



# **Storm Water Pollution Prevention Plan for Technical Area 54 Areas G and L**

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## 1.0 Facility Description and Contact Information

### 1.1 Facility Description

**Facility Information:**

Name of Facility: Los Alamos National Laboratory (LANL)

Street: 1200 Trinity Drive, Suite 150

City: Los Alamos State: NM ZIP Code: 87544

County or Similar Subdivision: TA-54, Areas G and L

National Pollutant Discharge Elimination System (NPDES) ID: NMR050012 (i.e., Permit No.)

Primary Industrial Activity SIC code: HZ

Sector (2015 MSGP, Appendix D and Part 8): Sector K

Subsector (2015 MSGP, Appendix D and Part 8): Subsector K1

Co-located Industrial Activity SIC code: Not Applicable (N/A)

Sector (2015 MSGP, Appendix D): N/A

Subsector (2015 MSGP, Appendix D): N/A

**Latitude and Longitude:**

Latitude: 35. 834764 ° N (decimal degrees)

Longitude: -106. 25167° W (decimal degrees)

Method for determining latitude/longitude (check one):  USGS topographic map (scale: \_\_\_\_\_ )  
 GPS  
 Other (specify): Google Earth

Horizontal Reference Datum (check one):  NAD 27  NAD 83  WGS 84

Is the facility located in Indian country?  YES  NO

If *yes* to the above question then provide name of Reservation

If *no* to the above question then indicate N/A N/A

Are you considered a **Federal Operator** of the facility?  YES  NO

**Federal Operator** – an entity that meets the definition of “operator” in this permit and is either any department, agency or instrumentality of the executive, legislative and judicial branches of the Federal government of the United States, or another entity, such as a private contractor, operating for any such department, agency, or instrumentality.

Estimated area of industrial activity at site exposed to storm water: 74 acres

**1.1 Facility Description (continued)**

<b>Discharge Information:</b>	
Does this facility discharge storm water into a municipal separate storm sewer system (MS4)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If yes, provide name of MS4 operator:	N/A
Name(s) of surface water(s) that receive storm water from your facility:	
<p>Direction of storm water flow on the site is primarily to the south into Pajarito Canyon with a minor amount to the north into Cañada del Buey. TA-54 Area G discharges to two separate impaired waters. Outfall 072 discharges to Assessment NM-128.A_00, Cañada del Buey (PCBs and adjusted gross alpha). Outfall 051, Outfall 053, and Outfall 069 all discharge to Assessment NM-128.A_08 Pajarito Canyon (Lower LANL and to Two Mile Canyon) (PCBs, total recoverable aluminum, dissolved copper, adjusted gross alpha and total recoverable cyanide). Area L discharges to assessment NM-128.A_00 and is therefore monitored for the same constituents as Outfall 072.</p>	
Does this facility discharge industrial storm water directly into any segment of "impaired water"? (Ref. 2015 MSGP, Appendix A definitions)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<p>If yes, identify name of the impaired water(s) and segment(s), if applicable: <u>Pajarito Canyon and Cañada del Buey</u></p> <p>Identify pollutant(s) causing impairment(s): <u>Pajarito – PCBs, total recoverable aluminum, dissolved copper, adjusted gross alpha, and total recoverable cyanide. Cañada del Buey – PCBs and adjusted gross alpha.</u></p> <p>Which pollutant(s) identified may be present in industrial storm water discharges from this facility?</p>	
None	
Has a total maximum daily load (TMDL) been completed for any of the identified pollutants?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If yes, list TMDL pollutants:	N/A
Does this facility discharge industrial storm water into receiving water designated as a Tier 2, Tier 2.5 or Tier 3 water? (Ref. 2015 MSGP, Appendix A definitions)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Are any of your storm water discharges subject to effluent limitation guidelines (ELGs)? (Ref. 2015 MSGP Table 1-1)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If yes, which guidelines apply?	N/A

## 1.2 Contact Information/Responsible Parties

### Facility (Site) Operator(s):

Name: Newport News Nuclear BWXT-Los Alamos, LLC  
Address: 1200 Trinity Drive, Suite 150  
Los Alamos, NM 87544  
Telephone Number: 505-661-5918

### Facility Owner(s):

Name: Contact Handled Transuranic Operations  
TA-54 Operations Center (505) 257-8400  
Address: 1200 Trinity Drive, Suite 150  
Los Alamos, NM 87544

Primary POC: Gail Helm, Ops Center Manager  
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Secondary POC: John Guy, Shift Operations Manager  
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### Site SWPPP:

POC: Emily Day  
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### Facility SWPPP:

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### 1.3 Storm Water Pollution Prevention Plan / Team Members

The Newport News Nuclear BWXT-Los Alamos, LLC- (N3B-) controlled facilities located at Los Alamos National Laboratory (LANL) operate under the National Pollutant Discharge Elimination System (NPDES) 2015 Multi-Sector General Permit (MSGP) for Storm water Discharges Associated with Industrial Activities, which governs storm water discharge from industrial activities.

Under this permit, the U.S. Environmental Protection Agency (EPA) requires the implementation of a Storm Water Pollution Prevention Plan (SWPPP), which must be developed in accordance with the provisions of the Clean Water Act (33 U.S.C. 1251 et seq.), and the regulations established by the EPA for the NPDES MSGP for Storm water Discharges Associated with Industrial Activity [Federal Register 73, 56572], herein referred to as the 2015 MSGP.

Before April 30, 2018, all activities associated with the 2015 MSGP in relation to Technical Area 54 (TA-54) Areas G and L were performed by Los Alamos National Security, LLC (LANS). The U.S. Department of Energy (DOE) awarded the Los Alamos Legacy Cleanup Contract (LLCC) to N3B effective April 30, 2018. As part of the LLCC, N3B assumed control of TA-54 Areas G and L.

The 2015 MSGP requires control measures, schedules/procedures, and documentation to support eligibility considerations under other federal laws be included as part of this SWPPP. The 2015 MSGP also requires that a notice of intent (NOI) be filed a minimum of 30 days before commencing discharge in accordance with the terms of the 2015 MSGP. N3B submitted an NOI to operate under the 2015 MSGP for TA-54 Areas G and L which became effective on May 1, 2018.

The purpose of this SWPPP is to ensure that all potential sources of storm water pollution at TA-54 Areas G and L are documented. The SWPPP also describes specific storm water control measures, also known as best management practices (BMPs), that are used to reduce or eliminate pollutants in storm water discharges and identifies implementable processes and procedures in place to comply with the terms and conditions of the 2015 MSGP. Through potential pollutant reduction, environmental problems that result in lost resources and costly restoration activities may be averted. BMPs include maintenance activities, formalized work practice reviews, training, activity scheduling, stabilization, structural controls, and additional documentation to support eligibility considerations and to include endangered species and historic properties.

This SWPPP is intended to be a living document and updates may be necessary as the result of a corrective action, or when industrial activities or storm water controls change. Accordingly, the 2015 MSGP requires prompt revision of the SWPPP to reflect such changes.

This SWPPP applies to storm water discharges associated with industrial activities at LANL from hazardous waste treatment, storage, and disposal facility operations conducted at TA-54 Areas G and L by N3B personnel. This facility is under the control of N3B's Contact-Handled Transuranic (CH-TRU) Program. Operations conducted at this facility fall within the MSGP requirements for Sector K, Hazardous Waste Treatment, Storage or Disposal Facilities.

#### **Team Members**

The facility has established a storm water Pollution Prevention Team (PPT), the members of which are responsible for: (1) the development, implementation, maintenance, and revision of this SWPPP and (2) maintaining control measures and taking corrective actions, as required. In addition, members receive SWPPP training as part of membership requirements (see Table 1.3-1 and section 4.5, *Employee Training* for a complete summary).



Storm water PPT members are N3B representatives from cross-functional integrated project teams, including the Environmental Remediation Surface Water Program, the CH-TRU Program, and the Regulatory Compliance organization. Participants of the storm water PPT are selected based on their knowledge of TA-54 operations and the potential impact of these activities on storm water runoff.

Storm water PPT duties include collecting samples, visually examining storm water runoff for compliance under the NPDES permit/regulations, conducting routine facility inspections, and implementing and modifying this SWPPP.

**Table 1.3-1  
Storm water PPT Roles and Responsibilities**

Roles	Responsibilities
<b>Regulatory Compliance Director</b>	<ul style="list-style-type: none"> <li>• Implements the SWPPP and associated BMPs</li> <li>• Oversees the assigned duties of PPT members</li> <li>• Ensures inspection problems are remedied/corrected and properly documented</li> <li>• Performs or designates a representative to perform routine facility inspections in accordance with section 4.6, <i>Facility Routine Inspections and Quarterly Visual Inspections</i> of this SWPPP</li> <li>• Ensures training as required by the 2015 MSGP is available and the appropriate N3B personnel receive the training specified in section 4.5, <i>Employee Training</i> of this SWPPP</li> </ul>
<b>Environmental Remediation Surface Water Program Lead</b>	<ul style="list-style-type: none"> <li>• Provides SWPPP technical guidance</li> <li>• Provides BMP guidance (selection and installation)</li> <li>• Aids in performing and documenting inspections and assessments</li> <li>• Performs site compliance evaluations</li> </ul>
<b>CH-TRU Shift Operations Manager</b>	<ul style="list-style-type: none"> <li>• Responsible for the implementation of good housekeeping practices</li> <li>• Oversees BMP maintenance</li> <li>• Ensures corrective actions are scheduled/implemented in a timely manner</li> <li>• Ensures operators receive SWPPP/2015 MSGP-required training</li> <li>• Notifies Regulatory Compliance lead when there is a development or change in facility operations that may require a revision to the SWPPP or change to control measures</li> </ul>
<b>CH-TRU Operations Staff</b>	<ul style="list-style-type: none"> <li>• Assists with cleanup as necessary (i.e., spill of released pollutants)</li> <li>• Directs the appropriate waste management of all resultant clean up materials</li> </ul>
<b>Regulatory Compliance Director</b>	<ul style="list-style-type: none"> <li>• Develops SWPPP training</li> <li>• Provides SWPPP technical guidance</li> <li>• Conducts recordkeeping and regulatory reporting</li> <li>• Provides oversight of the SWPPP (e.g., revisions, etc.)</li> <li>• Ensures inspection documents and other records related to the SWPPP and storm water pollution control measures are managed in accordance with the existing NPDES permit and N3B records management requirements</li> </ul>
<b>Maintenance Connection Storm Water Database Administrator</b>	<ul style="list-style-type: none"> <li>• Maintains and updates the CADB based on input from MSGP Storm Water Team personnel</li> <li>• Responsible for the generation of Routine Facility Inspection work statements</li> <li>• Generates and updates MSGP corrective action status reports</li> </ul>

## 1.4 Site Description

All facilities at TA-54 Areas G and L are operated by the N3B CH-TRU organization. Activities conducted within these areas are subject to regulation under the 2015 MSGP, Sector K. Descriptions of activities conducted at each of these areas are provided as follows.

### Area G

Area G is LANL's primary location for the storage and disposal of radioactive solid waste. Area G occupies approximately 70 acres of the southeast portion of TA-54 and is located approximately 2 mi southeast of the intersection of Pajarito Road and Rex Drive. A series of pits and shafts in Area G are used for low-level waste (LLW) disposal and retrievable transuranic (TRU) waste storage. Several tension-support domes, chemical sheds, and buildings are used to store mixed low-level waste (MLLW), LLW, TRU, and mixed TRU waste. No liquids are accepted for disposal in Area G.

Pits and shafts used for waste disposal are located no closer than 50 ft from the mesa's edge. They are also kept as far as is practicable from the well-defined drainage courses that dissect the mesa. Disposal pits are typically designed to be a maximum of 65 ft deep, with the average pit measuring up to 600 ft long and 100 ft wide. Pits are typically designed with a ramp at one end with a slope of up to 6 ft horizontal to 1 ft vertical (6:1) and walls that are stepped or sloped at approximately 1:2. Multiple pits may be active at any time. Loose materials disposed of in the pits are covered with crushed tuff to prevent dispersal by the wind. Inactive pits are covered with crushed tuff.

Shafts limit external radiation from solid radioactive waste and are used for wastes that need additional separation from personnel to limit exposure, including retrievable, high-activity TRU waste. Shafts are spaced at a minimum of one shaft diameter (measured center to center), and vary in depth from 25 to 65 ft. Shafts can be either lined or unlined, depending on the type of waste they contain. The shafts are covered at all times, except during actual waste emplacement. When a shaft is closed, the top 6 to 10 ft is filled with crushed tuff and capped with either concrete or crushed tuff and domed to divert surface runoff away from the shaft.

Several structures at Area G are used to temporarily store chemical waste, hazardous waste, LLW, MLLW, TRU waste, and mixed TRU waste generated from LANL facilities. This waste is stored in containers either located in buildings, sheds, tension support domes set on asphalt pads, or outside on asphalt pads. Waste stored outside on asphalt pads are held in one of three configurations:

- Metal boxes (transportainers) designed for waste transportation. These containers meet stringent U.S Department of Transportation requirements and are elevated by design preventing contact with storm water run-on or runoff.
- Large (3 ft, 4 ft, or 6 ft in diameter) experimental metal vessels. The interiors of these vessels contain radioactive contamination; however, the vessels are designed to be air-tight to contain the experiments that were housed inside them. These containers are stored on pallets to prevent contact with storm water run-on or runoff.
- Covered waste containers (drums and boxes) stored on pallets to prevent contact with storm water run-on or runoff.

The potential for storm water contamination from on-site storage facilities at TA-54 Area G is low except for waste loading/off-loading activities (related to transportation to or from the buildings, domes, metal boxes, or asphalt pads).

There are 22 designated outfalls (18 of which are substantially identical – see table in section 4.7.2) in four separate drainage areas at Area G. These areas vary both in size and volume of storm water runoff. Runoff from the drainage areas flows into either Pajarito Canyon or Cañada del Buey.

### **Area L**

Area L, which is approximately 3 acres in size, is a facility for intermediate and long-term storage of solid and liquid chemical waste, hazardous waste, and MLLW. Sector K industrial activities include sampling, packaging, transporting, and storing of waste. Depending on the availability of appropriate off-site recycling or disposal facilities, waste collected at Area L is either stored on-site or transported off-site for treatment, storage, or disposal. Stored waste includes various types of radioactive or hazardous waste, mixed liquid waste, wastes containing polychlorinated biphenyls (PCBs), waste gas cylinders, and other waste. The waste is primarily stored in drums and other containers on pallets housed within structures or on pallets under some other form of cover inside Area L. Asphalt channels and a storm drain convey storm water runoff at Area L to a single outfall where storm water discharge is sampled (see table in section 4.7.2 for outfall information). Area L is paved with asphalt and contoured to efficiently divert runoff to this conveyance. The runoff from this outfall flows north into Cañada del Buey.

## **1.5 General Location Map**

A general location map that identifies LANL and the proximity of receiving waters is provided in Attachment A, General Location Map.

## **1.6 Site Map**

### **Area G**

Of the approximate 70 acres where MSGP Sector K industrial activities occur at Area G, approximately 40% consists of impervious surfaces in the form of structures, rooftops, covered metal bins, transportainers, and asphalt/concrete surfaces. Direction of storm water flow on the site is primarily to the south into Pajarito Canyon with a minor amount of runoff from the site discharging to the north into Cañada del Buey, which flows to Mortandad Canyon.

### **Area L**

Area L, consists of 100% impervious surfaces in the form of rooftops, covered metal bins, and asphalt/concrete surfaces. Asphalt channels and corrugated metal pipe convey storm water runoff at Area L to a single outfall where storm water discharge is sampled. Area L is paved and contoured to efficiently divert runoff to this conveyance. The runoff from this outfall flows north into Cañada del Buey, which flows to Mortandad Canyon.

## 2.0 Potential Pollutant Sources

Sector K Resource Conservation and Recovery Act (RCRA) treatment, storage, and disposal facility (TSDF) industrial activities associated with waste operations at TA-54 Areas G and L are primarily centered on the collection, storage, characterization, consolidation, waste handling, and shipment for numerous types of regulated wastes. Authorized non-storm water discharges associated with fire hydrant maintenance; fire suppression system maintenance; uncontaminated heating, ventilation, and air conditioning (HVAC) condensate; and safety shower/eye wash maintenance occur at all industrial areas. In addition, as necessary for dust suppression, water is applied to unpaved roads in Area G.

The following sections define activities and associated potential pollutants for each of the TA-54 areas, including the solid waste management units (SWMUs) in the vicinity.

### 2.1 Potential Pollutants Associated with Industrial Activity

Tables 2.1.1 and 2.1.2 identify specific industrial activities and associated pollutants at TA-54 Areas G and L that are potentially exposed to storm water. The list of potential pollutants associated with the industrial activities includes all significant materials that have been handled, managed, or stored at the site.

**Table 2.1-1  
Area G Potential Pollutants Associated with Industrial Activity**

Area G Industrial Activity	Associated Pollutants*
Loading and unloading radioactive, hazardous, chemical, and mixed waste containers	Radionuclides, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze
Outdoor waste storage in containers	Radionuclides, metals, VOCs, SVOCs, PCBs
Dirt staging/spoils pile and daily cover application	Sediment
Radioactive waste hauling and disposal (containerized and bulk) at Pit 38 and shafts	Radionuclides
Heavy equipment operation-material handling for radioactive waste disposal	Fuels, oils, antifreeze, grease, battery acid
Scrap metal staging – south-central portion of site	Metals

\* VOCs = volatile organic compounds; SVOCs = semivolatile organic compounds.

#### **Area G Solid Waste Management Units and Areas of Concern**

- There are several SWMUs/areas of concern (AOCs) located within and adjacent to the limits of this industrial area, including 54-017 and 54-018 – inactive disposal pits:
- 54-014(d) – Retrievable TRU waste storage trenches
- 54-020 – Disposal shafts
- 54-012(a) – Former compactor facility, TA-54-02
- 54-013(b)-99 – Numerous inactive subsurface units that no longer receive waste
- 54-015(a) – Former drum storage for TRU/mixed TRU waste at TA-54-08. Currently an interim status RCRA storage unit.

- 54-015(b) – Former TRU and LLW storage near TA-54-11
- 54-015(j) – Mixed waste storage dome TA-54-49. The dome, which is located on Pit 32, is used for staging, swiping, stacking, and storage of TRU and mixed TRU waste.
- 54-015(c through f) – TRU and mixed TRU waste storage Pads 1 through 4 and associated structures. Dome 48 is located on Pad 3, and Pads 2 and 4 were repaved in 2003 to form one continuous asphalt surface (Pad 10).
- 54-016(b) – Sump at TA-54-33 designed to collect waste from the removal of the corrosion inhibitor that is sprayed on TRU waste drums

The majority of the SWMUs listed are inactive underground waste units (disposal or storage) or are RCRA treatment, storage, and disposal units where current waste management activities are occurring. SWMUs and AOCs that have the potential to discharge to waters of the United States are covered under LANL’s NPDES Individual Permit (NM0030759) and are subject to the permit requirements contained therein, including monitoring and corrective actions.

**Table 2.1-2  
Area L Potential Pollutants Associated with Industrial Activity**

Area L Industrial Activity	Associated Pollutants*
Loading and unloading radioactive, chemical, hazardous, and mixed waste containers	Radionuclides, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze, corrosives (HF, HCl, H2SO4, NaOH etc.), commercial chemical products (bleach, Lysol, fire retardant and other cleaning products), cyanides, and air and water reactive material
Outdoor waste storage in containers	Radionuclides, metals, VOCs, SVOCs, PCBs, fuels, antifreeze, corrosives (HF, HCl, H2SO4, NaOH etc.), commercial chemical products (bleach, Lysol, fire retardant and other cleaning products), cyanides, and air and water reactive material
Heavy equipment maintenance	Fuels, oils, antifreeze, grease, and battery acid
Heavy equipment operation and material handling	Fuels, oils, antifreeze, grease, and battery acid

\* VOCs = volatile organic compounds; SVOCs = semivolatitle organic compounds; HF = hydrofluoric acid; HCl = hydrochloric acid; H2SO4 = sulfuric acid; NaOH = sodium hydroxide.

**Area L SWMUs and AOCs**

There are several SWMUs/AOCs located within and adjacent to the limits of this industrial area. SWMUs/AOCs within the site limits include:

- 54-001(a) – Former bermed hazardous waste storage area for pails and drums. The site is the current location of building TA-54-215.
- 54-001(b) – Container accumulation, packaging, and storage (TA-54-31)
- 54-001(d) – PCB storage area in building TA-54-39
- 54-001(e) – Sheltered concrete storage pad partitioned into six cells, TA-54-32

- 54-006 – Inactive disposal units under Area L asphalt including Pit A, surface impoundments B and D, and disposal shafts
- 54-002 – Compressed gas storage area, Dome 216
- 54-009 – Barium treatment tanks. All tanks have been removed and units have been closed in accordance with RCRA.
- 54-014(a) – Two lead stringer shafts at the northwest corner of Area L. The lead stringers were removed in the fall of 2004 and have been closed in accordance with the RCRA permit.
- 54-012(b) – Former location of drum compactor

The majority of the SWMUs listed above are inactive underground waste units (disposal or storage) or are RCRA treatment, storage, and disposal units where current waste management activities are occurring.

## 2.2 Spills and Leaks

A number of areas throughout TA-54 Areas G and L have been identified as locations where the occurrence of a spill or leak could contribute pollutants to storm water discharges. These locations and the associated discharge points are described in Table 2.2-1.

**Table 2.2-1  
Areas G and L Locations Where Potential Spills/Leaks Could Occur**

Area G Location	Discharge Points*
Entrance to TSDF structures and asphalt pads – loading/unloading/storage.	Monitored outfalls discharge point 051 and SIO 052. These features are shown on the site maps in Attachment B.
Vehicle and equipment (e.g., forklift) parking on south end of Pad 10 pad – heavy equipment and vehicle leaks	Monitored outfall 069 and SIOs 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 067, and 068. These features are shown on the site maps in Attachment B.
Travel corridor between TSDF structures and pads – heavy equipment leaks	Monitored outfalls 051, 053, 069, and 072 and corresponding SIOs 052, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068 070, and 071. These features are shown on the site maps in Attachment B.
Area L Location	Discharge Points
Entrance to TSDF structures and asphalt storage area – loading/unloading/storage.	Monitored outfall discharge point 050. This outfall is shown on the Area L site map provided in Attachment B.
Travel corridor between TSDF structures and pads – heavy equipment leaks	Monitored outfall discharge point 050. This outfall is shown on the Area L site map provided in Attachment B.

\* SIO = substantially identical outfall.

### **Description of Past Spills/Leaks**

While minor leaks of vehicle fluids from heavy equipment operations may have occurred as a result of normal operations at TA-54 Areas G and L, N3B is unaware of any spills that discharged into a watercourse, canyon, or migrated from the site for the period of record under the 2015 MSGP. Minor

spills or leaks (if they occur) will be documented in accordance with N3B-AOP-TRU-3003, *Material Release or Spill* and RP-1-DP-16, *Responding to Radioactive Material Spills*, as appropriate.

### **2.3 Unauthorized Non-Storm water Discharges Documentation**

N3B is unaware of unauthorized non-storm water discharges associated with TA-54 Areas G and L.

Non-authorized spills or unauthorized non-storm water discharges, if they occur, will be documented in accordance with corrective action documentation described in section 6.0 of this SWPPP.

### **2.4 Salt Storage**

Deicing salt is stored in small covered containers at various locations around the facility to deice walkways and small areas.

### **2.5 Sampling Data Summary**

Storm water runoff from TA-54 Area G is monitored by four automated samplers situated outside the facility boundary (Outfall 051, Outfall 072, Outfall 053, and Outfall 069); Area L is monitored by one sampler (Outfall 050) located outside the Area L boundary on the northeastern side. The locations of the samplers are identified on site maps provided in Attachment B. The current sampler locations are consistent with locations previously monitored by LANS. Although sampling at these locations has been ongoing since approximately 2015 (this sampling was performed by LANS before 2018), N3B has elected to reinstate benchmark and impairment sampling for all applicable parameters at each monitored outfall location in 2019. Monitoring requirements applicable to each monitored outfall is summarized in section 4.7.3 of this SWPPP.

### **3.0 Storm water Control Measures**

#### **3.1 Non-Numeric Technology-Based Effluent Limits (BPT/BAT/BCT)**

N3B's CH-TRU organization is responsible for the operational activities conducted at TA-54 Areas G and L, including the implementation of storm water control measures designed to ensure operator safety, environmental protection, and proper use and maintenance of loading/unloading and waste management equipment. N3B maintenance personnel perform routine preventive and corrective maintenance work to ensure industrial equipment is in good working order. Operational procedures incorporate provisions for corrective, predictive, and preventative maintenance and allows for identification and corrections of conditions that have the potential to cause breakdowns or failures that could result in the release of pollutants to the environment.

The following sections describe the storm water control measures in use at TA-54 Areas G and L to meet each of the permit's "non-numeric effluent limits" in Part 2.1.2 of the MSGP.

##### **3.1.1 Minimize Exposure**

N3B recognizes that preventing storm water contact with pollution material is generally more effective and less costly than removal of pollutants from storm water; and use of a combination of control measures is generally more effective at minimizing pollutants than a single control measure. These principles are applied throughout operations at TA-54 Areas G and L.

Structural controls and work/organizational practices used to minimize the exposure of material storage areas and industrial activities to rain, snow, snowmelt, and runoff include the following:

- Maintenance activities are conducted indoors or under cover, when possible, or within a bermed area.
- Leaking vehicle/equipment are not stored within the TSDFs. Ensure leaking vehicles and equipment are contained and promptly move the (non-leaking) vehicle/equipment off site for repair.
- Equipment and vehicle cleaning is performed indoors, under cover, or in bermed areas that prevent runoff and run-on and also capture any overspray.
- Spill cleanup/response materials are readily available.
- Wet clean up practices that would result in the discharge of pollutants to storm water drainage systems are prohibited.
- Prompt cleanup of releases with absorbent pads, biodegradable/bioremediation dry absorbents (Oil Sponge™ or equal), or dispersant/bioremediation liquid product (e.g., MicroBlaze® for stains) is performed.
- Procedures for material storage and handling (spill control) are current and in place.
- Containers that could be susceptible to spillage or leakage are properly labeled to encourage proper handling and facilitate rapid spill response.



- All liquid products are stored within a designated area under cover and within secondary containment. Used oil filters are stored in designated covered bins under cover and within secondary containment.
- Monitoring and facility inspections are conducted to ensure compliance with this SWPPP.

### **3.1.2 Good Housekeeping**

All waste management and storage areas are to be kept clean and neat. Vehicles and other equipment are stored and maintained in areas intended for those purposes.

Operations personnel at TA-54 facilities perform regular inspections to assess general housekeeping in addition to spill prevention and detection, and identification of potential compliance issues. N3B incorporates the following measures in normal TA-54 Areas G and L operations:

- Outside areas are routinely cleaned up.
- Shop areas are swept daily when the facility is active.
- Operational areas are maintained in a clean and orderly state.
- Trash dumpsters are emptied on a regular basis and lids are kept closed when not in use.
- Waste containers within regulated waste storage areas are picked up on an as-needed basis before the container reaches its capacity. Only containers in good condition are used for waste storage.
- Facility inspections are routinely conducted to ensure that no potential contaminants are present in exposed areas.
- Heavy equipment is routinely inspected for leaks and potential problems.
- Measures are implemented to minimize storm water run-on/runoff to maintenance areas.
- Releases are immediately cleaned up with absorbent pads or biodegradable dry absorbents (Oil Sponge™ or equal), or dispersant/bioremediation liquid product (e.g., MicroBlaze® for stains) on concrete or asphalt. Stained base course is removed, containerized, and managed as New Mexico special waste.
- Maintenance activities are conducted indoors or under cover, when possible.
- Sumps and catch basins are routinely cleaned of accumulated debris/sediment when they become two-thirds (2/3) full (the debris surface is maintained at least 6 in. below the lowest outlet pipe).
- All liquid products are stored within labeled containers in a designated area under cover and in secondary containment.
- Wet cleanup practices that would result in the discharge of pollutants to storm water drainage systems are prohibited.
- Wastes are managed and disposed in accordance with the appropriate procedures.

### **3.1.3 Maintenance**

At TA-54 Area G and L facilities, preventive maintenance is performed on all heavy equipment on a routine schedule in accordance with appropriate procedures. Operators perform a pre-operation inspection on equipment before use. These inspections identify any maintenance issues or leaks that need to be remedied.

N3B CH-TRU personnel perform routine inspections to identify facility maintenance issues. CH-TRU personnel additionally maintain appropriate spill response materials within the RCRA-permitted areas and vehicle/equipment maintenance areas.

Routine facility inspections and quarterly visual assessments of Area G and L storm water controls are conducted by the storm water PPT to assess the site conditions and the functionality of site storm water controls. Each type of inspection is discussed in section 4.6 of this SWPPP.

Repair, maintenance, or replacement of BMPs will be conducted as soon as possible in accordance with the timeframes specified in section 6.0 of this SWPPP. Documentation of repairs and maintenance to control measures will be maintained within this SWPPP.

### **3.1.4 Spill Prevention and Response**

Operational controls are implemented to minimize the possibility of spills or releases caused by site operations and to minimize the potential for any off-site impacts in the event a spill does occur. In general, the approach to spill cleanup of a known substance is to first contain the spill by securing the spill source and deploying spill containment materials. If secondary containment is provided (e.g., secondary containment pallets for liquids), it will contain the spill. All spill response will be in accordance with N3B-AOP-TRU-3003, *Material Release or Spill* and RP-1-DP-16, *Responding to Radioactive Material Spills*, as appropriate.

The TA-54 Operations Center can be reached at 505-257-8400. If a fire or explosion occurs, or if the potential for such exists, the situation must be reported by dialing 911 or by activating a fire pull box. Personnel should dial 911 in the event of an employee injury. In the event of a spill, the CH-TRU Operations Center will notify Regulatory Compliance. Reporting, if necessary, will be completed by Regulatory Compliance in compliance with N3B and DOE policies and federal and state regulatory reporting requirements. In addition to fulfilling reporting requirements, spill reports will assist user groups and N3B management in assessing the cause of a spill and in executing corrective action.

There are two types of spill reporting required at N3B, which are identified as (1) internal spill record keeping and (2) external agency notification. Copies of internal spill reports will be kept by the Storm water PPT member Regulatory Compliance, and the responsible organization. External agency notification (as determined by Regulatory Compliance) may consist of verbal or written notification to the National Response Center, EPA Region VI, the New Mexico Environment Department, or the Pueblos.

### **3.1.5 Erosion, Sediment, and Storm water Runoff Controls**

Physical controls are in place throughout the site to minimize erosion and to manage sediment and storm water runoff from the site. Run-on to the site is minimized through the use of established native vegetation and an earthen berm and ditches in the site's border areas. Storm water controls used on site may include the following:

- Rock check dams
- Silt fence
- S-fence and prowattles
- Rock gabions
- Vegetation
- Turf reinforcement mat (TRM)

- Concrete blankets
- Gravel and rock rundowns
- Sediment ponds
- Earthen, asphalt, or cement berms, curbs, and swales
- Energy dissipaters
- Culverts
- Site grading

### **3.1.6 Salt Storage Piles or Piles Containing Salt**

Deicing salt is stored in covered containers in close proximity to buildings, walkways, and areas prone to ice.

### **3.1.7 Dust Generation and Vehicle Tracking of Industrial Materials**

Industrial activities conducted on-site occur primarily within the central and eastern portions of Area G. The ground surface within these areas is comprised mostly of exposed tuff and base-course gravel. Dust generated in these areas is minimized by the application of water.

## **3.2 Sector-Specific Non-Numeric Effluent Limits**

TA-54 Areas G and L are subject to sector-specific requirements for industrial activity Subpart K-Sector K – *Hazardous Waste Treatment, Storage or Disposal Facilities* specified in the 2015 MSGP Part 8, Subpart K. No Sector K specific non-numeric effluent limits apply to Area G and L operations.

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

TA-54 Areas G and L contain landfills that are not subject to the provisions of RCRA Subtitle C. These facilities are not subject to the effluent limitations guidelines specified by Table 8.K-2 of the 2015 MSGP.

## **3.4 Water Quality-based Effluent Limitations and Water Quality Standards**

Sampling required by the 2015 MSGP is summarized in section 4.7.3 of this SWPPP. Data from storm water samples collected through the implementation of this SWPPP will be maintained in the Environmental Information Management (EIM) System.

## **4.0 Schedules and Procedures**

Pickup and disposal of regulated wastes is scheduled and tracked by CH-TRU using an internal waste compliance and tracking system (WCATS). Trash generated and stored on-site in a dumpster is removed from the site at least monthly.

Waste inspections are scheduled and conducted based on the type of waste accumulation area where the waste is managed. These inspections include visual checks for leaks and condition of containers, tanks, and packaging.

Procedures supporting the implementation of this SWPPP are listed in Attachment D.

### **4.1 Good Housekeeping**

Good housekeeping practices are incorporated into all TA-54 Area G and L operations. All areas are maintained in a clean and orderly state and inspected regularly to document site conditions. Standard operating and maintenance procedures are designed to minimize the potential for spills, releases, exposure of materials, or any other events that could adversely affect the quality of storm water that may be transported out of the area by runoff. Normal maintenance of control measures will be conducted as soon as possible in order to minimize the potential for pollutant discharges. These normal maintenance measures will be considered preventative maintenance and will not be recorded as corrective actions, although each preventative maintenance measure taken will be documented and tracked in the MainConn storm water database and included in the annual MSGP report as appropriate. In the event that a control requires significant repair or replacement, this action will be recorded as a corrective action.

Good housekeeping practices implemented throughout TA-54 Areas G and L are summarized in section 3.0 of this SWPPP.

### **4.2 Maintenance**

All industrial equipment must be regularly inspected (e.g., preventative maintenance, and before use), tested, maintained, and repaired to avoid situations that may result in leaks, spills, and other releases of pollutants in storm water discharge to receiving waters.

All control measures used to achieve effluent limits required by the MSGP will be maintained in effective operating condition. Nonstructural control measures (such as spill kits, training etc.) will also be diligently maintained.

If control measures need to be replaced or repaired, necessary repairs or modifications must be made as expeditiously as practicable.

All corrective actions will be documented in the N3B MSGP storm water database. This database will be used to track the status of corrective actions for reporting purposes.

N3B CH-TRU maintains a list of all N3B-owned or -controlled equipment. This list identifies when equipment is due for preventative maintenance or inspection. Heavy equipment and vehicle maintenance and inspections are tracked by CH-TRU.

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

Spills or releases are minimized by the application of exposure minimization and good housekeeping procedures, BMPs, and engineering and administrative controls.

Examples of spill prevention measures include the following:

- Storage of liquids in labeled containers within secondary containment and under cover
- Placement of drip pans and/or secondary containment systems under leaking or leak prone equipment
- Prompt cleanup of releases with absorbent pads or biodegradable/bioremediation dry absorbents (Oil Sponge™ or equal), or dispersant/bioremediation liquid product (e.g., MicroBlaze® for stains on concrete and asphalt)
- Appropriate spill cleanup/response materials are readily available.
- Spill response at TA-54 Areas G and L will be directed by N3B-AWMOOP-TRU-3003, *Material Release or Spill* and RP-1-DP-16, *Responding to Radioactive Material Spills*, as appropriate.

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

The areas surrounding TA-54 Areas G and L are stabilized with established native vegetation. Storm water flow velocities are reduced through BMPs before running off-site. These areas are routinely inspected in conjunction with the implementation of this SWPPP.

#### **4.5 Employee Training**

Employee training is essential for effective implementation and maintenance of this SWPPP. The objective of the training program is to cover all required training topics identified in the 2015 MSGP, review the most current SWPPP with employees and managers, help employees recognize situations that could lead to storm water contamination, assist employees in recognizing issues that may require corrective action and identifying appropriate corrective actions, and train personnel in proper spill response and control procedures.

All employees who work in areas where industrial materials or activities are exposed to storm water or who are responsible for implementing activities necessary to meet the conditions of the 2015 MSGP will receive training annually. This includes all operational site workers, managers, and supervisors at TA-54, and all Storm water PPT members. Annual employee training ensures that personnel are aware of the regulatory requirements of the 2015 MSGP, monitoring results, control measures, and some components of the SWPPP. After training, the employees are able to recognize and avoid situations that could lead to storm water contamination, prevent spills and releases, and respond safely and effectively to a spill or release.

The TA-54 MSGP training includes an annual MSGP training slide presentation and a review of this SWPPP to address the following topics:

- Specific control measures used on-site
- Storm water monitoring results
- Inspections
- Planning
- Reporting
- Spill prevention, response, and cleanup
- Good housekeeping and material management practices to prevent storm water pollution

- Site-specific structures, equipment, and procedures designed to minimize storm water pollution and soil erosion
- Documentation requirements
- Recognition of pollutant sources
- Site-specific endangered species and historical considerations

Training activities are documented in accordance with N3B's training organization. Training records (inclusive of SWPPP training) are maintained by N3B's training organization.

#### **4.6 Routine Facility Inspections and Quarterly Visual Assessments**

Two types of inspections are required by the 2015 MSGP permit, including (1) routine facility inspections (RFIs) and (2) quarterly visual assessments (QVAs) of storm water discharges at TA-54 Areas G and L.

##### **4.6.1 Routine Facility Inspections**

RFIs will be conducted on a quarterly basis by the PPT lead or designee. Each RFI inspection will include all facility areas where industrial materials or activities are exposed to storm water, as well as storm water control measures.

The SWPPP team member performing the inspection will use the RFI work statement provided in Attachment D of this SWPPP to document each inspection. The completed work statements will be signed by an authorized representative and become a quality record in Attachment D of this plan.

One RFI per year must be conducted during a period when a storm water discharge is occurring.

Routine facility inspections will record and evaluate the following, at a minimum:

- Inspection date and time
- Name(s) and signature(s) of inspector(s)
- Weather information and a description of any discharge(s) occurring at the time of the inspection
- Any previously unidentified discharges of pollutants from the site
- Any control measures needing maintenance or repairs
- Any failed control measures that need replacement
- Must describe any discharges occurring at the time of the inspection
- Any unidentified discharges and/or pollutants from the site
- Any evidence of, or potential for, pollutants entering the drainage system
- Observations regarding the condition of the outfalls
- Any incidents of noncompliance observed
- Any additional control measures needed to comply with the MSGP

At a minimum, specific areas of the facility to be inspected include:

- Storage areas for vehicles/equipment awaiting maintenance
- Fueling areas
- Indoor and outdoor vehicle/equipment maintenance areas
- Material storage areas
- Vehicle/equipment cleaning areas
- Loading/unloading areas
- Used oil storage area
- Waste storage area (e.g., solid waste dumpster)

Routine facility inspections occur on the following schedule for each calendar year (CY):

CY Routine Facility Inspections		
January 1	–	March 31
April 1	–	June 30
July 1	–	September 30
October 1	–	December 31

Any required corrective actions identified during the inspection will be addressed in accordance with Parts 3.1 and 3.2 of 2015 MSGP, and all applicable N3B procedures.

**4.6.2 Quarterly Visual Assessment of Storm water Discharges**

The QVAs are conducted at the outfalls for TA-54 Areas G and L by qualified CH-TRU personnel and documented using a blank QVA work statement provided in Attachment E.

Each QVA will:

- Be conducted on a representative sample of a measurable discharge
- Use a clean clear glass sample container in a well-lit area
- Be collected in the first 30 min of a discharge from a storm event or will document why it could not be collected during the specified time frame (adverse conditions, snowmelt, etc.)
- Be conducted at least 72 hr since the last storm event or will document why it was collected sooner
- Include documentation of rationale if a visual assessment is unable to be collected in a quarter (no precipitation event or adverse conditions)
- Perform an additional assessment during the next qualifying storm event if unable to perform it in a particular quarter

Collection of quarterly visual assessments occurs on the following schedule for each CY in accordance with N3B EPC-CP-QP-064 *MSGP Storm Water Visual Inspections*.

CY Quarterly Visual Assessments		
April 1	–	May 31
June 1	–	July 31
August 1	–	September 30
October 1	–	November 30

The visual assessment will evaluate storm water for the following water quality characteristics:

- color
- odor
- clarity
- floating solids
- settled solids
- suspended solids
- foam
- oil sheen
- other (i.e., obvious indicators of storm water pollution)

Individual(s) performing a visual assessment will document potential storm water pollution problems observed using the QVA form in accordance with EPC-CP-QP-064, *MSGP Storm Water Visual Inspections*.

Corrective actions identified during the assessment will be addressed in accordance with Part 4 of the 2015 MSGP and N3B-SOP-ER-5016 *Multi-Sector General Permit Storm Water Corrective Actions*. The completed QVA work statement will be included in Attachment E of this SWPPP.

#### **4.7 Monitoring**

Monitoring activities applicable to TA-54 Areas G and L include the following:

- Quarterly benchmark monitoring
- Effluent limitations guidelines monitoring
- State- or tribal-specific monitoring
- Impaired waters monitoring

Analytical monitoring composed of quarterly benchmark and annual impaired waters monitoring is performed on storm water discharges from the site. Monitoring events occur from storm events that result in an actual discharge from the site and that follow the preceding measurable storm events by at least 72 hr (3 days). For runoff from snowmelt, the monitoring is performed at a time when a measurable discharge from the site occurs.



Samples are analyzed consistent with 40 Code of Federal Regulations Part 136 analytical methods using test procedures with quantification limits at or below benchmark values for all benchmark parameters associated with this facility or below the applicable State of New Mexico water quality criterion. Runoff samples are collected by one or more grab sample from a discharge and collected within the first 30 min of a measurable storm event. If it is not possible to collect the sample within the first 30 min of a measurable storm event, the sample is collected as soon as practicable after the first 30 min and documentation is kept with the SWPPP explaining why it was not possible to take samples within the first 30 min. An MSGP sampling and analysis plan is developed every year that identifies the current monitoring year analytical and/or visual assessment requirements, analytical methods, preservation requirements, volume requirements, type of shipping containers, type of sampler to be used, and holding times for each monitored outfall.

**4.7.1 Monitoring Schedule**

For this permit term, monitoring began the first full quarter following transition of TA-54 operations from LANS to N3B, beginning with the second quarter of 2018. Benchmark monitoring will continue on a quarterly basis at least once in each of the intervals identified below, provided a storm event occurs that results in an actual discharge, until sampling requirements are satisfied:

Monitoring Schedule		
April 1	–	May 31
June 1	–	July 31
August 1	–	September 30
October 1	–	November 30

**Impaired waters monitoring is performed on an annual basis** with one sample collected in the period between April 1 and November 30 of each CY, unless there is no qualifying storm event that results in a discharge from the facility.

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. Under these conditions, benchmark monitoring cannot be performed on the 2015 MSGP quarterly schedule. However, the permit allows monitoring events to be distributed during seasons when precipitation occurs, or when snowmelt results in a measurable discharge from the site. Therefore, LANL has modified the quarterly schedule as identified above. If adverse weather conditions prevent the collection of samples according to the relevant monitoring schedule, or a qualifying storm event has not occurred during these identified quarters, a substitute sample will be collected during the next qualifying storm event or as soon as practical.

**4.7.2 Outfalls: Discharge Points and Substantially Identical Outfalls**

Area G utilizes substantially identical outfalls for monitoring events. The outfalls have been identified as substantially identical based on common potential pollutant sources, drainage areas, activities within the drainage areas, and general site topography and characteristics. Site maps with detailed outfall information are provided in Attachment B. QVAs of substantially identical outfalls (SIOs) will be performed on a rotating basis throughout the permit term in which at least one SIO assessment will also apply to the other SIOs associated with their respective discharge point.

Required information supporting the outfall determination is as follows:

**TA 54 Area G**

**Monitored Outfall 051:** Drainage is received from Dome 49 and surrounding areas and structures located to the north and northwest of Monitored Outfall 051. Drainage is collected in the area east of the southern end of dome 49 and diverted through culverts to Pajarito Canyon and discharge point 051.

**SIO 052:** Drainage is received from the east side of Dome 49, structures 54-0224 and 54-0283, the TA-54 access road and a spoils pile. Drainage is diverted through a culvert system to the southeast toward Pajarito Canyon.

**Monitored Outfall 072:** Drainage is received from the northwest portion of the site, including 54-0153 and surrounding features and structures. Drainage flows to a small sediment basin located and discharged to the northeast to Cañada del Buey at Monitored Outfall discharge point 072.

**SIO-070:** Drainage flows from the northwest and northeast sides of structure 54-0033 through a riprap-reinforced concrete swale and discharged to the northeast to Cañada del Buey.

**SIO-071:** Drainage flows from structure 54-0153 and surrounding areas to a culvert and concrete/asphalt swale and then to a rock blanket rundown. Discharge is to the north to Cañada del Buey.

**Monitored Outfall 053:** This outfall receives drainage from the eastern portions of the site, including structures 54-0229, 54-0230, 54-0231 and 54-0232 and surrounding areas. Discharge is to the south toward Pajarito Canyon and Monitored Outfall 053.

**SIO-065:** Drainage is received from the east, from structures 54-0229, 54-0230, 54-0231 and 54-0232 and surrounding areas. Drainage is discharged to the west and then flows south to Pajarito Canyon.

**SIO-066:** Drainage is received from the northeast and east and discharged in an easterly direction into Pajarito Canyon.

**Monitored Outfall 069:** Drainage to this outfall flows primarily from the north. Monitored Outfall 069 is to the south to Pajarito Canyon.

**SIOs -060, -061, -062 and -063:** These SIOs receive drainage from the north and northeastern portions of the site. Drainage is discharged to the south and flows to Pajarito Canyon.

**SIOs -054, -055, -056, -057, -058, -059, -067, and -068** These SIOs receive drainage from the west which flows south to Pajarito Canyon.

Area G (West Map): Discharge Points (Monitored Outfalls) and SIOs				
Outfall ID	Outfall Location	Activities/ Potential Pollutants*	Runoff Coefficient	Control Measures
Monitored Outfall 051	Southeast of west TSDF area; Discharge to Pajarito Canyon	Radionuclides – LLW, mixed LLW, TRU and mixed TRU, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze	85%	Culvert with flow velocity dissipaters, rock check dams, asphalt swales, riprap, silt fence

Area G (West Map): Discharge Points (Monitored Outfalls) and SIOs				
Outfall ID	Outfall Location	Activities/ Potential Pollutants*	Runoff Coefficient	Control Measures
SIO 052	East side of west TSDF area; discharge to Pajarito Canyon	Radionuclides – LLW, mixed LLW, TRU and mixed TRU, sediment from soil stockpile, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze	85%	Culverts, rock check dams, riprap, TRM, small detention basins, silt fence
Monitored Outfall 072	Northeast fence line, east of structure 54-033; discharge to Cañada del Buey	Radionuclides – LLW, mixed LLW, TRU and mixed TRU, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze	85%	Culvert, riprap, sediment pond, silt fence
SIO 070	Northeast fence line, northeast side of structure 54-0033; discharge to Cañada del Buey			Concrete swale, riprap
SIO 071	North fence line, northwest of structure 54-0033; discharge to Cañada del Buey			Concrete and asphalt swale/rundown, rock blanket, silt fence

\* VOCs = volatile organic compounds; SVOCs = semivolatile organic compounds.

Area G (East Map): Discharge Points (Monitored Outfalls) and SIOs				
Outfall ID	Outfall Location <sup>1</sup>	Activities/ Potential Pollutants <sup>2</sup>	Runoff Coefficient	Control Measures
Monitored Outfall 053	South of southern industrial area and east of structure 54-0230; discharge to Pajarito Canyon	Radionuclides – LLW, mixed LLW, TRU and mixed TRU, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze general drainage area for canyon	65%	Rock blanket, TRM, riprap, concrete drainage channel, sediment trap, gabion, weir, sediment basin with dike and outlet
SIOs 065 and 066	2-in. PVC pipe holes in concrete curb/berm west of structures 54-0229–54-0232; discharge to Pajarito Canyon	Radionuclides – LLW, mixed LLW, TRU and mixed TRU, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze	90%	Concrete curb/berm, rock rundown
Monitored Outfall 069	Northeast of structures 54-0229–54-0232; discharge to Pajarito Canyon	Radionuclides – LLW, mixed LLW, TRU and mixed TRU, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze	90%	Rock check dams, silt fence
SIOs 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 067, and 068	2-in. PVC pipe holes in concrete curb/berm east of structures 54-0229–54-0232; discharge to Pajarito Canyon			Concrete curb/berm, rock rundown

<sup>1</sup> PVC = polyvinyl chloride.

<sup>2</sup> VOCs = volatile organic compounds; SVOCs = semivolatile organic compounds.

**Area L**

**Monitored Outfall 050:** Drainage from the entire facility (Area L) flows in a general easterly direction to this monitored outfall, located at the northeastern corner of the site. Discharge is to the northeast to Cañada del Buey.

Area L: Discharge Point (Monitored Outfall)				
Outfall ID	Outfall Location	Activities/Potential Pollutants*	Runoff Coefficient	Control Measures
Discharge point 050	Southeast corner of facility boundary (Discharge to Cañada del Buey)	Radionuclides – LLW, mixed LLW, TRU and mixed TRU, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze	90%	Culvert with flow velocity dissipater (standpipe)

\* VOCs = volatile organic compounds; SVOCs = semivolatile organic compounds.

**4.7.3 Summary of Monitoring Requirements**

The benchmark and impairment monitoring requirements applicable to each outfall are identified in the current MSGP Sampling and Analysis Plan and summarized in the following sections. These plans are updated each CY, based on prior results and updated impairments, as needed.

Specific monitoring information contained in the SAP includes the following:

- Analytical constituent(s) per outfall
- Sample type (grab)
- Container type
- Holding times
- Analytical method
- Frequency of analysis (annual or quarterly)
- Preservation requirements
- Filtered status
- Sample volume

**Note:** Matrix type (snow melt or rainfall) is identified in field chain-of-custody form.

The 2015 MSGP allows for discontinuation of monitoring for quarterly benchmark and impaired waters pollutants when defined conditions are met. As such, monitoring requirements may decrease over the lifespan of the MSGP. The following table reflects the monitoring requirements in effect at the beginning of the 2020 monitoring year.

TA-54 Area G Outfall 051							
Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte*	Filtered/Unfiltered	Regulatory Standard	Units	Regulatory Standard Type
Impaired Water	—	NM-128.A_08	PCBs Total Aroclors	UF	0.00064	µg/L	NM 2018 HH Persistent
Impaired Water	—	NM-128.A_08	Al (total recoverable)	F 10u	660	µg/L	NM 2018 Aquatic Acute
Impaired Water	—	NM-128.A_08	Cu (dissolved)		20.8	µg/L	NM 2018 Aquatic Acute
Impaired Water	—	NM-128.A_08	Gross Alpha (adjusted)	UF	15	pCi/L	NM 2018 Livestock Watering
Impaired Water	—	NM-128.A_08	CN (total recoverable)	UF	5.2	µg/L	NM 2018 Wildlife Habitat
Quarterly Benchmark	K	—	Ag (total)	U	0.7	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	As (total)	F	150	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Cd (total)	F	0.8	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	CN (total)	UF	22	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	COD	UF	120,000	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Hg (total)	UF	1.4	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Mg (total)	UF	64	µg/L	2015 MSGP QBM
Quarterly Benchmark	K	—	NH-3	UF	2140	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Pb (total)	F	23	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	Se (total)	UF	5	µg/L	2015 MSGP QBM Sector K

TA-54 Area G Outfall 053							
Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte*	Filtered/ Unfiltered	Regulatory Standard	Units	Regulatory Standard Type
Impaired Water	—	NM-128.A_08	PCBs Total Aroclors	UF	0.00064	µg/L	NM 2018 HH Persistent
Impaired Water	—	NM-128.A_08	Al (total recoverable)	F	660	µg/L	NM 2018 Aquatic Acute
Impaired Water	—	NM-128.A_08	Cu (dissolved)	F	20.8	µg/L	NM 2018 Aquatic Acute
Impaired Water	—	NM-128.A_08	Gross Alpha (adjusted)	UF	15	pCi/L	NM 2018 Livestock Watering
Impaired Water	—	NM-128.A_08	CN (total recoverable)	UF	5.2	µg/L	NM 2018 Wildlife Habitat
Quarterly Benchmark	K	—	Ag (total)	F	0.7	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	As (total)	F	150	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Cd (total)	F	0.8	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	CN (total)	UF	22	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	COD	UF	120,000	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Hg (total)	UF	1.4	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Mg (total)	UF	64	µg/L	2015 MSGP QBM
Quarterly Benchmark	K	—	NH-3	UF	2140	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Pb (total)	F	23	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	Se (total)	UF	5	µg/L	2015 MSGP QBM Sector K

TA-54 Area G Outfall 069							
Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte*	Filtered/ Unfiltered	Regulatory Standard	Units	Regulatory Standard Type
Impaired Water	—	NM-128.A_08	PCBs Total Aroclors	UF	0.00064	µg/L	NM 2018 HH Persistent
Impaired Water	—	NM-128.A_08	Al (total recoverable)	F	660	µg/L	NM 2018 Aquatic Acute
Impaired Water	—	NM-128.A_08	Cu (dissolved)	F	20.8	µg/L	NM 2018 Aquatic Acute
Impaired Water	—	NM-128.A_08	Gross Alpha (adjusted)	UF	15	pCi/L	NM 2018 Livestock Watering
Impaired Water	—	NM-128.A_08	CN (total recoverable)	UF	5.2	µg/L	NM 2018 Wildlife Habitat
Quarterly Benchmark	K	—	Ag (total)	F	0.7	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	As (total)	F	150	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Cd (total)	F	0.8	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	CN (total)	UF	22	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	COD	UF	120,000	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Hg (total)	UF	1.4	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Mg (total)	UF	64	µg/L	2015 MSGP QBM
Quarterly Benchmark	K	—	NH-3	UF	2140	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Pb (total)	F	23	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	Se (total)	UF	5	µg/L	2015 MSGP QBM Sector K

TA-54 Area G Outfall 072							
Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte*	Filtered/ Unfiltered	Regulatory Standard	Units	Regulatory Standard Type
Impaired Water	—	NM-128.A_00	PCBs Total Aroclors	UF	0.00064	µg/L	NM 2018 HH Persistent
Impaired Water	—	NM-128.A_00	Gross Alpha (adjusted)	UF	15	pCi/L	NM 2018 Livestock Watering
Quarterly Benchmark	K	—	Ag (total)	F	0.7	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	As (total)	F	150	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Cd (total)	F	0.8	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	CN (total)	UF	22	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	COD	UF	120,000	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Hg (total)	UF	1.4	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Mg (total)	UF	64	µg/L	2015 MSGP QBM
Quarterly Benchmark	K	—	NH-3	UF	2140	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Pb (total)	F	23	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	Se (total)	UF	5	µg/L	2015 MSGP QBM Sector K



TA-54 Area L Outfall 050							
Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte*	Filtered/Unfiltered	Regulatory Standard	Units	Regulatory Standard Type
Impaired Waters	—	NM-128.A_00	PCBs Total Aroclors	UF	0.00064	µg/L	NM 2018 HH Persistent
Impaired Waters	—	NM-128.A_00	Adjusted Gross Alpha	UF	15	pCi/L	NM 2010 Livestock Watering
Quarterly Benchmark	K	—	Ag (total)	F	0.7	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	As (total)	F	150	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Cd (total)	F	0.8	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	CN (total)	UF	22	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	COD	UF	120,000	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Hg (total)	UF	1.4	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Mg (total)	UF	64	µg/L	2015 MSGP QBM
Quarterly Benchmark	K	—	NH-3	UF	2140	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Pb (total)	F	23	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	Se (total)	UF	5	µg/L	2015 MSGP QBM Sector K

\* Ag = silver; Al = aluminum; As = arsenic; Cd = cadmium; CN = Cyanide; COD = chemical oxygen demand; Cu = copper; Hg = mercury; Mg = magnesium; NH-3 = ammonia; Pb = lead; and Se = selenium.

#### 4.7.4 Monitoring Results

If the average of the four monitoring values for any parameter exceeds the applicable benchmark and is determined to not be influenced by background levels, or if before completion of four quarterly samples, an exceedance of the four quarter average is mathematically certain (and exceeds site-specific background), the PPT and Regulatory Compliance personnel will:

- Review the selection, design, installation, and implementation of control measures to determine if modifications are necessary to meet the non-numeric technology-based effluent limits
- Implement any modifications determined necessary or appropriate
- Continue quarterly monitoring until four additional quarters of monitoring have been completed for which the average does not exceed the benchmark

If the average of the four monitoring values for any parameter does not exceed the benchmark, monitoring for that particular parameter will no longer be performed.

Monitoring for impaired water parameters will be discontinued if the pollutant for which the water body is impaired is not detected or is determined to be solely attributable to natural background levels in storm water (or surface water regarding gross alpha) discharged from the facility after one year of monitoring. In addition, if the 303d list no longer identifies a pollutant as causing impairment, monitoring from that pollutant will be discontinued.

#### 4.7.5 Recordkeeping

For each monitoring event, except snowmelt monitoring, the following information will be recorded and maintained through documentation provided on work orders, chain-of-custody forms, discharge monitoring records, and off-site analytical laboratory reports:

- Date, exact place, and time of sampling or measurements
- Date and duration (in hours) of the rainfall event
- Rainfall total (in inches) for that rainfall event
- Time (in days) since the previous measurable storm event
- Individual(s) who performed the sampling or measurements
- Date(s) analyses were performed
- Individual(s) who performed the analyses
- Analytical techniques or methods used
- Results of such analyses

For snowmelt monitoring, all information except rainfall event durations, totals, and time since previous event will be included.

All analytical data from monitoring storm water will be maintained in EIM.

## 5.0 Documentation to Support Eligibility Considerations Under Other Federal Laws

### 5.1 Documentation Regarding Endangered Species

The LANL “Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory” (HMP) (<https://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-15-28610>) was prepared to provide for the protection of federally listed threatened and endangered species and their habitats at LANL. The HMP was designed to be a comprehensive landscape-scale management plan that balances the current operations and future development needs of LANL with the habitat requirements of threatened and endangered species. It also facilitates DOE compliance with the Endangered Species Act and related federal regulations. The HMP received concurrence from the U.S. Fish and Wildlife Service (USFWS), and was first implemented in 1999. All changes to the HMP, such as adding new species or changing requirements, are assessed in a new consultation with the USFWS before being implemented. The HMP provides guidance by species for different types of activities allowed without further review by the USFWS.

Currently, the only federally listed species that have habitat or occur at LANL are the Southwestern Willow Flycatcher (*Empidonax trailii extimus*), Jemez Mountains Salamander (*Plethodon neomexicanus*), and Mexican Spotted Owl (*Strix occidentalis lucida*). Suitable habitats for these species, along with a protective buffer area surrounding the habitats, have been designated as areas of environmental interest (AEIs). An AEI consists of a core area that contains important breeding or wintering habitat for a specific species and a buffer area around the core area. The buffer protects the core area from disturbances that would degrade the value of the core area to the species.

The HMP includes ecorisk analyses, which account for any industrial facility’s storm water discharges, allowable non-storm water discharges, and storm water discharge-related activities. In addition, the LANL site-wide environmental impact statement biological assessment covered the continuation of LANL operations and included outfalls (<https://www.energy.gov/nepa/downloads/eis-0380-final-site-wide-environmental-impact-statement>).

As determined by earlier evaluations, storm water discharges, allowable non-storm water discharges, and storm water discharge-related activities from LANL MSGP locations, including TA-54 Areas G and L, are not likely to adversely affect any species that is federally listed as endangered or threatened under Criterion D Section iii of the Endangered Species Act. These activities will also not result in the adverse modification or destruction of habitat that is federally designated as “critical habitat” under the Endangered Species Act. New activities are evaluated to determine if they will have an impact to any species. If an activity can be completed within the guidelines of the HMP, it can go forward as scheduled; however, if the activity cannot comply with the guidelines, the HMP requires that a project-specific biological assessment be prepared for the action and go through the consultation process with the USFWS. Figure 5.1-1 illustrates the endangered species habitat within LANL.

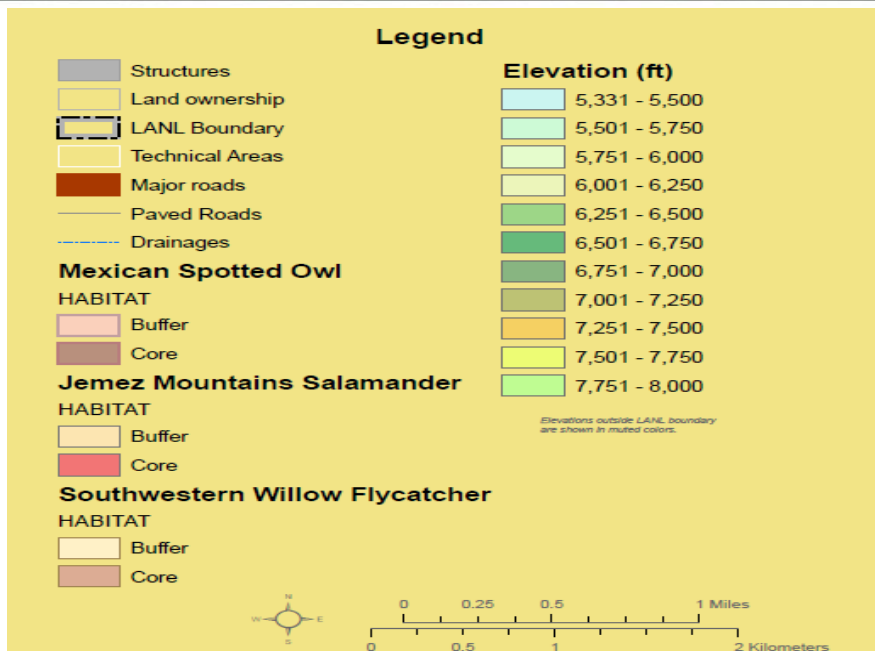
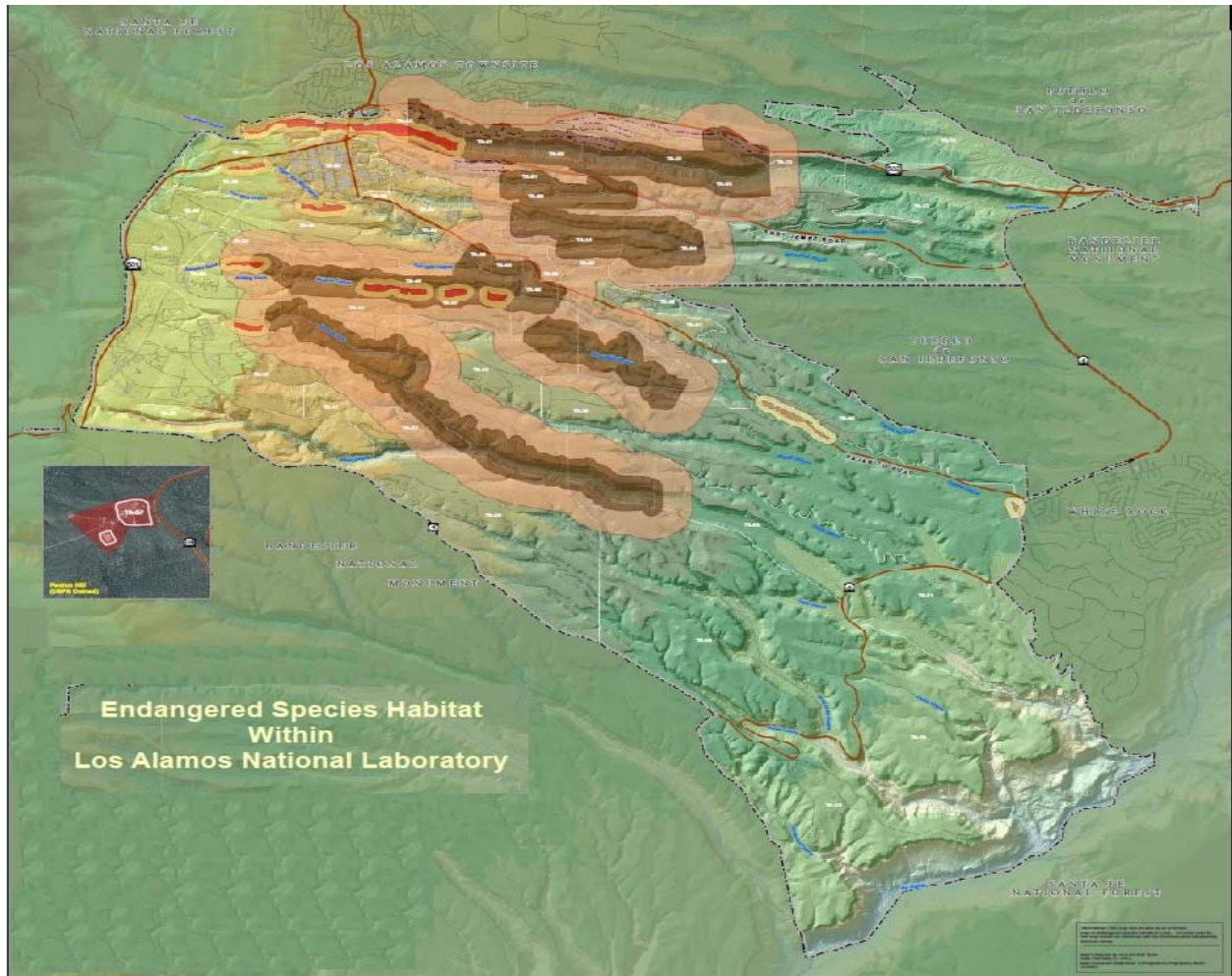


Figure 5.1-1 Endangered species habitat within LANL

## **5.2 Documentation Regarding Historic Properties**

In August 2015 and December 2008, the LANS Cultural Resources Team (using GPS spatial data as well as conducting visual inspections), reviewed the LANL industrial sites and their associated outfalls and monitoring stations subject to the 2015 MSGP (Permit #NMR050000) for effects on historic properties.

TA-54 Areas G and L were found to pose no effect and to be in compliance with Section 106 of the National Historic Preservation Act.

## 6.0 Corrective Actions and Deadlines

### 6.1 Immediate Actions

Upon discovery/occurrence or at most within 24 hr, any of the following conditions must be documented in N3B's MSGP Storm water database. As necessary, initiation of corrective action will be triggered and tracked for completion.

- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-storm water not authorized by this or other NPDES permit) occurs at the facility
- Control measures are determined to be insufficient to meet applicable water quality standards, not functional or requiring maintenance
- An inspection or evaluation of the facility determines that modifications to the control measures are necessary to meet the non-numeric effluent limits in this permit
- A determination that a control measure was never installed, was installed incorrectly, is not in accordance with the 2015 MSGP, or is not properly operated or maintained
- Construction or a change in design, operation, or maintenance at the facility that significantly changes the nature of pollutants discharged in storm water, 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), then this is considered a benchmark exceedance, triggering this review

**Note:** A benchmark exceedance does not trigger a corrective action if it is determined that the exceedance is solely attributable to natural background sources, or if it is determined that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practices.

Routine maintenance requirements noted during inspections will be entered in the N3B MSGP Storm water database for tracking and reporting purposes, as appropriate. Required maintenance, however, will not be considered or recorded as corrective actions, unless the functionality of a storm water control is compromised by the noted condition.

### 6.2 Subsequent Actions

All conditions subject to corrective action will be documented in the N3B MSGP Storm water database upon discovery/occurrence. While attempts will be made to immediately address each condition subject to corrective action, investigation or correction of the condition is required within 14 days of discovery. In some instances, it may be infeasible to complete the corrective action within this time frame, in which case the situation will be documented along with details to describe how the potential impacts from the condition will be minimized (such as the installation of temporary controls, etc.) and additional time required to complete the corrective action. If completion of the corrective action exceeds 45 days from the date of discovery/occurrence, Regulatory Compliance will notify EPA Region 6.

All modifications, including temporary measures, must be incorporated into this SWPPP.

## 7.0 SWPPP Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated information submitted.


Based on my inquiry of the person(s) who manage the system, or person(s) directly responsible for information gathering, the information received is to the best of my knowledge true, accurate, and complete.

I understand and acknowledge the implications and penalties for submitting false information, including the possibility of a fine and/or imprisonment.

### SIGNATURE OF CERTIFICATION:

Printed Name: Emily Day

Title: N3B Regulatory Compliance Director

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

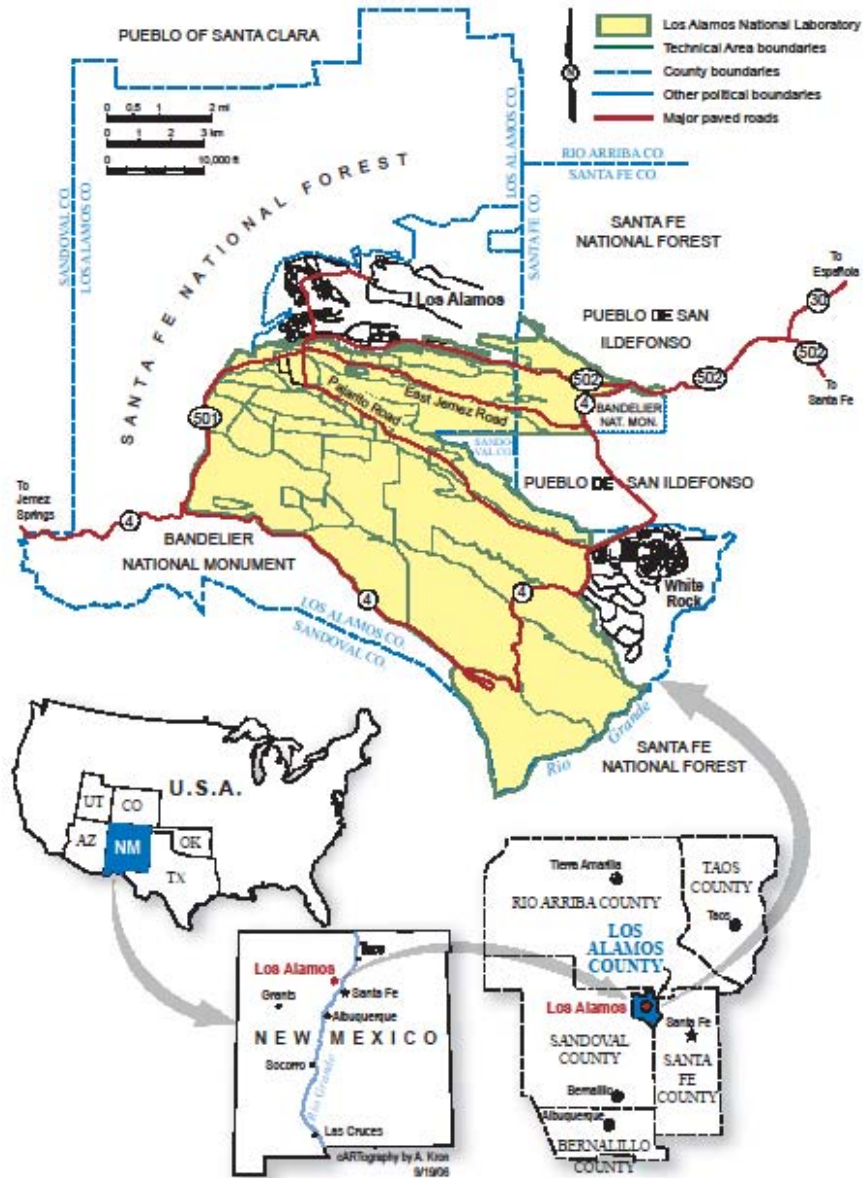
Date: 2/19/20

## **8.0 SWPPP Modifications**

Modifications to this SWPPP will be made as necessary to reflect corrective actions or facility changes. Modifications to this document can be initiated by any storm water PPT member with review provided by Regulatory Compliance and approval provided in accordance with the signatory requirements specified in the 2015 MSGP. A record of all document modifications will be tracked using the form provided in Attachment F.



Attachment A. General Location Map



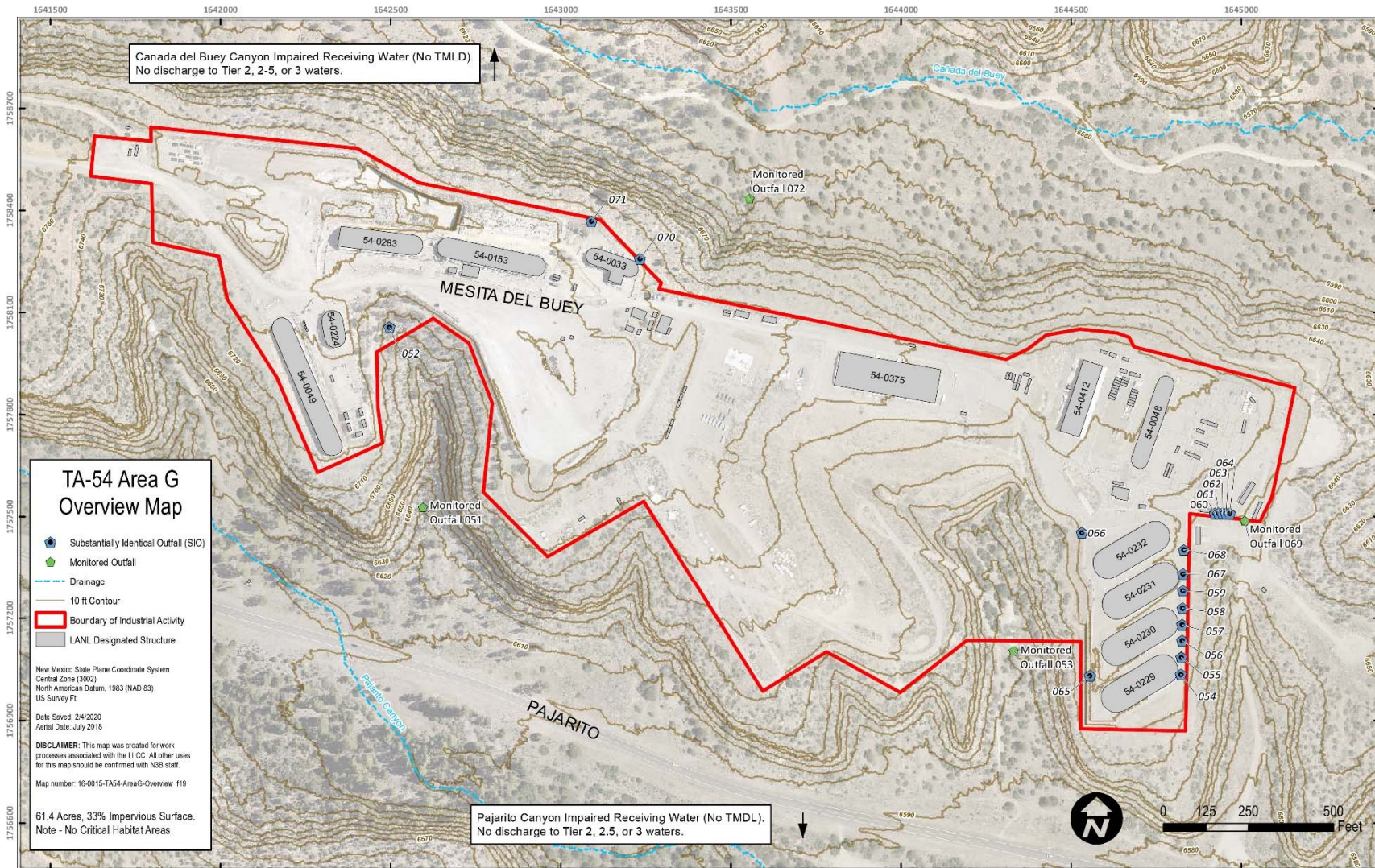


**Attachment B. Site Maps**



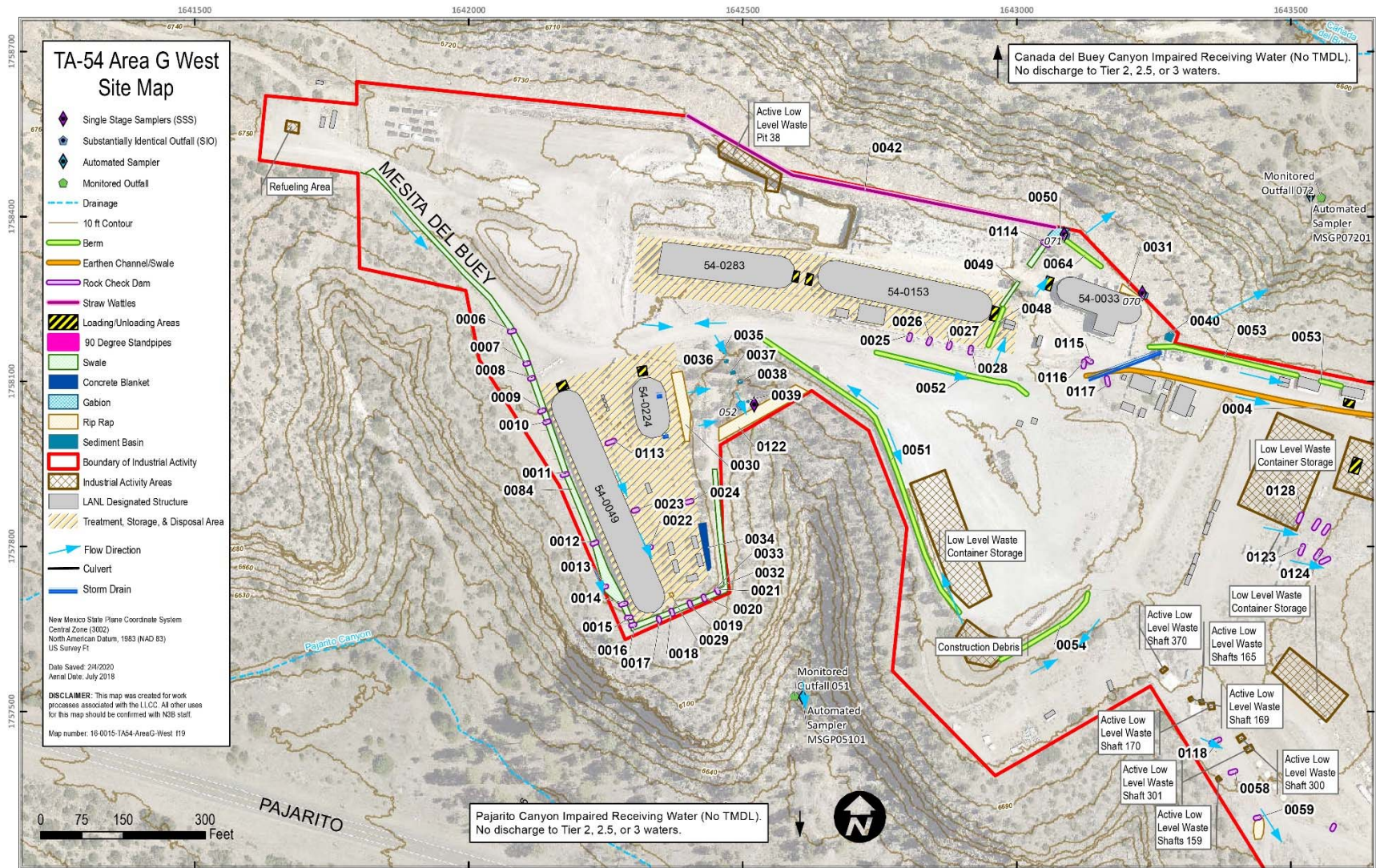


TA-54 Areas G and L  
Storm Water Pollution Prevention Plan



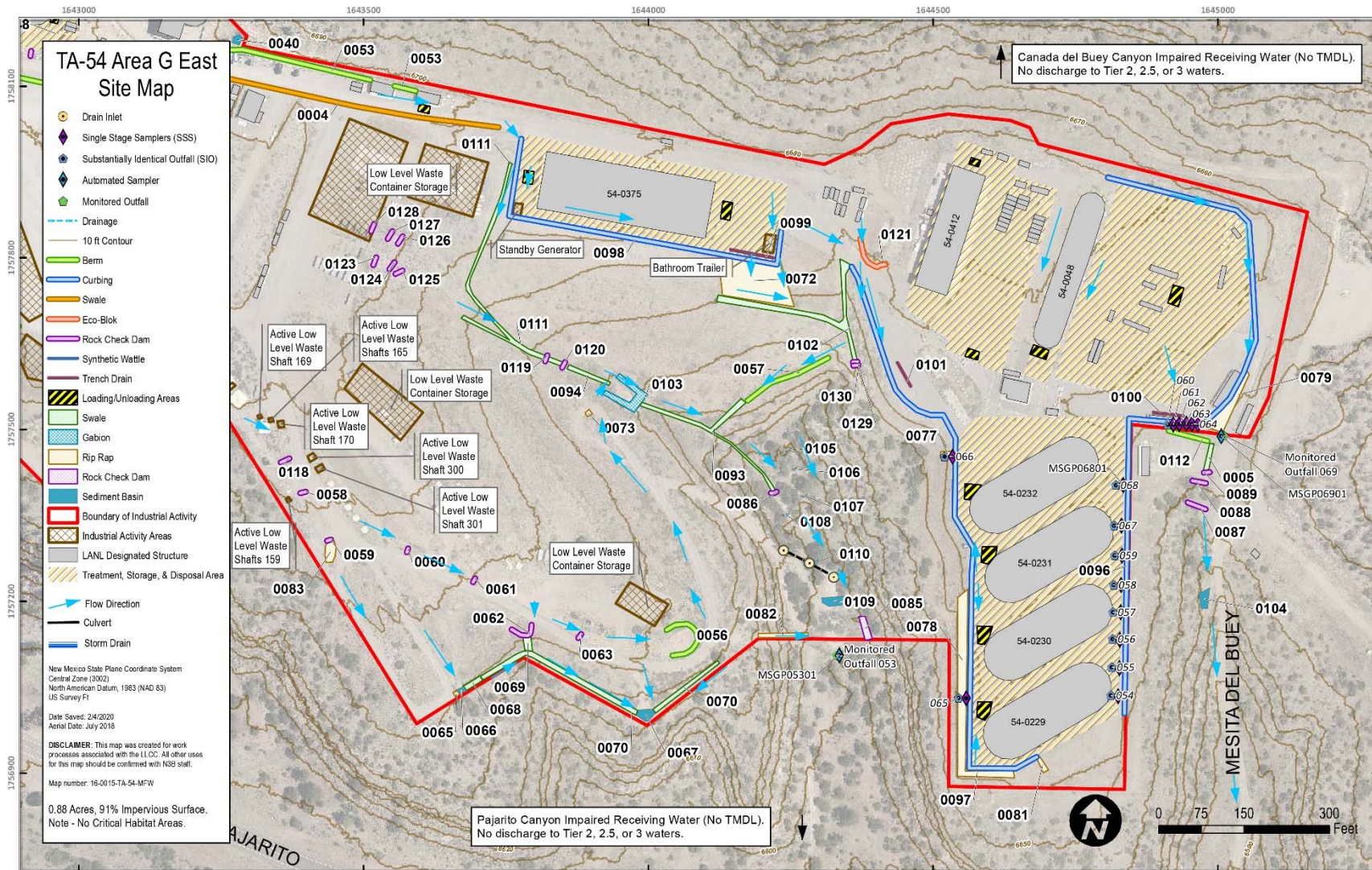


TA-54 Areas G and L  
Storm Water Pollution Prevention Plan



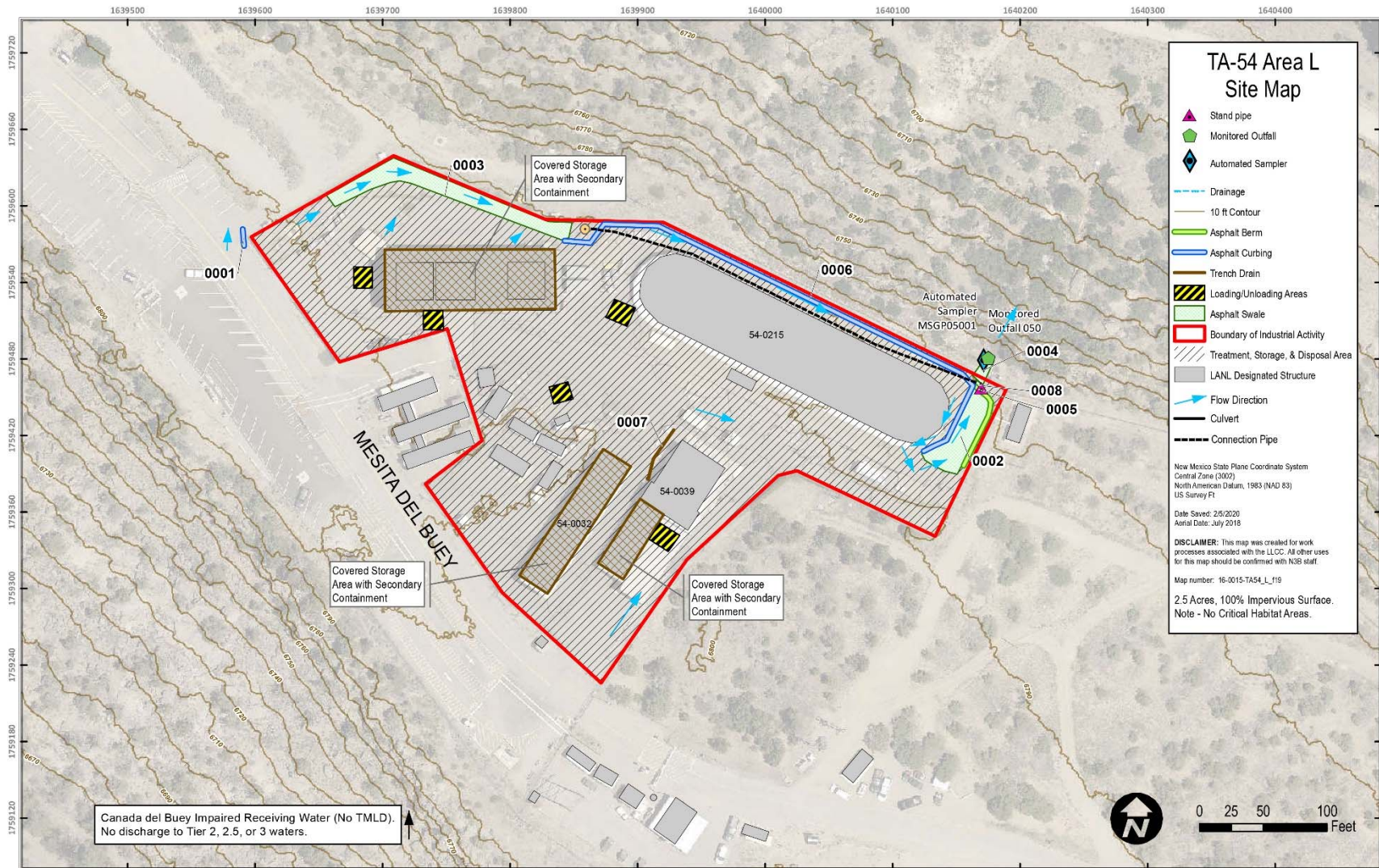


TA-54 Areas G and L  
Storm Water Pollution Prevention Plan





TA-54 Areas G and L  
Storm Water Pollution Prevention Plan





**Attachment C. Relevant Procedures**

Number	Title
N3B EPC-CP-QP-064	MSGP Storm Water Visual Inspections
N3B-AOP-TRU-3003	Material Release or Spill
RP-1-DP-16	Responding to Radioactive Material Spills
N3B-SOP-ER05016	Multi-Sector General Permit Storm Water Corrective Actions
N3B-SOP-ER-4004	Installing, Setting Up, and Operating Automated Surface Water Samplers
N3B-SOP-ER-5004	Installation and Maintenance of Remote Telemetry Units for Surface Water Projects



**Attachment D. Routine Facility Inspection Work Statement (Blank) and Reports**





**Maintenance Details**

**Requested:** 12/2/2019 12:01:23 AM

**Target:** 3/31/2020 (14) hrs

MSGP TA 54

**Phone:**

**Priority/Type:** / Preventive

RG249.5

**Email:**

TA-54 Area G

**Procedure:** MSGP Stormwater Industrial  
Routine Facility Inspection  
(N3B-SOP-ER-5016-1)

**Last PM:** 12/11/2019

**Project:** 2019 Routine Facility  
Inspections (P-MSGP-5921)

**Reason:** MSGP Stormwater Industrial Routine Facility Inspection

**Tasks**

#	Description	Meas.	No	Yes
<b>WEATHER INFORMATION</b>				
20	Describe the weather at time of inspection in the task comment. Document the temperature (F°) in the "Reading" field of this line.		<input type="checkbox"/>	<input type="checkbox"/>
<b>Within the Facility Boundary</b>				
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "No", describe:		<input type="checkbox"/>	<input type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe:		<input type="checkbox"/>	<input type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe:		<input type="checkbox"/>	<input type="checkbox"/>
<b>Outfall Inspection needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment</b>				
90	<b>Monitored Outfall [051]</b> Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
100	<b>Monitored Outfall [051]</b> Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
110	<b>Monitored Outfall [051]</b> Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
120	<b>Monitored Outfall [053]</b> Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
130	<b>Monitored Outfall [053]</b> Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
140	<b>Monitored Outfall [053]</b> Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
150	<b>Monitored Outfall [069]</b> Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
160	<b>Monitored Outfall [069]</b> Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
170	<b>Monitored Outfall [069]</b> Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
180	<b>Monitored Outfall [072]</b> Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
190	<b>Monitored Outfall [072]</b> Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
200	<b>Monitored Outfall [072]</b> Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
210	<b>Substantially Identical Outfall [052]</b> Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
220	<b>Substantially Identical Outfall [052]</b> Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
230	<b>Substantially Identical Outfall [052]</b> Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
240	<b>Substantially Identical Outfall [054]</b> Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
250	<b>Substantially Identical Outfall [054]</b> Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>



620	<b>Substantially Identical Outfall [066]</b> Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
630	<b>Substantially Identical Outfall [067]</b> Free of evidence of erosion? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
640	<b>Substantially Identical Outfall [067]</b> Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
650	<b>Substantially Identical Outfall [067]</b> Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
660	<b>Substantially Identical Outfall [068]</b> Free of evidence of erosion? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
670	<b>Substantially Identical Outfall [068]</b> Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
680	<b>Substantially Identical Outfall [068]</b> Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
690	<b>Substantially Identical Outfall [070]</b> Free of evidence of erosion? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
700	<b>Substantially Identical Outfall [070]</b> Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
710	<b>Substantially Identical Outfall [070]</b> Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
720	<b>Substantially Identical Outfall [071]</b> Free of evidence of erosion? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
730	<b>Substantially Identical Outfall [071]</b> Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
740	<b>Substantially Identical Outfall [071]</b> Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>

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

760	<b>90 Degree Standpipe [5400110010032]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
770	<b>90 Degree Standpipe [5400110010033]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
780	<b>Asphalt Berm [5400103040048]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
790	<b>Concrete Blanket [5400101080034]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
800	<b>Concrete/Asphalt Channel/Swale [5400104020049]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
810	<b>Concrete/Asphalt Channel/Swale [5400104020102]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
820	<b>Concrete/Asphalt Channel/Swale [5400104020111]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
830	<b>Curbing [5400103090096]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
840	<b>Curbing [5400103090097]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
850	<b>Curbing [5400103090098]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
860	<b>Earthen Berm [5400103010051]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
870	<b>Earthen Berm [5400103010052]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
880	<b>Earthen Berm [5400103010053]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
890	<b>Earthen Berm [5400103010054]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
900	<b>Earthen Berm [5400103010055]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
910	<b>Earthen Berm [5400103010056]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
920	<b>Earthen Berm [5400103010057]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
930	<b>Earthen Berm [5400103010064]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>









condition and need for maintenance, repair, or replacement.

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

1870	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1880	Produce/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1890	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1900	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1910	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1920	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1930	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1940	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1950	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1960	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1970	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1980	Non-stormwater/illicit connections: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
1990	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
2000	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
2010	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>

**Non-Compliance**

2030	Free of incidents of observed non-compliance not associated with any of the above? If "No" describe. (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
------	---	--------------------------	--------------------------

**Additional Controls**

2050	Are permit requirements satisfied with existing control measure(s)? If "No: describe additional control measure(s) needed. (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
------	---	--------------------------	--------------------------

**Labor Report**

**Completed:** \_\_\_\_\_

**Report:** \_\_\_\_\_

**Certification Statement of Authorization**

*"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 managed 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 or imprisonment for knowing violations."*

Name of Delegated Official of Permittees: Elizabeth Lowes Z#: \_\_\_\_\_

Date: Date on file Delegated Official Signature: Signature on File



**Maintenance Details**

**Requested:** 12/2/2019 12:02:44 AM

**Target:** 3/31/2020 (14) hrs

 MSGP TA 54

**Phone:**

**Priority/Type:** / Preventive

 RG249.5

**Email:**

 TA-54 Area L

**Procedure:** MSGP Stormwater Industrial  
Routine Facility Inspection  
(N3B-SOP-ER-5016-1)

**Last PM:** 12/11/2019

**Project:** 2019 Routine Facility  
Inspections (P-MSGP-5921)

**Reason:** MSGP Stormwater Industrial Routine Facility Inspection

**Tasks**

#	Description	Meas.	No	Yes
<b>WEATHER INFORMATION</b>				
20	Describe the weather at time of inspection in the task comment. Document the temperature (F°) in the "Reading" field of this line.		<input type="checkbox"/>	<input type="checkbox"/>
<b>Within the Facility Boundary</b>				
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "No", describe:		<input type="checkbox"/>	<input type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe:		<input type="checkbox"/>	<input type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe:		<input type="checkbox"/>	<input type="checkbox"/>
<b>Outfall Inspection needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)</b>				
90	<b>Monitored Outfall [050]</b> Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
100	<b>Monitored Outfall [050]</b> Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
110	<b>Monitored Outfall [050]</b> Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
<b>Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).</b>				
130	<b>90 Degree Standpipe [5400210010008]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
140	<b>Asphalt Berm [5400203040005]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
150	<b>Asphalt Berm [5400203040006]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
160	<b>Concrete/Asphalt Channel/Swale [5400204020002]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
170	<b>Concrete/Asphalt Channel/Swale [5400204020003]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
180	<b>Concrete/Asphalt Channel/Swale [5400204020004]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
190	<b>Curbing [5400203090001]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
200	<b>Trench Drain [5400209040007]</b> Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>

**Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).**

220	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
230	Produce/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
330	Non-stormwater/illicit connections: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>
<b>Non-Compliance</b>			
380	Free of incidents of observed non-compliance not associated with any of the above? If "No" describe. (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
<b>Additional Controls</b>			
400	Are permit requirements satisfied with existing control measure(s)? If "No: describe additional control measure(s) needed. (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>

### Labor Report

**Completed:** \_\_\_\_\_

**Report:** \_\_\_\_\_

**Certification Statement of Authorization**

*"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 managed 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 or imprisonment for knowing violations."*

Name of Delegated Official of Permittees: Elizabeth Lowes Z#: \_\_\_\_\_

Date: Date on file Delegated Official Signature: Signature on File

**Attachment E. Quarterly Visual Inspection Work Statement (Blank) and Reports**



# N3B MSGP Stormwater Visual Assessment Form

For Use with N3B-PXXX, R0

Instruction for filling out this form: This form is to be filled out in accordance with N3B-PXXX - Procedure Title . All fields are required to be completed. Identify probable sources of any observed stormwater contamination. Include any additional comments, descriptions, and any corrective actions necessary. Once complete, please send to the R&SI-Compliance Director for evaluation and processing. If there are any questions regarding this form, please contact R&SI-Compliance Director.

Outfall ID \_\_\_\_\_

Field Inspector Name (printed) \_\_\_\_\_

Field Inspector Signature \_\_\_\_\_

Field Inspector N3B ID/Z number \_\_\_\_\_

Other staff present \_\_\_\_\_

### Sample Information

Monitoring Period \_\_\_\_\_

Discharge Began	Date	Time	Duration
-----------------	------	------	----------

Nature of Discharge	Rain	Snow	Hail	Other
---------------------	------	------	------	-------

Description	Event Total Inches
-------------	--------------------

Sample Collection	Date	Time	
-------------------	------	------	--

Collected first 30 minutes of discharge?	Yes	No	
--	-----	----	--

If No, describe \_\_\_\_\_

Date Visually Assessed	Date	Time	
------------------------	------	------	--

Description \_\_\_\_\_

### Sample Assessment

Color	Yes	No	
-------	-----	----	--

Description \_\_\_\_\_

Odor	Yes	No	
------	-----	----	--

Description \_\_\_\_\_

Clarity	Yes	No	
---------	-----	----	--

Description \_\_\_\_\_

Floating Solids	Yes	No	
-----------------	-----	----	--

Description \_\_\_\_\_

Settled Solids	Yes	No	
----------------	-----	----	--

Description \_\_\_\_\_

Suspended Solids	Yes	No	
------------------	-----	----	--

Description \_\_\_\_\_

Foam* (gently shake)	Yes	No	
----------------------	-----	----	--

Description \_\_\_\_\_

Oil Sheen*	Yes	No	
------------	-----	----	--

Description \_\_\_\_\_

Other Indicators (description) \_\_\_\_\_

Notes \_\_\_\_\_

\_\_\_\_\_

\* If any foam or oil sheen is observed, notify supervisor and R & SI Regulatory Compliance Director IMMEDIATELY

# N3B MSGP Stormwater Visual Assessment Form

For Use with N3B-PXXX, R0

Certification and Signature	
<p>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.</p>	
Printed Name	
Signature & Date	

*R&SI Use Only*

DB Input Date	Notification
DB Input Initials	Notification Date

**Attachment F. SWPPP MODIFICATIONS**

Name and Number	Date of Revision	History of Revision



**Attachment G. Reference Documents**





Date: JUL 25 2019

N3B-19-0218

Charles Maguire  
U.S. Environmental Protection Agency  
Region 6 Water Division Director  
1201 Elm Street, Suite 500  
Dallas, TX 75270-2102

**Subject: Delegation of Authorized Representative for the Clean Water Act and National Pollutant Discharge Elimination System Individual Permit**

Dear Mr. Maguire:

The purpose of this letter is to inform the U.S. Environmental Protection Agency (EPA) Region 6 of the signatory authority for operations performed at Los Alamos National Laboratory (LANL) by Newport News Nuclear BWXT-Los Alamos, LLC (N3B). This letter delegates authority of the N3B authorized representatives for certifying and signing permit applications (e.g., notices of intent and notices of termination), permit modifications, registrations, certifications, reports, and other documents required under the Clean Water Act and the associated LANL National Pollutant Discharge Elimination System (NPDES) Individual Permit (Permit No. NM0030759).

I, Glenn Morgan, the President of N3B, hereby delegate authority to the following authorized representatives to execute on behalf of N3B permit applications, permit modifications, authorizations, certifications, reports, discharge monitoring reports, or other documents required by EPA:

- Frazer Lockhart, Regulatory and Stakeholder Interface Program Manager
- Elizabeth Lowes, Environment, Safety, and Health Program Manager
- Erich Evered, Environmental Remediation (ER) Program Manager
- Michael Erickson, Resource Conservation and Recovery Act Remediation Program Director

The following positions are hereby designated as authorized representatives to sign reports, plans, inspection certifications, and notices of changed conditions as required by EPA:

NPDES Storm Water Construction General Permit

- Regulatory Compliance Director
- Regulatory Compliance Environmental Professional
- Cognizant Project Manager, Project Leader, Project Engineer, or Operations Manager for the regulated construction activity
- ER Environmental Professional

Multi-Sector General Permit (Permit No. NMR050011 and NMR050012)

- ER Individual Permit Storm Water Corrective Actions Manager
- ER Individual Permit Storm Water Field Lead
- Regulatory Compliance Director
- Regulatory Compliance Environmental Professional
- Responsible Facility Operations Director or Operations Manager for the regulated facility or activity

LANL NPDES Individual Permit (Permit No. NM0030759)

- ER Water Program Director
- ER Monitoring and Compliance Program Manager
- ER Individual Permit Storm Water Corrective Actions Manager

If you have any questions, please contact Christian Maupin at (505) 695-4281 (christian.maupin@em-la.doe.gov).

Sincerely,

  
 Glenn Morgan  
 President

cc: (date-stamped letter emailed)

- Arturo Duran, EM-LA
- Douglas Hintze, EM-LA
- David Rhodes, EM-LA
- Cheryl Rodriguez, EM-LA
- Michael Alexander, N3B
- Donald Carlson, N3B
- Emily Day, N3B
- Michael Erickson, N3B
- Erich Evered, N3B
- Debby Holgerson, N3B
- Joseph Legare, N3B
- Frazer Lockhart, N3B
- Elizabeth Lowes, N3B
- Christian Maupin, N3B
- Jeremiah McLaughlin, N3B
- Glenn Morgan, N3B
- William O'Neill, N3B
- Bruce Robinson, N3B
- Troy Thompson, N3B
- Steve Veenis, N3B
- Jennifer von Rohr, N3B
- emla.docs@em.doe.gov
- N3B Records
- PRS Website

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Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$2.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.00
<b>Total Postage and Fees</b>	<b>\$7.30</b>

Sent To: Charles Maguire, Water Div. Dir.  
 U.S. Environmental Protection Agency  
 1201 Elm Street, Suite 500  
 Dallas, TX 75270-2102

Postmark Here: LOS ALAMOS, NM 0544  
 JUL 26 2019 07/26/2019

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



## Permit Information

Master Permit Number: NMR050000NPDES ID: NMR050012

## Eligibility Information

State/territory where your facility is located: NMIs your facility located on Federally Recognized Indian Country Lands? NoAre you a "Federal Operator" as defined in Appendix A ([https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015\\_appendixa.pdf](https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015_appendixa.pdf))? YesWhich type of form would you like to submit? Notice of Intent (NOI)

By indicating "Yes", 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.

YesAre you a new discharger or a new source as defined in Appendix A ([https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015\\_appendixa.pdf](https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015_appendixa.pdf))? Yes

➔ Are you discharging to any waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resource water)? (See Appendix L ([https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015\\_appendixl.pdf](https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015_appendixl.pdf)))

NoDoes your facility discharge to a federal CERCLA site listed in Appendix P ([https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015\\_appendixp.pdf](https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015_appendixp.pdf))? No

## Operator Information

## Operator Information

Operator Name: Newport News Nuclear BWXT Los Alamos

## Operator Mailing Address

Address Line 1: 1200 Trinity Drive, Suite 150

Address Line 2:

City: Los AlamosZIP/Postal Code: 87544State: NMCounty or Similar Division: LOS ALAMOS

## Operator Point of Contact Information

First Name Middle Initial Last Name: Glenn Morgan

Organization:

Title: N3B Program ManagerPhone: 505-309-1374

Ext.:

Email: glenn.morgan@em-la.doe.gov

## NOI Preparer Information

First Name Middle Initial Last Name: Jennifer von RohrOrganization: Newport News Nuclear, BWXT Los AlamosPhone: 505-257-7424

Ext.:

Facility Information

### Facility Information

Facility Name: TA54 AREAS G AND L

### Facility Address

Address Line 1: 1200 Trinity Drive, Suite 150

Address Line 2:

City: LOS ALAMOS

ZIP/Postal Code: 87544

State: NM

County or Similar Division: LOS ALAMOS

### Latitude/Longitude for the Facility

Latitude/Longitude: 35.8348°N, 106.2517°W

Latitude/Longitude Data Source: google earth

Horizontal Reference Datum: WGS 84

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

Estimated area of industrial activity at your facility exposed to stormwater (rounded to the nearest quarter acre): 74

### Sector-Specific Information

Primary Sector: K

Primary Subsector: K1

Primary Activity Code: HZ

Is your facility presently inactive and unstaffed? No

Discharge Information

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

### Federal Effluent Limitation Guidelines

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

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Applicability
Part 445, Subpart A & B	Runoff from hazardous waste and non-hazardous waste landfills	K	02/28/2000	Does your facility have any discharges subject to this effluent limitation guideline? <u>No</u>

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

### Benchmark Monitoring

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

➔ Does your facility discharge into any saltwater receiving waters? No

➔ What is the hardness of your receiving water(s)? 30.2

## Other Discharge Information

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

## Receiving Waters Information

List all of the stormwater outfalls from your facility.

**Outfall 053: Outfalls substantially identical: 065, 066**

## Applicable Sectors

Select the Sectors/Subsector(s) that apply to this outfall.

	Sector	Subsector
<input checked="" type="checkbox"/>	K - HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES	K1 - Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under interim status or a permit under subtitle C of RCRA

Latitude/Longitude: 35.8292°N, 106.2368°W

This outfall is *Substantially Identical* to an existing outfall.

## Receiving Water

GNIS Name:

n/a

Waterbody Name:

Pajarito Canyon

Listed Water ID:

n/a

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

No

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]
RADIATION	Alpha, total
METALS (OTHER THAN MERCURY)	Aluminum, total [as Al]
OTHER CAUSE	Cyanide, total [as CN]
OTHER CAUSE	Cyanide, total [as CN]

Has a TMDL been completed for this receiving waterbody? No

## Monitoring Requirement Changes

Benchmark monitoring requirements have changed for this outfall.

Impaired Water monitoring requirements have changed for this outfall.

Effluent Limitations monitoring requirements have changed for this outfall.

**Outfall 072: Substantially identical to 070, 071**

## Applicable Sectors

Select the Sectors/Subsector(s) that apply to this outfall.

	Sector	Subsector
<input checked="" type="checkbox"/>	K - HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES	K1 - Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under interim status or a permit under subtitle C of RCRA

Latitude/Longitude: 35.8329°N, 106.2394°W

This outfall is *Substantially Identical* to an existing outfall.

### Receiving Water

GNIS Name:  
n/a

Waterbody Name:  
Canada del Buey Canyon

Listed Water ID:  
n/a

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

No

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]
RADIATION	Alpha, total

Has a TMDL been completed for this receiving waterbody? No

### Monitoring Requirement Changes

Benchmark monitoring requirements have changed for this outfall.

Impaired Water monitoring requirements have changed for this outfall.

Effluent Limitations monitoring requirements have changed for this outfall.

### Outfall 050:

### Applicable Sectors

Select the Sectors/Subsector(s) that apply to this outfall.

	Sector	Subsector
<input checked="" type="checkbox"/>	K - HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES	K1 - Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under interim status or a permit under subtitle C of RCRA

Latitude/Longitude: 35.8357°N, 106.2508°W

This outfall is *Substantially Identical* to an existing outfall.

### Receiving Water

GNIS Name:  
n/a

Waterbody Name:  
Canada del Buey Canyon

Listed Water ID:  
n/a

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

No

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]
RADIATION	Alpha, total

Has a TMDL been completed for this receiving waterbody? No

### Monitoring Requirement Changes

Benchmark monitoring requirements have changed for this outfall.

Impaired Water monitoring requirements have changed for this outfall.

Effluent Limitations monitoring requirements have changed for this outfall.

**Outfall 069: Outfalls substantially identical: 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 067, 068**

### Applicable Sectors

Select the Sectors/Subsector(s) that apply to this outfall.

	Sector	Subsector
<input checked="" type="checkbox"/>	K - HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES	K1 - Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under interim status or a permit under subtitle C of RCRA

Latitude/Longitude: 35.8303°N, 106.2345°W

This outfall is *Substantially Identical* to an existing outfall.

### Receiving Water

GNIS Name:  
n/a

Waterbody Name:  
Pajarito Canyon

Listed Water ID:  
n/a

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

No

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]
RADIATION	Alpha, total
METALS (OTHER THAN MERCURY)	Aluminum, total [as Al]
OTHER CAUSE	Cyanide, total [as CN]

Has a TMDL been completed for this receiving waterbody? No

### Monitoring Requirement Changes

Benchmark monitoring requirements have changed for this outfall.

Impaired Water monitoring requirements have changed for this outfall.

Effluent Limitations monitoring requirements have changed for this outfall.

**Outfall 051: Outfall substantially identical: 052**

### Applicable Sectors

Select the Sectors/Subsector(s) that apply to this outfall.

	Sector	Subsector
<input checked="" type="checkbox"/>	K - HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES	K1 - Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under interim status or a permit under subtitle C of RCRA

Latitude/Longitude: 35.8301°N, 106.2427°W

This outfall is *Substantially Identical* to an existing outfall.

### Receiving Water

GNIS Name:  
n/a

Waterbody Name:  
Pajarito Canyon

Listed Water ID:  
n/a

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

No

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]
RADIATION	Alpha, total
METALS (OTHER THAN MERCURY)	Aluminum, total [as Al]
OTHER CAUSE	Cyanide, total [as CN]

Has a TMDL been completed for this receiving waterbody? No

## Monitoring Requirement Changes

- Benchmark monitoring requirements have changed for this outfall.
- Impaired Water monitoring requirements have changed for this outfall.
- Effluent Limitations monitoring requirements have changed for this outfall.

### SWPPP Information

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

#### SWPPP Contact Information:

First Name Middle Initial Last Name: Christian , Maupin

#### Organization:

Professional Title: Project Environmental Engineer

Phone: 505-695-4281 Ext.:

Email: christian.maupin@em-la.doe.gov

#### 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 ([https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015\\_appendixa.pdf](https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015_appendixa.pdf))) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.

Option 1: Maintain a Current Copy of your SWPPP on an Internet Page (Universal Resource Locator or URL).

SWPPP web address URL: <https://ext.em-la.doe.gov/EPRR/>

Option 2: Provide the following information from your SWPPP:

### Endangered Species Protection

Using the instructions in Appendix E ([https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015\\_appendix-2.pdf](https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015_appendix-2.pdf)) of the MSGP, under which endangered species criterion listed in Part 1.1.4.5 are you eligible for coverage under this permit?

Criterion D - A separate ESA section 7 consultation has been completed

Provide a brief summary of the basis for the criterion selected in Appendix E ([https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015\\_appendix-2.pdf](https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015_appendix-2.pdf)):

An ESA evaluation prepared by Los Alamos National Laboratory determined stormwater discharges, allowable non-stormwater discharges and stormwater discharge related activities from the MSGP locations at TA-54, Areas G and L are not likely to adversely affect any species that is federally listed as endangered or threatened under Criterion D, Section iii and will not result in the adverse modification or destruction of habitat that is federally-designated as "critical habitat" under the ESA. This assessment received concurrence from the U.S. Fish and Wildlife Service in 1999. All changes to the Habitat Management Plan are assessed in a new consultation with the USFWS before implementation.

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.

Copies of any letters or other communications with the U.S. Fish and Wildlife Service or National Marine Fisheries Service:

Name	Uploaded Date	Size
 1999 HMP Concurrence Letter USFWS to DOE.pdf (attachment/389828)	04/03/2019	276.55 KB

Historic Preservation

If your facility is not located on Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe? No

Using the instructions in Appendix F ([https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015\\_appendixf.pdf](https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015_appendixf.pdf)) of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.6 are you eligible for coverage under this permit?

Criterion A - No subsurface stormwater controls

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

**Certified By:** Elizabeth Lowes

**Certifier Title:** ES&H Program Manager

**Certifier Email:** elizabeth.lowes@em-la.doe.gov

**Certified On:** 01/16/2020 6:26 PM ET