	
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Responsible Line Manager:	Organization:	Signature:	Date:
	ENV-CP, Group Leader	Signature on File	09/30/15

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History of Revisions

Document Number [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
0	12/98	New Document.
1	06/00	Annual review, added Cerro Grande fire hazards
2	07/01	Annual review
3	06/03	Annual review
4	04/04	Annual review, changes to HCPs
5	02/07	Annual review, changes to reflect organizational restructure
6	07/08	Annual review
7	09/10	Biennial Review and revision
8	04/11	Removed prerequisites, added note re: on-call spill reporting.
9	07/13	Biennial review and revision, implemented new procedure format.
10	09/30/15	Biennial review and revision, implemented new procedure format. Controlled the updated LANL ENV-CP Unplanned Release Report.

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1.0 PURPOSE

This Environmental Protection Division – Compliance Programs Group (ENV-CP) procedure describes processes and implements requirements for spill investigations.

2.0 SCOPE

This procedure applies to all ENV-CP staff and personnel conducting spill investigations.

2.1 HAZARD REVIEW

The work described in this procedure is <u>field work</u> and has a <u>LOW hazard</u> rating as documented by submittal of a completed <u>ENV Low Hazard Verification form</u>.

3.0 RESPONSIBILITIES

The following personnel require training before implementing this procedure:

• ENV-CP staff and contract personnel who perform spill response and investigation.

Annual re-training to this procedure is required. Specific training requirements will be updated as needed.

The training method for this procedure is required reading and on-the-job training (OJT). The OJT is to be conducted by a Team Leader or person designated as Subject Matter Expert (SME) by the ENV-CP Group Leader. This training will be documented in accordance with ENV-DO-QP-115, *Personnel Training*.

Actions specified within this procedure, unless proceeded with "should" or "may," are to be considered mandatory (i.e., "shall", "will", "must").

3.1 Prerequisites

None

4.0 WORK PROCESSES

Responsibility is to assure the immediate mitigation and timely notification of appropriate regulatory organizations in the event of a spill or unplanned discharge that has or may affect the environment. Work requires frequent and unscheduled site visits to any area of the Laboratory during a spill or unplanned release as support staff for the on-scene Security and Emergency Operations (SEO) Incident Commander.

Specific activities associated with Spill Response and Investigation:

- Respond to the spill or unplanned release site;
- Report to the On-Scene SEO Incident Commander and Site Safety Officer;
- Receive site safety requirements;
- Provide decision support;
- Investigate the nature and extent of the spill or unplanned release;

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- Evaluate the potential environmental impact to water quality;
- Report the occurrence to the regulatory agencies, if necessary; and
- Provide support to mitigation plan and implementation.

4.1 FIELD ACTIVITY

If the spill or unplanned discharge is determined to be a non-emergency event by SEO response, such as a release of potable water, perform the following steps:

Step	Action
1	Perform a site visit in coordination with the Facility
	Operations Director designee.
2	Assess potential environmental damage.
3	Provide mitigation measures and requirements.
4	Document the event.
5	Notify regulatory agencies and DOE, if necessary.
6	Facilitate collection of samples, if necessary.

For emergency response, perform the following steps:

Step	Action
1	Report to on-scene commander and await instructions.
2	Perform a site visit in coordination with SEO.
3	Adhere to access requirements as developed by the SEO Site Safety Officer and Incident Commander.
4	Identify and document the source and cause of the release.
5	Provide notification and written report if necessary.
6	Facilitate collection of samples if necessary and safe to do so.

If sample collection is required, contact the following sampling personnel:

- ENV-CP
 - NPDES outfall
 - Sanitary treatment solids
- WM-SVS
 - Wastes and chemical spills (liquid, solid, hazardous)
- ADEP Environmental Remediation Division
 - Surface water
 - Storm water runoff
 - Groundwater
 - Sediments

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If WM-SVS will collect the required sample, 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.

4.2 COMMUNICATION

Take a cellular phone that will transmit from the location to be visited. Also take a contact pager to receive messages.

If cellular service is unavailable, use a portable radio set to the appropriate radio frequency.

If in a secure area where cell phone use is prohibited, use the radio. Be sure to have radio checked and authorized for use within secure areas or within the boundaries of the WFO FOD or WX Division. Government-owned cellular phones, with batteries removed, may be brought into the secure area but used only if approval is given by the SEO Incident Commander or FOD or designee. Rules of use for Smartphones and other mobile devices (BlackBerry, iPhones, iPads) can be found on the Computing Communications webpage for mobile devices, http://int.lanl.gov/computing/communications/mobile/index.shtml.

Radio or cellular contact must be established with a designated contact prior to leaving ENV-CP and upon arrival/departure at the site in accordance with <u>ENV-DO-QP-100</u>, <u>General Field Safety</u>.

The Incident Commander can make special communication exceptions.

All photography at LANL must adhere to <u>P217, Controlled Articles</u>.

Wastes generated from activities described in the procedure will be properly characterized, managed, and disposed in accordance with <u>P409, LANL Waste Management</u>, <u>P930-1, LANL Waste Acceptance Criteria</u>, and P403, *Environmental Risk Identification and Management*.

4.3 FACILITY MANAGEMENT WORK CONTROL REQUIREMENTS FOR FIELD ACTIVITIES

Most field activities performed by the ENV-CP spill response personnel are impacted by facility management work control requirements. Requirements vary between the respective Facility Operations Divisions (FODs) and therefore necessitate ENV-CP response personnel to acquire FOD approval for site access in advance of starting work activities. The exception to this is in response to emergency situations as support to SEO staff.

Should work be required to stop/pause, reference P101-18, *Procedure for Pause/Stop Work*, for guidance.

4.4 FACILITY MANAGEMENT-SPECIFIC ACCESS REQUIREMENTS

4.4.1 HIGH EXPLOSIVES AREAS

TA-16 and TA-11 high explosives areas have specific access requirements. Access inside the security gate requires annual site-specific training. Curricula #5243 must be assigned and all the training courses completed before arriving at TA-16. For access, (normal or after hours) contact the WFO FOD to ensure entry requirements are met and the activity is authorized for the Plan of the Day.

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For access to WFO perimeter gates during normal working hours or after hours, contact TA-15 Access Control at 667-6742 and request permission to enter. A perimeter gate key must be picked up at the TA-15 Access Control office. Note that all outdoor firing will be suspended during entry.

For perimeter gates, prior notification for after-hours entry is also required by SOC. Perform the following steps:

Step	Action
1	Call SOC Los Alamos at 667-4437.
2	Identify yourself to the on duty officer or attendant.
3	Provide the following information: Group, color and make of vehicle (s), which perimeter gate you are entering, and approximate time of arrival and finally, length of stay.

Failure to notify security personnel in advance could result in a security violation against the visiting Team Member.

Provide notification to SOC Los Alamos at 667-4437 when leaving area.

For access to WX areas required during normal or after working hours, perform the following steps:

- Ensure the required security clearance (Q clearance) is held, and
- Contact the FOD or designee for entry requirements.

4.4.2 CHEMISTRY METALLURGY RESEARCH FACILITY ACCESS

For access to the Chemistry Metallurgy Research Facility, perform the following:

- Must have the required L or Q clearance to pass the security gate.
- If access into any of the buildings is necessary, contact CMR Operations Management or the FOD for an escort.
- If responding to an emergency with SEO, ENV-CP staff will be considered part of the SEO response team, met at the access gate, and escorted to the spill site.

4.4.3 TA-3-66 SIGMA FACILITY ACCESS

For access to the Sigma facility (TA-3-66), perform the following:

- For non-emergency responses, obtain prior site-specific training and authorization or contact the FOD for personnel escort and contact the FOD Deployed Environmental Professional.
- For emergency response with SEO, ENV-CP staff will be considered part of the SEO response team, met at the access gate, and escorted to the spill site. Contact the FOD to ensure they are aware of the incident.

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4.5 REGULATORY SPILL REPORTING

If a spill is determined to be a threat to the environment or human health, regulatory and DOE notification may be necessary. Contacts and telephone numbers can be found on Attachment 1, ENV-CP Release Notification Phone List.

If a spill impacts a Solid Waste Management Unit (SWMU) or Area of Concern (AOC), contact ENV-CP and Environmental Remediation (ER) for possible additional notification requirements.

If ENV Division or designated SME personnel determine after a site inspection or verbal notification that a spill is non-reportable to DOE or applicable regulatory agencies, a LANL ENV-CP Unplanned Release Report must be completed (Attachment 2) and submitted to the ENV-CP SME for required documentation.

For ENV Division designated on-call personnel, follow guidance for spill reporting as described in ENV-DO-QP-101, *Environmental Reporting Requirements for Releases or Events*.

NOTE: On-call representatives are required to follow up in writing (email is sufficient) with the spills program lead regarding all releases during their on-call schedule. If no spills are reported in off-work hours, please confirm in writing with the spills program lead at the end of your on-call schedule.

For additional information concerning spill and unplanned discharge determination and notification requirements, contact the ENV-CP Water Quality Permitting and Compliance Team Leader.

5.0 DOCUMENT CONTROL/RECORDS MANAGEMENT

The following records generated as a result of this procedure are to be submitted in accordance with <u>ADESH-AP-006 Records Management Plan</u>.

- Field notebook documentation of the release including:
 - Time and date of the release
 - Time and date of ENV-CP notification
 - Location of the release
 - Source of the release(equipment, etc,)
 - Type of material released
 - Quantity of material released
 - If an impact to a watercourse or Potential Release Site occurred
 - Time release was stopped
 - Any immediate mitigating actions implemented to contain or control the release
- Any written report and verbal notification list generated should the release be deemed reportable.
- LANL ENV-CP Unplanned Release Report (Attachment 2) for non-reportable releases.

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6.0 DEFINITIONS

AOC: Area of Concern

ER: Environmental Remediation

<u>Field Work</u>: Performance of Laboratory related activities in areas that are removed or isolated from an established populated base of operation (that is, where emergency support and medical assistance is not readily available.)

FOD: Facility Operations Division

NPDES: National Pollutant Discharge Elimination System

OJT: On the job training

PRS: Potential Release Site

SEO: Security and Emergency Operations

SOC Los Alamos: Security contractor for Los Alamos National Laboratory

SWMU: Solid Waste Management Unit

7.0 REFERENCES

None

8.0 ATTACHMENTS

Attachment 1- ENV-CP Release Notification Phone List

Attachment 2- LANL ENV-CP Unplanned Release Report

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ATTACHMENT 1- ENV-CP RELEASE NOTIFICATION PHONE LIST

Los Alamos National Laboratory ENV-CP

Release notification phone list

August 2015

Los Alamos National Laboratory

(1)	Security and Emergency Operations	
	Emergency Management (SEO-EM)	667-6211
(2)	ENV-ES Group Office	665-8855
(3)	ENV-CP Group Office	667-0666
(4)	ENV-DO	667-2211
(5)	LANL Central Alarm Station (SOC-LA)	667-7080
	L.A. Fire Department	667-4055

New Mexico Environment Department

See Web address below

(1)	NMED Emergency Hotline (24 hours a day)	827-9329
(2)	NMED Non-Emergency Hotline (During business hours)	476-6000
	NMED Non-Emergency Hotline (Voicemail; 24 hours a day)	1(866) 428-6535
(3)	NMED Surface Water Quality Bureau	827-0187
	Erin Trujillo	827-0418
(4)	NMED Ground Water Quality Bureau	827-2900
	Greg Huey	827-6891
	Steven Huddleson	827-2936
	Gerald Knutson	827-2996
(5)	NMED Hazardous Waste Bureau	476-6000
	Ruth Horowitz	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)	Gladys Gooden-Jackson	1(214) 655-7494

U.S. Department of Energy

(1) Gene Turner	667-5794

State Emergency Response Commission (SERC) Notification

New Mexico State Police	(505) 827-9300 (During business hours)
(Immediate Notification)	(505) 827-3476 (24 hours a day)

New Mexico Department of Homeland Security and Emergency

Management (Follow-up Notification) (505) 476-9600

National Response Center

U.S. Coast Guard National Response Center	1-800-424-8802

See NRC web address below for report form

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New Mexico State Police

New Mexico State Police (505)827-9300 (During business hours)

(505) 827-3476 (24 hours a day)

Local Emergency Planning Committee (LEPC) LAPD

Philmont Taylor (505) 663-3511

On Call Environmental Contact for Releases Group Representatives for Notifications to External Agencies

Name	Group	Work	Pager	Cellular	Email address
		Phone		Phone	
Jake Meadows	ENV-CP	606-0185	664-1333	231-0460	jmeadows@lanl.gov
Mike Saladen	ENV-CP	665-6085		699-1284	saladen@lanl.gov
Mark Haagenstad	ENV-CP	665-2014		699-1733	mph@lanl.gov
Tim Zimmerly	ENV-CP	664-0105	664-1237	699-7621	tzimmer@lanl.gov
Terrill Lemke	ENV-CP	665-2397		699-0725	tlemke@lanl.gov

Web addresses:

NMED home page http://www.nmenv.state.nm.us

National Response Center home page http://www.nrc.uscg.mil/Default.aspx

Reportable Quantities web page http://homer.ornl.gov/rg/

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ATTACHMENT 2- LANL ENV-CP UNPLANNED RELEASE REPORT

Los Alamos National Laboratory Environmental Compliance Programs (ENV-CP) Unplanned Release Report

Form Completed By: Tel	ephone:		Group:	
Spill Details Spi	ll Owner	(Specify): □LANS, LLC	□Subcontractor:	
Date of Spill/Date Spill Discovered:				
Location:				
Material Spilled:		Anti-freeze/coolant	☐ Gasoline	
☐ Hydraulic Fluid		Steam Condensate Lubricants/oils	□ Other:	
☐ Potable Water ☐ Diesel		Refrigerant Oil		
Volume Spilled:		Waste Volume Ge	enerated:	
Source of Spill:		Hydraulic Line	□ Radiator	
Vehicle ID: Equipment ID:		Potable Water Line Fire Suppression System	☐ Condensate Line ☐ Other:	
Equipment ID.		Fuel Tank	L Ouer.	
			s taken to contain the spill, and steps/spill control eted and describe actions taken to prevent spill	
Did the spill enter or impact any of the		□ Floor Drain, if so please ind	dicate affected facility	
following? (Check as many as apply)				
following? (Check as many as apply) RCRA Treatment Storage Disposal Fac	cility	□ Watercourse/drainage area,	if so please indicate	
following? (Check as many as apply)	cility	□ Watercourse/drainage area,		
following? (Check as many as apply) RCRA Treatment Storage Disposal Fac RCRA Satellite Accumulation Area	cility	□ Watercourse/drainage area,	if so please indicate	
following? (Check as many as apply) RCRA Treatment Storage Disposal Fac RCRA Satellite Accumulation Area		□ Watercourse/drainage area, □ Solid Waste Management U	if so please indicate	
following? (Check as many as apply) RCRA Treatment Storage Disposal Face RCRA Satellite Accumulation Area RCRA <90 Day Storage Area Did the spill occur inside or outside a build Did the spill occur on:	ing?	□ Watercourse/drainage area, □ Solid Waste Management U □ None □ Inside Concrete	if so please indicate Unit/Area of Concern, if so please indicate Outside Asphalt	
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following? (Check as many as apply) RCRA Treatment Storage Disposal Face RCRA Satellite Accumulation Area RCRA <90 Day Storage Area Did the spill occur inside or outside a build Did the spill occur on:	ing?	□ Watercourse/drainage area, □ Solid Waste Management U □ None □ Inside Concrete	if so please indicate Unit/Area of Concern, if so please indicate Outside Asphalt	
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following? (Check as many as apply) RCRA Treatment Storage Disposal Factor RCRA Satellite Accumulation Area RCRA <90 Day Storage Area Did the spill occur inside or outside a build Did the spill occur on: (Check as many as apply) Samples Collected: None Water Certification	Soil Air Other:	□ Watercourse/drainage area, □ Solid Waste Management U □ None □ Inside Concrete Carpeted Floor Tile Wooden floor/deck If sa	if so please indicate Unit/Area of Concern, if so please indicate Outside Asphalt Graveled/Rocky Area Soil/Vegetated Area Other: amples were collected, indicate analytical suite:	
following? (Check as many as apply) RCRA Treatment Storage Disposal Factor RCRA Satellite Accumulation Area RCRA <90 Day Storage Area Did the spill occur inside or outside a build Did the spill occur on: (Check as many as apply) Samples Collected: None Water Certification I certify that I am knowledgeable about the info	Soil Air Other:	□ Watercourse/drainage area, □ Solid Waste Management U □ None □ Inside Concrete Carpeted Floor Tile Wooden floor/deck If sa	if so please indicate Unit/Area of Concern, if so please indicate Outside Asphalt Graveled/Rocky Area Soil/Vegetated Area Other: amples were collected, indicate analytical suite:	
following? (Check as many as apply) RCRA Treatment Storage Disposal Factor RCRA Satellite Accumulation Area RCRA <90 Day Storage Area Did the spill occur inside or outside a build Did the spill occur on: (Check as many as apply) Samples Collected: None Water Certification certify that am knowledgeable about the inference of Certifying Official:	Soil Air Other:	□ Watercourse/drainage area, □ Solid Waste Management U □ None □ Inside Concrete Carpeted Floor Tile Wooden floor/deck If sa	if so please indicate Unit/Area of Concern, if so please indicate Outside Asphalt Graveled/Rocky Area Soil/Vegetated Area Other: amples were collected, indicate analytical suite:	

ATTACHMENT 23: EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN PREPARATION AND MAINTENANCE

EPC-CP-QP-2110	Revision: 0	• Los Alamos
Effective Date: 01/07/2020	Next Review Date: 01/07/2023	NATIONAL LABORATORY EST.1943

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, Te	am Leader	EPC-CP	Signature on File	1-7-2020		
EPC-CP RLM:		Organization:	Signature:	Date:		
Taunia Van Valkenb	urg, Group Leader	EPC-CP	Signature on File	1-7-2020		

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REVISION HISTORY

	Effective Date	
Document Number and Revision	[Document Control	
[Include revision number, beginning	Coordinator inserts	Description of Changes
with Revision 0]	effective date]	[List specific changes made since the previous revision]
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] <u>IF</u> 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] <u>IF</u> text is embedded as part of the line,

 <u>THEN</u> replace just the yellow highlighted text with appropriate information (e.g., delete <u>Sector XX-(Insert Sector Title)</u> and replace with <u>Sector P Land Transportation & Warehousing</u>).
- [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] <u>IF</u> any of the following documents are generated, <u>THEN</u> 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] <u>IF</u> any of the following conditions occur or are detected during an inspection, monitoring or other means,

<u>THEN</u> 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	\boxtimes	
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

Document Reference Number
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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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Insert Facility Name
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Insert Name of Facility STORMWATER POLLUTION PREVENTION PLAN

PREFACE

This Stormwater Pollution Prevention Plan (SWPPP) was developed in accordance with the provisions of the Clean Water Act (33 U.S.C. §§1251 et seq., as amended), and the *United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP)* (U.S. EPA, 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: (Insert facility name e.g., TA-3-22 Power and Steam Plant)			
Street: P.O. Box 1663			
City: Los Alamos	State: NM	ZIP Code: 87545	
County: Los Alamos			
NPDES ID (i.e., permit tracking number): NMR050013			
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			
Discharge Information			
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)? ⊠Yes	No		
Pollutants causing the impairment: (Insert pollutants: list can be found in the Triad Notice of Intent (NOI)			

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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)? \Box Yes \Box 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
Group Leader: 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.
Deployed Environmental Professional (DEP): 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.
Facility Operations Division (FOD) Manager: 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.
EPC Core:	The MSGP Program Lead is responsible for managing and
Name Title, Organization	administering the MSGP Program for all industrial facilities
	operated by Triad within Los Alamos National Laboratory. The
	MSGP Program Lead advises and provides guidance to facility or
	operations personnel on NPDES MSGP regulations/requirements.
	The Program Lead also acts as the institutional point of contact for
	all interactions with the regulatory authority (EPA) and supervises
	personnel implementing stormwater monitoring requirements for
	the facility.
Operations Manager(s):	Responsible for day-to-day operations at the facility. Assists the
Name	DEP and EPC with inspections; spill reporting; implementing,
Title, Organization	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 runon and run-off.

2.1 Potential Pollutants Associated with Industrial Activity

List specific areas and activities that could potentially result is a release to the environment and the constituents that may be released. Include a list of any Solid Waste Management Units and Areas of Concern (also known as Consent Order Sites or Potential Release Sites) with a description of each and associated potential pollutants/contaminants.

2.2 Spills and Leaks

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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	Outfall(s) Affected
Location	

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 empting 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 Frosion 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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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

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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 GroundsTA-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

ВМР	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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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

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8.0 SWPPP CERTIFICATION

STORMWATER POLLUTION PREVENTION PLAN

(Insert Facility Name)
Los Alamos National Laboratory

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information 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.

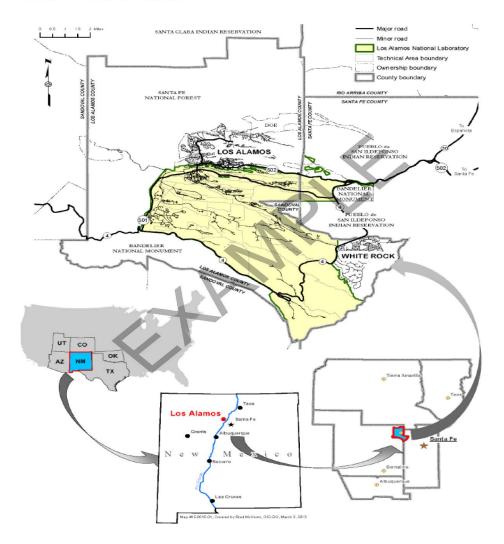
Signature	Date
(Insert Printed Name)	
(Insert Title)	

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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.



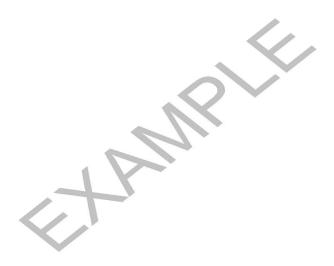
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ATTACHMENT 1: NOTICE OF INTENT, SUPPORTING DOCUMENTATION, AND UPDATES

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.



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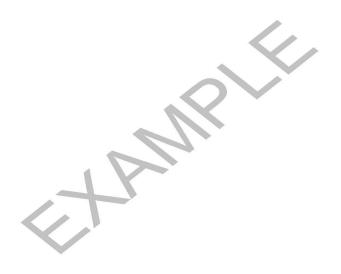
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ATTACHMENT 2: SWPPP AMENDMENTS

Insert text documenting all changes or updates made to the SWPPP. Text may be in table format as shown below.

Date	Plan Section	Reason for Amendment	Amendment



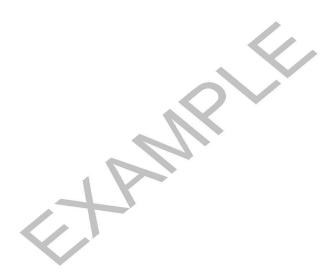
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ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES

Insert the appropriate attachment.



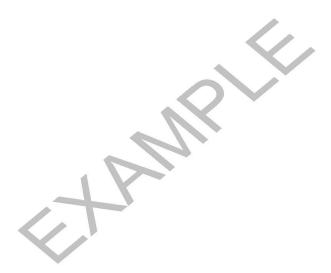
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ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM

Insert the appropriate attachment.



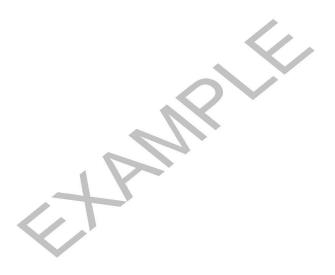
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ATTACHMENT 5: DISCHARGE MONITORING REPORTS

Insert the discharge monitoring reports.



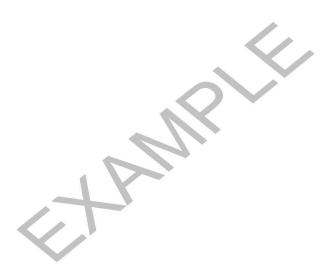
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ATTACHMENT 6: ANNUAL REPORTS

Insert the annual reports. The MSGP Program Lead provides these.



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ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

Insert completed Routine Facility Inspection forms.



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ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS

Insert completed Quarterly Visual Assessment forms. EPC-CP provides these by memorandum as they are produced.



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ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION

Contact the EPC-CP MSGP Program Lead for an excel spreadsheet of all corrective actions and a certification statement for signature.



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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

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ATTACHMENT 10: SCHEDULED MAINTENANCE LOG

SCHEDULED MAINTENANCE LOG

Control Measure or

Equipment Description (include location where appropriate) Action Taken / Comments Action Taken B (printed name & Z		Familian and Basenindian		Author Talana Da
Date (include location where appropriate) Action Taken/Comments (printed name & 2		Equipment Description		Action Taken By
	Date	(include location where appropriate)	Action Taken/Comments	(printed name & Z no.)
		1		

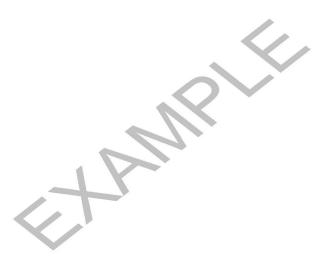
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ATTACHMENT 11: TRAINING DOCUMENTATION

Insert the appropriate documentation.



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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



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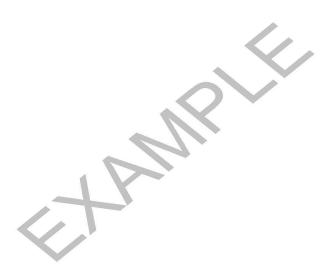
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ATTACHMENT 13: THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR

LOS ALAMOS NATIONAL LABORATORY

Insert the most current revision of the management plan for LANL.



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ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT

Contact the EPC-CP MSGP Program Lead for this information formatted for insertion.

NOTE: The Permit requires this information. However, LANL EPC-ES has completed consultation with U.S. Fish and Wildlife Service. Letters of Consultation are contained in the NOI (see Attachment 1). Refer to Attachment 13 for the species habitat management plan.



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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.



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ATTACHMENT 16: EPC-CP-QP-023, MSGP ROUTINE FACILITY INSPECTIONS

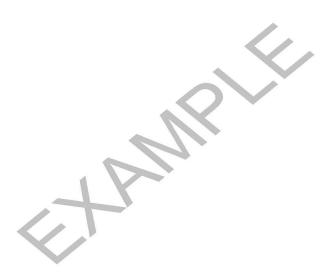


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ATTACHMENT 17: EPC-CP-QP-022, MSGP CORRECTIVE ACTIONS

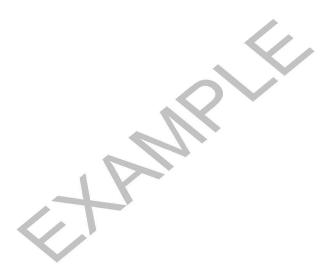


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ATTACHMENT 18: EPC-CP-QP-064, MSGP STORMWATER VISUAL ASSESSMENTS



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ATTACHMENT 19: EPC-CP-QP-<mark>047</mark>, INSPECTING STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP



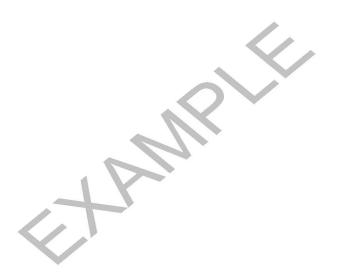
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.) (Page 45 of 50)

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ATTACHMENT 20: EPC-CP-QP-2106, PROCESSING MSGP STORMWATER SAMPLES



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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.) (Page 46 of 50)

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ATTACHMENT 21: EPC-DO-QP-101, ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES

OR EVENTS



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ATTACHMENT 22: EPC-CP-QP-007, SPILL INVESTIGATIONS



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ATTACHMENT 23: EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN

PREPARATION AND MAINTENANCE



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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.



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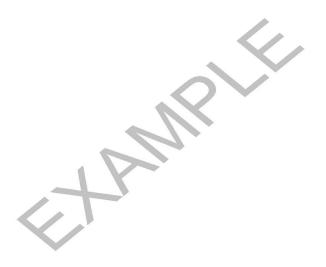
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.) (Page 50 of 50)

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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.



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Attachment 2: MSGP SWPPP Review Guidance Checklist Example

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REQUIREMENT	ON/Sak	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?		
If the SWPPP refers to procedures or other documents, are copies of the relevant portions of these		
procedures or documents present in the SWPPP?		
Site Description		
Does the SWPPP include the following information?		
 Identify a description of the nature of the industrial activities at the site 		
Provide a general location map (e.g., U.S. Geological Survey (USGS) quadrangle map) with enough		
detail to identify the location of the site and all receiving waters for industrial stormwater discharges.		
Site map showing the following:		
Boundaries of the property and size of the property in acres		
Location and extent of significant structures and impervious surfaces		
Direction(s) of stormwater flow (using arrows)		
Locations of all stormwater control measures		
• Locations of all receiving waters, including wetlands, in the immediate vicinity of the site. Indicate		
which water bodies are listed as impaired and which are identified as Tier 2, Tier 2.5, or Tier 3		
waters (for LANL, none)		
 Locations of all stormwater conveyances including ditches, pipes, and swales 		
• Locations of potential pollutant sources associated with each industrial activity (see Part 5.2.3.2)		
Incations where simifficant saille or leaks have positived (see Part 5.7.3.2)		
Location(s) of all stormwater monitoring points		
• Location of each stormwater inlet and outfall, with a unique identification code for each outfall (i.e.,		
001, 002, 003, etc.), indicating if you are treating one or more outfalls as "substantially identical"		
(See I also Siero, Siero o, and Orene)		
NOTE: Although LANL does not currently have an MS4, EPA has published a draft permit.		
 Areas of designated critical habitat for endangered or threatened species 		
 Locations of the following activities where such activities are exposed to precipitation: 		

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MSGP SWPPP Review Guidance Checklist

SWPPP Title

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date the SWPPP was prepared or amended? discharges and the corresponding outfall(s) that would be affected by such spills and leaks identified in Are all pollutants or pollutant constituents (e.g., zinc, sulfuric acid, cleaning solvents, motor oil, diesel unloading, transportation, disposal or conveyance of any raw material, intermediate product, final Are areas described in the SWPPP where industrial material or activities are exposed to stormwater or done and does it include the following information? Has an evaluation for the presence of unauthorized non-stormwater discharges (see Part 1.1.3) been occurred at exposed areas, or that drained to a stormwater conveyance, in the three years prior to the Are all significant spills and leaks of oil or toxic or hazardous substances identified that actually Are areas where **potential** spills and leaks could occur that could contribute pollutants to stormwater prepared or amended. disposed and that have been exposed to stormwater in the three years prior to the date the SWPPP is NOTE 2: The list must include all pollutants/materials that have been handled, treated, stored, or gasoline, brake fluid, etc.) associated with each activity identified? product or waste product. final products, and waste products. Material handling activities include the storage, loading and machinery; raw material; industrial production and processes; and intermediate products; by-products; NOTE 1: Industrial material or activities include material handling equipment or activities; industrial from which allowable non-stormwater discharges originate? A list of the outfall or onsite drainages points that were directly observed during the evaluation the SWPPP? A description of the evaluation criteria used Date of the evaluation Vehicle and equipment maintenance and/or cleaning area quantities of pollutants Locations and sources of run-on to the site from adjacent property that contains significant Transfer areas for substances in bulk material, or by-products used or created by the site Immediate access roads used by carriers of raw materials, manufactured products, waste Processing and storage areas Locations used for the treatment, storage, or disposal of wastes Fueling station(s) Liquid storage tanks Loading/unloading areas YES/NO NOTES

Are the selection and design considerations for control measures to meet the following non-numeric

Does the SWPPP indicate how the control measure addresses the potential pollutant sources?

instances to minimize the discharge of pollutants.

Using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some

Conserving and/or restoring riparian buffers will help protect streams from stormwater runoff and

improve water quality

impacts of erosive flows

Attenuating flow using open vegetated swales and natural depressions can reduce in-stream

taken to avoid ground water contamination

technology-based effluent limits (see Part 2.1.2) identified in the SWPPP?

Minimize Exposure: All manufacturing, processing and material storage areas (including loading and

unloading, storage, disposal, cleaning, maintenance, and fueling operations) must have controls that minimize exposure to pollutant discharges by either locating these industrial materials and activities

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Does the SWPPP indicate whether the following control measure selection and design criteria were

Preventing stormwater from coming into contact with polluting materials is generally more

effective, and less costly, than trying to remove pollutants from stormwater

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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

Assessing the type and quantity of pollutants, including their potential to impact receiving water

isolation for minimizing pollutants in stormwater discharge

quality, is critical to designing effective control measures that will achieve the limits in this permit

Using control measures in combination which may be more effective than using control measures in

Is all stormwater discharge sampling data collected at the site during the precious permit term summarized in a narrative description? This may include data tables and figures industrial purposes: is there documentation of the location of any salt storage piles used for deicing or other commercial The action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s) application was submitted for an unauthorized cooling water discharge. or documentation that a floor drain was sealed, re-routed to sanitary, or an NPDES permit YES/NO

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Use grading, berming or curbing to prevent runoff of contaminated flows and divert run-on away

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Is there language in the SWPPP indicating in instances where control measures need repair or Does the SWPPP contain language indicating immediate action must be taken to minimize pollutant Perform inspections and preventive maintenance of stormwater drainage, source controls, treatment replacement that the facility (or associated representatives thereof) must immediately take all discharges if control measures need routine maintenance? systems, and plant equipment and systems that could fail and result in contamination of stormwater You may include extra information, or you may just "cut-and-paste" the effluent limits verbatim into the SWPPP w/out Good housekeeping (all areas where potential pollutants are exposed to stormwater must be kept Maintenance (All industrial equipment, systems and control measures must be maintained in effective operating condition in order to minimize pollutant discharges) and immediately removing any accumulated dust at the base of the exterior baghouse.* Inspect and maintain baghouses at least quarterly to prevent the escape of dust from the system Diligently maintain non-structural control measures (e.g., keep spill response supplies available, Store materials in appropriate containers. Sweep or vacuum at regular intervals or wash down the area and collect and/or treat and properly Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed Use spill overflow protection equipment; Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents, Locate materials, equipment, and activities so that potential leaks and spills are contained or able Cleaning catch basins when the depth of debris reached two thirds (2/3) of the sump depth and and personnel appropriately trained) exposed areas free of such materials Minimize the potential for waste, garbage, and floatable debris to be discharged by keeping of the permit does not authorize dry weather discharges from dumpsters or roll off boxes.* lids and could leak, ensure that discharges have a control (e.g., secondary containment). Part 1.1.3 Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have dispose of the wash down water. areas that prevent runoff and run-on and also that capture any overspray; and of pollutants; Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge to be contained or diverted before discharge; and vehicles that will remain unused for extended periods of time, inspect at least monthly keeping the debris surface at least six inches below the lowest outlet pipe.*

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REQUIREMENT	YES/NO NOTES	ES
reasonable steps (see Part 4.3.1 for definition) to prevent or minimize the discharge of pollutants until	_	
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?		
• Spill Prevention and Response - The potential for leaks, spills, and other release must be minimized	•	
by the development of plans for effective response to such spills if or when they occur in order to		
minimize pollutant discharges.		
- Plainly label containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could		
be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if		
- Implement procedures for material storage and handling including use of secondary containment		
and barriers between material storage and traffic areas.		
 Develop training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases as soon as possible. 		
- Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be		
made		
- Notify appropriate facility personnel when a leak, spill, or other release occurs. Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a		
reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR part 302,		
occurs during a 24-hour period, you must notify the National Response Center (NRC) at (800) 424-		
8802 in accordance with the above referenced requirements as soon as you have knowledge of		
the discharge.		
readily accessible and available?		
Erosion and Sediment Controls		
- Does the SWPPP identify how exposed soils will be stabilized to minimize pollutant discharges?		
- Does the SWPPP identify flow velocity dissipation devices placed at discharge locations to		
minimize channel and streambank erosion and scour in the immediate vicinity of discharge		
- Does the SWPPP identify structural and non-structural control measure to minimize the discharge		
	_	

Are the following employees identified as requiring training?

the MSGP Corrective Action Reporting database) identified?

notification procedures?

Are procedures included in the SWPPP for preventing and responding to spills and leaks, including

Is there a schedule or frequency for maintaining all control measures?

Are clean-up equipment, procedures and spill logs (i.e., reportable and non-reportable spill reports and

Are control measures for material handling and storage identified?

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repair) for all control measures included in the SWPPP to avoid situations that may result in leaks, Are preventative maintenance procedures (including regular inspections, testing, maintenance and Does the SWPPP contain a schedule or convention used for determining when pickup or disposal of Are the benchmark values (i.e., the Lowest New Mexico Water Quality Standard) listed in MSGF Are backup practices in place should a runoff event occur while a control measure is off line? waste materials occurs? Section 9.6.2.1 identified in the SWPPP? Are effluent limitations identified for the Sector D facility (Asphalt Paving) (see Part 8.D.4)? spills, and other releases? Schedules and Procedures - Control Measures Are effluent limitations identified for the Sector A facility (Timber Products) (see Part 8.A.7)? Control Measures to Meet Water Quality Based Effluent Limits (see Part 2.2 and Part 9.6.2) Control Measures to Meet Numeric Effluent Limitations Guidelines-Based Limits (see Part 2.1.3 and Part 8 Salt Storage Piles or Piles Containing Salt - Does the SWPPP identify how salt piles are enclosed or generation and off-site tracking of raw, final, or waste materials must be minimized in order to Dust Generation and Vehicle Tracking of Industrial Materials - Does the SWPPP indicate dust Non-Stormwater Discharges - Does the SWPPP indicate that personnel will evaluate the site for Management of Runoff - Does the SWPPP identify how stormwater runoff is diverted, infiltrated minimize pollutant discharges?) non-stormwater discharges not explicitly authorized in Part 1.1.3 or covered by another NPDES reused, contained, or otherwise reduced to minimize pollutants in the discharge? permit and eliminate the discharge?) If polymers and/or other chemical treatments are used for dust control or stabilization, does the materials from the salt pile? Are controls in place to minimize exposure to stormwater resulting from adding to or removing SWPPP must identify the polymers and/or chemicals used and the purpose? YES/NO NOTES

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Is the facility claiming an exception as an inactive and unstaffed site? If yes, the facility must include SWPPP identify the person (s) or positions of person(s) responsible for the inspection? Is the procedure identified for conducting routine facility inspections? Are locations where samples are collected, including any determination that two or more outfalls are or activities exposed to precipitation at the site and the NOI must be modified and re-certified That is, the SWPPP must contain a signed certification indicating that there are no industrial materials 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 Are specific items to be covered by the inspection, including schedules for specific outfalls identified in irregular stormwater runoff discharges (see Part 3.2.3)? Is the procedure identified for conducting visual assessments? Are parameters for sampling and the frequency of sampling for each parameter listed? limitations guidelines and impaired waters monitoring? Does the SWPPP contain documentation of procedures used to conduct benchmark, effluent Does the SWPPP contain an alternative schedule for conducting visual assessments in climates with For each type of inspection performed (i.e., routine inspection and visual assessments) does the Schedules and Procedures - Inspections and Assessments Are records of completed training kept in the SWPPP? Are the following elements of the training plan documented in the SWPPP? • The location of all controls on the site required by this permit and how they are to be maintained Spill response procedures, good housekeeping, maintenance requirements, and material Are the following identified as elements of required training? Personnel who are responsible for taking and documenting corrective actions. Frequency/schedule of training Content of the training An overview of what is in the SWPPP When and how to conduct inspections, record applicable findings, and take corrective actions The proper procedures to follow with respect to the permit's pollution prevention requirements Personnel who are responsible for conducting and documenting monitoring and inspections contaminants in stormwater discharges Personnel responsible for the storage and handling of chemicals and materials that could become Personnel who are responsible for the design, installation, maintenance and/or repair of controls (including pollution prevention measures) NOTES

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Does the SWPPP contain the following up-to-date and complete inspection, monitoring, and Is there language indicating quarterly visual assessments of substantially identical outfalls will be Does the SWPPP contain the following relative to SIOs? Are numeric control values (benchmark, effluent limitations guidelines, water quality standards) monitoring periods for climates with irregular stormwater runoff (see Part 6.1.6)? Does the SWPPP contain schedules for monitoring at the facility, including a schedule for alternate Corrective Action Documentation - If an event triggering corrective action is associated with an SIO, did Is there language indicating quarterly visual assessment of the discharge at one SIO will also apply to Do Substantially Identical Outfalls identified on the SWPPP map match those identified in MDMRe? Does the SWPPP list procedures for gathering storm event data (see Part 6.1)? Copy of the acknowledgement you receive from the EPA assigning your NPDES ID. Copy of NOI submitted to EPA along with any correspondence exchanged between the facility and the review of the need for action encompass all related substantially identical outfalls? the other SIOs? performed on a rotating basis throughout the permit term? applicable to discharges from each outfall identified? certification records? Justification as to why the outfalls are expected to discharge substantially identical effluents Location of each of the substantially identical outfalls hedules and Procedures - Substantially Identical Outfalls (SIOs Documentation of maintenance and repairs of control measures, including the date(s) of regular Copy of the MSGP Permit (an electronic copy easily available to SWPPP personnel is also An estimate of the runoff coefficient of the drainage areas (low = under 40%, medium = 40% to 65% Description of the exposed material located in the drainage area of each outfall that are likely to be Description of the control measures implemented in the drainage area of each outfall Description of the general industrial activities conducted in the drainage area of each outfall All inspection reports, including the Routine Facility Inspection Reports (see Part 3.1.2) and maintenance/repair schedules (See Part 2.1.2.3). that the control measure(s) returned to full function, and the justification for any extended maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, date(s) EPA specific to coverage under this permit high = above 65% significant contributors of pollutants to stormwater discharges Quarterly Visual Assessment Reports (see Part 3.2.2) YES/NO NOTES

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none were needed under the following circumstances?

Has the SWPPP been reviewed and does documentation exist as to the modifications made or why

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SWPPP been updated within 14 calendar days of completing the corrective action (see Part 4.4)? Where a corrective action triggers a change in any of the control measures or procedures, has the Is the Annual Report signed by a duly authorized representative (per Part B.11)? Are SWPPP modifications signed and dated by a duly authorized representative? Is the SWPPP signed and dated by a duly authorized representative (per Part B.11)? Corrective action documentation (see Part 4.4) Support for claim that facility has changed its status from active to inactive and is unstaffed with All Discharge Monitoring Reports and Annual Reports criteria for historic property preservation (Criterion A, B, C or D) (see Part 1.1.4.6). Documentation supporting the determination that stormwater discharges, allowable non-Documentation supporting that stormwater discharges, allowable non-stormwater discharges, and sources. (see Part 6.2.4.1) Documentation of any benchmark exceedances and the type of response to the exceedance reason for the deviations (e.g., adverse weather or it was impracticable to collect samples within the Description of any deviations from the schedule for visual assessments and/or monitoring, and the benchmark monitoring, and/or impaired waters monitoring. respect to the requirements to conduct routine facility inspections, quarterly visual assessments stormwater discharges, and stormwater discharge-related activities meet one of the eligibility that is designated as "critical habitat" under the Endangered Species Act (see Part 1.1.4.5). stormwater discharge-related activities are not likely to adversely affect any species that are pollutants were not detected in your discharge or were solely attributable to natural background present above natural background levels if you discharge directly to impaired waters and that such Documentation to support any determination that pollutants of concern are not expected to be employed including the following: first 30 minutes of a measurable storm event) (see Parts 3.2.3 and 6.1.5) federally listed as endangered or threatened ("listed") and are not likely to adversely affect habitat A finding that the exceedance was due to natural background pollutant levels; A finding that no further pollutant reductions were technologically available and economically A determination from EPA that benchmark monitoring can be discontinued because the practicable and achievable in light of best industry practice consistent with Part 6.2.1.2 exceedance was due to run-on; OR The corrective action taken; YES/NO NOTES

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REQUIREMENT An unauthorized release or discharge (e.g., spill leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the U.S.) occurs at your facility. A discharge violates a numeric effluent limit listed in Table 2-1 and in the sector specific requirements. The control measures are not stringent enough for the discharge to meet applicable water quality.	NOTES
 An unauthorized release or discharge (e.g., spill leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the U.S.) occurs at your facility. A discharge violates a numeric effluent limit listed in Table 2-1 and in the sector specific requirements. The control measures are not stringent enough for the discharge to meet applicable water quality 	
A discharge violates a numeric effluent limit listed in Table 2-1 and in the sector specific requirements. The control measures are not stringent enough for the discharge to meet applicable water quality.	
 The control measures are not stringent enough for the discharge to meet applicable water quality 	
standards or the non-numeric effluent limits in this permit.	
 A required control measure was never installed, was installed incorrectly, or not in accordance with Parts 2 and/or 8, or is not being properly operated or maintained. 	
 Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam). 	
 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. 	
 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. 	
Public Accessibility of SWPPP	
Is your SWPPP uploaded to the UKL provided in the NO!? Are subsequent SWPPP modifications (updates), records and all other reporting elements required for the previous year updated no later than 45 days after conducting the final routine facility inspection.	
for the year? If you did not upload your SWPPPs to a URL, was the following information provided in the NOI and documented in the SWPPP?	
• Onsite industrial activities exposed to stormwater, including potential spill and leak areas (see Parts 5.,2.3.1, 5.2.3.3 and 5.2.3.5);	
 Pollutants or pollutant constituents associated with each industrial activity exposed to stormwater that could be discharged in stormwater and/or any authorized non-stormwater discharges listed in Part 1.1.3 (see Part 5.2.3.2) 	
• Stormwater control measures employed to comply with the non-numeric technology-based effluent limits required in Part 2.1.2 and Part 8, and any other measures taken to comply with the requirements in Part 2.2, Water Quality Based Effluent Limitations. If polymers and/or other chemical treatments are used as controls, these must be identified and the purpose explained.	
• The schedule for good housekeeping, maintenance, and schedule for all inspections required in Part 3.	

MSGP Stormwater Pollution
Prevention Plan Preparation and
Maintenance

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In the case of leaks and spills, were response actions, date/time of clean up, notification, etc.	Was immediate action taken to minimize or prevent the discharge of pollutants?	Is the date the corrective action was identified captured?	Is the condition triggering the need for the corrective action identified?	Are corrective actions documented within 24 nours of becoming aware of such conditions	Are correcting actions decumented within 11 bours of becoming aware of such condition?	Corrective Artions	Are modifications to the SWFFF information required in the foot buriets above submitted on a change NOI" form no later than 45 days after conducting the final routine facility inspection for the year?	ALCONOMICS OF THE PROPERTY OF	DECHIDENMENT
								TES/NO	VEC /NO
								NOIES	NOTES
	In the case of leaks and spills, were response actions, date/time of clean up, notification, etc.	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.	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.	Is the conductor triggering the need for the corrective action identified captured? 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.	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.	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.	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.	Are corrective actions documented within 24 hours of becoming aware of such condition? Is the condition triggering the need for the corrective action was identified captured? Was immediate action taken to minimize or prevent the discharge of pollutants? Was of leaks and spills, were response actions, date/time of clean up, notification, etc.	ons to the SWPPP information required in the four bullets above submitted on a "Change later than 45 days after conducting the final routine facility inspection for the year? ions actions documented within 24 hours of becoming aware of such condition? n triggering the need for the corrective action identified? corrective action was identified captured? te action taken to minimize or prevent the discharge of pollutants? leaks and spills, were response actions, date/time of clean up, notification, etc.

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