



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

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January 2021

EM2021-0015

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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), Technical Area 54 (TA-54), Areas G and L

Street: 1200 Trinity Drive, Suite 150

City: Los Alamos State: NM ZIP Code: 87544

County or Similar Subdivision: Los Alamos

National Pollutant Discharge Elimination System (NPDES) ID: NMR050012

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)

Discharge Information:	
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>The direction of storm water flow from the facility is primarily to the south into Pajarito Canyon with a lesser discharge to the north into Cañada del Buey. TA-54 Area G discharges to two separate impaired receiving water segments. Outfall 072 discharges to Assessment NM-128.A_00, Cañada del Buey (identified by New Mexico Environment Department [NMED] as impaired for polychlorinated biphenyls [PCBs] and adjusted gross alpha). Outfall 051, Outfall 053, and Outfall 069 all discharge to Assessment NM-128.A_08, Pajarito Canyon (Lower LANL boundary to Twomile Canyon); this receiving water is recognized by NMED as impaired for PCBs, total recoverable aluminum, dissolved copper, adjusted gross alpha, and total recoverable cyanide. Area L (Outfall 050) discharges to Assessment NM-128.A_00 (Cañada del Buey).</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 (Lower LANL boundary to Twomile Canyon) and Cañada del Buey (within LANL).</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>	
Which pollutant(s) identified may be present in industrial storm water discharges from this facility?	
Based on historic sampling results and studies of naturally occurring background levels, adjusted gross alpha, dissolved copper, and total recoverable aluminum may be present in storm water samples collected from this facility.	
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 (N3B)
Address: 1200 Trinity Drive, Suite 150
Los Alamos, NM 87544
Phone: (505) 661-5918

Facility Owner(s):

Name: N3B Contact-Handled Transuranic (CH-TRU) Program
TA-54 Operations Center
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Los Alamos, NM 87544
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Secondary POC: John Guy or alternate, Shift Operations
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Organization: N3B CH-TRU Waste Operations
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Email: john.guy@em-la.doe.gov

Site SWPPP:

POC: Emily Day, Director
Organization: N3B Regulatory Compliance
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Facility SWPPP:

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Manager
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1.3 Storm Water Pollution Prevention Plan/Team Members

N3B controlled Los Alamos National Laboratory (LANL) facilities located at Technical Area 54 (TA-54) Areas G and L operate under the National Pollutant Discharge Elimination System (NPDES) 2015 Multi-Sector General Permit (MSGP) for Storm Water Discharges Associated with Industrial Activity, which governs storm water discharge from industrial activities.

Under the MSGP, the U.S. Environmental Protection Agency (EPA) requires implementation of a site-specific Storm Water Pollution Prevention Plan (SWPPP). This SWPPP has been 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.

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. A notice of intent to operate this facility under the 2015 MSGP was submitted to EPA Region 6 by N3B in April 2018; NPDES coverage for this facility was authorized by EPA on May 1, 2018. The 2015 MSGP expired on June 3, 2020, and has been administratively continued, pending the issuance of a new general permit.

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 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 processes and procedures in place to comply with the terms and conditions of the 2015 MSGP. BMPs include maintenance activities, formalized work practice reviews, training, activity scheduling, stabilization, structural controls, and additional documentation. Collectively, the incorporation of BMPs into facility operations effectively reduces the potential for the introduction of contaminants into receiving water and supports facility eligibility under the 2015 MSGP.

This SWPPP is intended to be a living document with updates incorporated, as necessary, to reflect facility or operational changes with the potential to impact storm water discharge from the facility. The 2015 MSGP requires prompt revision of this SWPPP to reflect such changes.

This SWPPP applies to storm water discharges associated with industrial activities from hazardous waste treatment, storage, and disposal facility operations, including ancillary operations conducted at TA-54 Areas G and L by N3B personnel and subcontractors. TA-54 Areas G and L are 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

N3B 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; (2) maintenance of control measures; and (3) implementation of corrective actions as required by the 2015 MSGP. In addition, members receive SWPPP training as part of the 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 (ER SWP), 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 storm water samples, conducting visual assessments of storm water runoff for indications of contamination, conducting routine facility inspections, identifying and documenting corrective actions, reporting in accordance with 2015 MSGP requirements, and implementing and modifying this SWPPP.

Table 1.3-1
Storm Water PPT Roles and Responsibilities

Roles	Responsibilities
Regulatory Compliance Director	<ul style="list-style-type: none"> • Oversees implementation of the SWPPP and associated BMPs • Oversees the assigned duties of PPT members • Ensures corrective actions are remedied/corrected and properly documented • Ensures routine facility inspections are conducted in accordance with section 4.6, Routine Facility Inspections and Quarterly Visual Assessments, of this SWPPP • Ensures training required by the 2015 MSGP is available and the appropriate N3B personnel receive the training specified in section 4.5, Employee Training, of this SWPPP
ER SWP Lead	<ul style="list-style-type: none"> • Provides SWPPP technical guidance • Provides BMP guidance (during selection and installation) • Aids in performing and documenting inspections and assessments • Performs site compliance evaluations, including routine facility inspections described in section 4.6.1, Routine Facility Inspections, of this SWPPP
CH-TRU Shift Operations Manager	<ul style="list-style-type: none"> • Responsible for the implementation of good housekeeping practices • Oversees BMP maintenance • Ensures corrective actions are scheduled/implemented in a timely manner • Ensures operators receive annual SWPPP/2015 MSGP required training • 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
CH-TRU Operations Staff	<ul style="list-style-type: none"> • Assists with cleanup as necessary (i.e., spill of released pollutants) • Directs the appropriate waste management of all resultant cleanup materials • Performs quarterly visual assessments described in section 4.6.2, Quarterly Visual Assessment of Storm Water Discharges, of this SWPPP • Assists the ER SWP in the performance of routine facility inspections
Regulatory Compliance Lead	<ul style="list-style-type: none"> • Develops SWPPP training • Provides SWPPP technical guidance • Conducts recordkeeping and regulatory reporting • Provides oversight of the SWPPP (e.g., revisions, etc.) • 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
Maintenance Connection Storm Water Database Administrator	<ul style="list-style-type: none"> • Maintains and updates the Maintenance Connection (MainConn) database based on input from MSGP Storm Water Team personnel • Responsible for the generation of routine facility inspection work statements • Generates and updates MSGP corrective action status reports

1.4 Site Description

All facilities at TA-54 Areas G and L are operated by the CH-TRU Program. The standard industrial classification (SIC) code applicable to TA-54 Areas G and L operations is 562211–Hazardous Waste Treatment and Disposal, which is regulated under Sector K, sub-sector K-1, of the 2015 MSGP. 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 high tension-support domes, chemical sheds, and buildings are used to store mixed low-level waste (MLLW), LLW, TRU waste, and mixed TRU waste. No liquids are accepted for disposal in Area G.

Subsurface disposal pits and shafts used for waste disposal are located throughout Area G. These facilities are situated a minimum of 50 ft from the mesa's edge and as far as practicable from drainage areas that flow to adjacent receiving waters in Cañada del Buey and Pajarito Canyon.

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 6:1 sloped ramp at one end and walls that are stepped or sloped at an approximate 1:2 slope. Multiple pits throughout Area G may be active at any time. Loose materials placed in the pits are immediately covered with crushed tuff to prevent dispersal by the wind. Inactive pits are maintained in a covered condition. Shafts are used to store certain solid radioactive wastes, including retrievable, high-activity TRU waste, that require separation to limit exposure. 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. Shafts are kept 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, 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 containers of chemical waste, hazardous waste, LLW, MLLW, TRU waste, and mixed TRU waste generated from LANL facilities. These waste containers are stored in buildings, sheds, high-tension support domes set on asphalt pads, and outside on asphalt pads. Wastes stored outside in containers on asphalt pads are held in one of three configurations:

- Transportainers, which are metal boxes that meet stringent U.S. Department of Transportation requirements for waste transportation: As designed, these containers are elevated from the ground surface during storage, preventing contact with storm water run-on or runoff.
- Large (3 ft, 4 ft, or 6 ft in diameter), airtight experimental metal vessels: The interiors of these vessels contain radioactive contamination; however, they are designed to be airtight 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): These waste containers are stored on pallets to prevent contact with storm water run-on or runoff.

In support of waste management, a variety of ancillary operations are routinely conducted throughout Area G, including equipment, material, and vehicle storage; vegetation and pest management; construction projects; vehicle refueling; building and facility maintenance; etc. These operations, as each

relates to storm water management and potential for impact to discharges from the site, are discussed throughout this document.

Overall, because of the use of storm water controls and BMPs in conjunction with Area G operations, the potential for storm water contamination from facilities at TA-54 Area G is low. Based on historic operations and incidental spill records, operations with the highest potential for impact to receiving water are loading/off-loading activities (related to transportation to or from the buildings, domes, metal boxes, or asphalt pads), vehicle fueling, and vehicle use. Extra precautions are routinely implemented to prevent impact from these operations.

There are 22 outfalls (18 of which are substantially identical – see table in section 4.7.2) in 4 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. Both receiving waters are tributaries to the Rio Grande.

Area L

Area L, which is approximately 3 acres in size, is used for intermediate and long-term storage of solid and liquid chemical wastes, hazardous wastes, and MLLW. Sector K industrial activities include sampling, packaging, transporting, and storing of waste. Ancillary, support activities conducted within Area L include material storage, building and facility maintenance, and pest and vegetation control.

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 PCBs, waste gas cylinders, and other waste. The waste is primarily stored in a drum or other closed container, placed on a pallet, and housed within a structure. Alternatively, closed drums or containers are stored on pallets under some other form of cover.

Impervious asphalt ground surface-constructed berms and storm drains convey storm water runoff from Area L to a single outfall where storm water discharge is sampled (see table in section 4.7.2 for outfall information). 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 industrial activities occur at Area G, approximately 28 acres (40%) consists of impervious surfaces in the form of structures, rooftops, covered metal bins, transportainers, and asphalt/concrete surfaces. The direction of storm water flow on the site is primarily to the south with discharge into Pajarito Canyon. A lesser amount of runoff from the site discharges to the north into Cañada del Buey. Both water segments ultimately flow to the Rio Grande.

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 generated at Area L to a single outfall that discharges to the north into Cañada del Buey, which flows ultimately to the Rio Grande.

2.0 Potential Pollutant Sources

Industrial activities associated with waste operations at TA-54 Areas G and L are primarily centered on the collection, storage, characterization, consolidation, handling, and shipment of numerous types of regulated wastes. Ancillary, support activities conducted at this facility include building and facility maintenance, equipment and vehicle maintenance, pest and vegetation control, construction and excavation, and vehicle refueling. 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 which are covered by the 2015 MSGP. This section includes solid waste management units (SWMUs) and areas of concern (AOCs) located within the described facilities.

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 and maintenance	Fuels, oils, hydraulic fluid, antifreeze, grease, battery acid
Scrap metal staging (south-central portion of site)	Metals
Vehicle refueling	Fuels
Construction and excavation	Fuels, oils, paints, VOCs
Pest and vegetation control (mechanical and chemical)	Pesticides, Herbicides, fuels
Building and facility maintenance	Oils, paints, cleaners, VOCs, SVOCs

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

Area G Solid Waste Management Units and Areas of Concern

There are several SWMUs and AOCs located within and adjacent to the limits of this industrial area, including the following:

- SWMU 54-013(b) – Vehicle monitoring/decontamination area (Material Disposal Area G [MDA G]).
- SWMU 54-014(d) – Retrievable TRU waste storage trenches.

- SWMU 54-015(k) – Previously consolidated under 54-013(b)-99. This SWMU is an inactive subsurface TRU waste disposal area located above Pit 29.
- SWMU 54-017 – Inactive disposal pit (MDA G).
- SWMU 54-018 – Inactive disposal pit (MDA G).
- SWMU 54-020 – Disposal shafts.
- AOC 54-012(a) – Former compactor facility TA-54-02.
- AOC 54-015(a) – Former drum storage for TRU/mixed TRU waste at TA-54-08. Currently, this area is an interim-status Resource Conservation and Recovery Act (RCRA) storage unit.
- AOC 54-015(b) – Former TRU and LLW storage near TA-54-11.
- AOCs 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. Pads 2 and 4 were repaved in 2003 to form one continuous asphalt surface (Pad 10).
- AOC 54-015(j) – Mixed waste storage dome TA-54-49. The dome, which is located above Pit 32, is used for staging, swiping, stacking, and storage of TRU and mixed TRU waste.
- AOC 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/AOCs listed above are inactive underground waste units (for 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 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 (e.g., HF, HCl, H ₂ SO ₄ , NaOH, etc.), commercial chemical products (e.g., bleach, Lysol, fire retardants, and other cleaning products), cyanides, and air and water reactive material
Outdoor waste storage in containers	Radionuclides, metals, VOCs, SVOCs, PCBs, fuels, antifreeze, corrosives (e.g., HF, HCl, H ₂ SO ₄ , NaOH, etc.), commercial chemical products (e.g., bleach, Lysol, fire retardants, 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
Pest and vegetation control (mechanical and chemical)	Pesticides, herbicides, fuels
Building and facility maintenance	Oils, paints, cleaners, VOCs, SVOCs

* VOCs = volatile organic compounds; SVOCs = semivolatile 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 the following:

- SWMU 54-001(a) – Former bermed hazardous waste storage area for pails and drums. The site is the current location of building TA-54-215.
- SWMU 54-006 – Inactive disposal units under Area L asphalt, including Pit A, surface impoundments B and D, and disposal shafts.
- SWMU 54-012(b) – Former location of drum compactor.
- AOC 54-001(b) – Container accumulation, packaging, and storage (TA-54-31).
- AOC 54-001(d) – PCB storage area in building TA-54-39.
- AOC 54-001(e) – Sheltered concrete storage pad partitioned into six cells (TA-54-32).
- AOC 54-002 – Compressed gas storage area (Dome 215).
- AOC 54-009 – Barium treatment tanks. All tanks have been removed and units have been closed in accordance with RCRA.
- AOC 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.

The majority of the SWMUs/AOCs listed above are inactive underground waste units (for 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 subject to the permit requirements contained therein, including monitoring and corrective actions.

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^a	Discharge Points^b
Entrance to TSDF structures and asphalt pads for loading/unloading/storage	Monitored outfall 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 the south end of Pad 10 – 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.
Various flammable cabinets and storage facilities	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 for 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.
Various flammable cabinets and storage facilities	Monitored outfall discharge point 050. This outfall is shown on the Area L site map provided in Attachment B.

^a TSDF = treatment, storage, and disposal facility.

^b SIO = substantially identical outfall.

Description of Past Spills/Leaks

While there is an awareness of minor leaks of vehicle and equipment fluids (primarily fuels and hydraulic fluids) from various equipment used in conjunction with normal operations at TA-54 Areas G and L, N3B is unaware of any spills that have discharged into a watercourse or canyon or have 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 N3B-SOP-RP-0005, “Radiological Emergency Response,” 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.

Unauthorized 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 at strategic locations throughout the facility in labeled, covered containers. Salt is used as needed to deice walkways, parking areas, etc.

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 of the facility. The locations of all samplers are identified on site maps provided in Attachment B.

Sampling at these locations has been ongoing since approximately 2015 (this sampling was performed by Los Alamos National Security, LLC [LANS], before 2018). Following assumption of control of the TA-54 facility in 2018, N3B initiated benchmark and impairment sampling for all applicable parameters at each monitored outfall. In accordance with Section 6.2.1.2 of the 2015 MSGP, beginning in monitoring year 2020, benchmark monitoring parameters were removed from outfalls where an average of four quarterly monitoring results were determined to be below the corresponding benchmark value for that parameter. Current monitoring requirements applicable to each monitored outfall are summarized in section 4.7.3 of this SWPPP.

During monitoring years 2019 and 2020, 22 benchmark-monitoring samples collected from the 5 monitored outfalls within TA-54 Areas G and L exceeded the benchmark value for total magnesium (64 µg/L). Following verification of each exceedance, N3B initiated corrective actions, including a site walkdown to identify potential contributing factors to each exceedance and opportunities for reducing total magnesium levels, such as modifications to existing storm water controls or changes to site operations. N3B additionally reviewed available documentation on total magnesium background values applicable to the TA-54 location, including “Background Metals Concentrations and Radioactivity in Storm Water on the Pajarito Plateau, Northern New Mexico” (LA-UR-13-22841, April 2013). This study documented urban background levels of total magnesium in the range of 359 µg/L to 7710 µg/L with a 95%/95% upper threshold limit of 6330 µg/L.

Of the 22 samples collected during monitoring years 2019 and 2020 and fiscal year 2019, 19 were within the urban background levels for total magnesium. Based on information presented here and monitoring results historically reported for this facility by the former operator (LANS) for the approximate period of 2008–2017, total magnesium levels reported for TA-54 have been largely attributable to background concentrations. Consequently, no facility modifications are proposed, as further pollutant reductions are not considered economically or technologically feasible.

Other parameters that have been detected in storm water samples collected from this facility by N3B include cadmium, aluminum, copper, lead, PCBs, and chemical oxygen demand. All monitoring results from this facility are available in the publically accessible Intellus database (<https://www.intellusnm.com/>).

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 and support 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 allow for identification and correction 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 2015 MSGP.

3.1.1 Minimize Exposure

N3B recognizes that preventing storm water contact with pollutants is generally more effective and less costly than removal of pollutants from storm water; and the 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:

- Where possible, vehicle, building, and facility maintenance activities are conducted indoors or under cover, when possible, or within a bermed area.
- Leaking vehicles/equipment are not stored on-site, rather, leaking vehicles and equipment are contained and promptly moved 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.
- Appropriate spill cleanup/response materials are readily available in close proximity to where potential pollutants are used and stored. Spill kits are routinely inspected.
- Wet cleanup 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 (i.e., Oil Sponge or equal), or dispersant/bioremediation liquid products (e.g., Micro-Blaze for stains) is performed.
- Procedures for material storage and handling (such as 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.

- Pesticide/herbicide use is coordinated with mechanical measures, such as cutting vegetation and using traps for pests, as an overall attempt to minimize the use of these chemical products. All pesticide/herbicide applications are conducted in accordance with manufacturer recommendations, and applications are minimized to prevent runoff of excess product.
- Vehicle fueling is conducted within designated areas equipped with appropriate spill control measures and in accordance with N3B-DOP-TRU-1304, R1, "Industrial Truck and Equipment Refueling and Recharging."

3.1.2 Good Housekeeping

All waste management and storage areas are to be kept clean and neat, with stored materials clearly identified. 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 to identify 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.
- Vehicles and heavy equipment are 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, biodegradable dry absorbents (i.e., Oil Sponge or equal), or dispersant/bioremediation liquid products (e.g., Micro-Blaze 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.
- Chemical use (such as pesticides/herbicides, cleaning products, etc.) is minimized to the extent possible. When these products are used, they are applied in accordance with manufacturer guidelines and in a manner that minimizes broad distribution or a liquid discharge from the facility.

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.

The storm water PPT conducts routine facility inspections and quarterly visual assessments to assess 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 responses will be in accordance with N3B-AOP-TRU-3003, "Material Release or Spill," and N3B-SOP-RP-0005, "Radiological Emergency Response," 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 the corrective action.

There are two types of spill reporting required at N3B, which are identified as (1) internal spill recordkeeping and (2) external agency notifications. Copies of internal spill reports will be kept by the N3B Regulatory Compliance storm water PPT member, and the responsible organization. External agency notifications (as determined by Regulatory Compliance) may consist of verbal or written notifications to the National Response Center, EPA Region VI, the NMED, 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 earthen berms and ditches in the site's border areas. Storm water controls used on-site may include the following:

- rock check dams
- silt fences

- S-Fences and ProWattles
- rock gabions
- vegetation
- turf-reinforcement mats (TRMs)
- concrete blankets
- gravel and rock rundowns
- sediment ponds
- earthen, asphalt, or cement berms, curbs, and swales
- energy dissipaters
- culverts
- site grading

3.1.6 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 sparse application of water. The application of water for dust suppression is accomplished with the use of a water truck equipped with a spray apparatus. Water is applied at a minimal rate to prevent a discharge from the facility and to minimize the potential for erosive effects.

3.2 Sector-Specific Non-Numeric Effluent Limits

TA-54 Areas G and L are subject to sector-specific requirements for industrial activity in “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 inactive 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 are maintained in the publically accessible Intellus database (<https://www.intellusnm.com/>). Reporting of monitoring results is provided electronically to U.S. EPA via the Central Data Exchange NetDMR website (<https://cdx.epa.gov/>).

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 regularly removed from the site for off-site disposal.

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 for the 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 (i.e., for 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 (MainConn). 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

- 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, using absorbent pads, biodegradable/bioremediation dry absorbents (i.e., Oil Sponge or equal), or dispersant/bioremediation liquid product (e.g., Micro-Blaze for stains on concrete and asphalt);
- immediate availability of appropriate spill cleanup/response materials; and
- responses to spills in accordance with N3B-AOP-TRU-3003, “Material Release or Spill,” and N3B-SOP-RP-0005, “Radiological Emergency Response,” 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 the components of this 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 at TA-54 Areas G and L:

- routine facility inspections (RFIs) and
- quarterly visual assessments (QVAs) of storm water discharges

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 visual assessments of storm water control measures used to comply with the 2015 MSGP and all facility areas where industrial materials or activities are exposed to storm water.

The PPT lead or designee 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 a copy of each work statement will be maintained in Attachment D of this plan.

If possible, one RFI per year will be conducted during a period when a storm water discharge is occurring.

RFIs 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 control measures needing maintenance or repairs
- any failed control measures that need replacement
- descriptions of any discharges occurring at the time of the inspection
- any previously 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 areas, and
- waste storage areas (e.g., solid waste dumpster).

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

Quarter	CY Routine Facility Inspections
1	January 1 – March 31
2	April 1 – June 30
3	July 1 – September 30
4	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 (e.g., because of 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 (e.g., because of adverse conditions or a no precipitation event); and
- include 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 modified quarter in accordance with N3B-EPC-CP-QP-064, “MSGP Storm Water Visual Inspections.”

Quarter	CY Quarterly Visual Assessments		
1	April 1	–	May 31
2	June 1	–	July 31
3	August 1	–	September 30
4	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 N3B-EPC-CP-QP-064, “MSGP Storm Water Visual Inspections.”

Corrective actions identified during the assessment will be addressed in accordance with Section 6.0 of this SWPPP, and applicable N3B procedures.

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 monitoring 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 in accordance with the 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 samples from a discharge 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, and it identifies the current monitoring year (MY) analytical and/or visual assessment requirements, analytical methods, preservation requirements, volume requirements, types of shipping containers, types of sampler to be used, and holding times for each monitored outfall.

4.7.1 Monitoring Schedule

For this permit term, monitoring by N3B began the first full quarter following the transition of TA-54 operations from LANS to N3B, beginning with the second quarter of 2018. Benchmark monitoring will be conducted on a modified quarterly basis in accordance with the monitoring schedule below.

Quarter	Monitoring Schedule		
1	April 1	–	May 31
2	June 1	–	July 31
3	August 1	–	September 30
4	October 1	–	November 30

Certain circumstances, such as a lack of qualifying storm events, or imposition of a stop work order by DOE, could result in the situation where no samples are collected during one or more quarters at one or more monitored outfalls. This situation will be documented as necessary. **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, or another unanticipated circumstance prohibits the collection of a sample (such as the issuance of a stop work order by DOE).

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, N3B has modified the quarterly periods in the monitoring schedule above. If adverse weather conditions or other unanticipated situations prevent the collection of samples according to the relevant monitoring schedule or if a qualifying storm event has not occurred during these identified quarters, if possible, 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 uses substantially identical outfalls (SIOs) 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 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 its respective discharge point.

Required information supporting the SIO determinations 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 and flows to Pajarito Canyon.

SIO-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.

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

Table 4.7-1
Area G (West Map): Discharge Points (Monitored Outfalls) and SIOs

Outfall ID	Outfall Location ^a	Activities/ Potential Pollutants ^b	Runoff Coefficient	Control Measures
Monitored Outfall 051	Southeast of west TSDF area; discharge to Pajarito Canyon	Radionuclides – LLW, mixed LLW, TRU and mixed TRU waste, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze, pesticides/herbicides, paints, cleaners	85%	Culvert with flow velocity dissipaters, rock check dams, asphalt swales, riprap, silt fence
SIO-052	East side of west TSDF area; discharge to Pajarito Canyon	Radionuclides – LLW, mixed LLW, TRU and mixed TRU waste, sediment from soil stockpile, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze, pesticides/herbicides, paints, cleaners		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 waste, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze, pesticides/herbicides, paints, cleaners		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/run-down, rock blanket, silt fence

^a TSDF = treatment, storage, and disposal facility.

^b VOCs = volatile organic compounds; SVOCs = semivolatile organic compounds.

Table 4.7-2
Area G (East Map): Discharge Points (Monitored Outfalls) and SIOs

Outfall ID	Outfall Location ^a	Activities/ Potential Pollutants ^b	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, pesticides/herbicides, paints, cleaners	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, pesticides/herbicides, paints, cleaners	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 waste, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze, pesticides/herbicides, paints, cleaners		Rock check dams, silt fence
SIO-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

^a PVC = polyvinyl chloride.

^b 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.

Table 4.7-3
Area L: Discharge Point (Monitored Outfall)

Outfall ID	Outfall Location	Activities/Potential Pollutants*	Runoff Coefficient	Control Measures
Monitored Outfall 050	Southeast corner of the facility boundary; discharge to Cañada del Buey	Radionuclides – LLW, mixed LLW, TRU and mixed TRU waste, metals, VOCs, SVOCs, oils, PCBs, fuels, antifreeze, pesticides/herbicides, paints, cleaners	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 (SAP) and summarized in the following sections. This plan is updated each CY, based on prior results and updated impairments, as needed. Note that while the current impairment monitoring requirements are based on the 2018–2020 State of New Mexico 303(d) list, the 2020–2022 303(d) list has been released and approved by the New Mexico Water Quality Control Commission and is pending approval by the EPA. The 2020–2022 impairments listed for the involved water segments remain unchanged from the 2018–2020 303(d) list.

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 (snowmelt 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 MY 2020.

Table 4.7-4
TA-54-Area G Outfall 051

Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte ^a	Filtered/ Unfiltered ^b	Regulatory Standard	Units	Regulatory Standard Type
Impaired Water	—	NM-128.A_08	PCBs Total Aroclors	UF	2.0	µg/L	NM 2018 Aquatic Acute
Impaired Water	—	NM-128.A_08	Al (total recoverable)	F10u	660	µg/L	NM 2018 Aquatic Acute – Hardness Dependent
Impaired Water	—	NM-128.A_08	Cu (dissolved)	F	4.35	µg/L	NM 2018 Aquatic Acute – Hardness Dependent
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)	UF	0.7	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	As (total)	UF	150	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Cd (total)	UF	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 Sector K QBM
Quarterly Benchmark	K	—	NH-3	UF	2140	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Pb (total)	UF	23	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	Se (total)	UF	5	µg/L	2015 MSGP Sector K QBM

^a 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.

^b UF = unfiltered; F10u = filtered using a 10-um filter; F=filtered using a 0.45-um filter.

The regulatory standards for hardness dependent metals are calculated using a hardness value of 30.2 mg/L.

Table 4.7-5
TA-54 Area G Outfall 053

Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte ^a	Filtered/ Unfiltered ^b	Regulatory Standard	Units	Regulatory Standard Type
Impaired Water	—	NM-128.A_08	PCBs Total Aroclors	UF	2.0	µg/L	NM 2018 Aquatic Acute
Impaired Water	—	NM-128.A_08	Al (total recoverable)	F10u	660	µg/L	NM 2018 Aquatic Acute – Hardness Dependent
Impaired Water	—	NM-128.A_08	Cu (dissolved)	F	4.35	µg/L	NM 2018 Aquatic Acute – Hardness Dependent
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)	UF	0.7	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	As (total)	UF	150	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Cd (total)	UF	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 Sector K QBM
Quarterly Benchmark	K	—	NH-3	UF	2140	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Pb (total)	UF	23	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	Se (total)	UF	5	µg/L	2015 MSGP Sector K QBM

^a 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.

^b UF = unfiltered; F10u = filtered using a 10-um filter; F=filtered using a 0.45-um filter.

The regulatory standards for hardness dependent metals based regulatory standards are calculated using a hardness value of 30.2 mg/L.

Table 4.7-6
TA-54 Area G Outfall 069

Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte ^a	Filtered/ Unfiltered ^b	Regulatory Standard	Units	Regulatory Standard Type
Impaired Water	—	NM-128.A_08	PCBs Total Aroclors	UF	2.0	µg/L	NM 2018 Aquatic Acute
Impaired Water	—	NM-128.A_08	Al (total recoverable)	F10u	660	µg/L	NM 2018 Aquatic Acute – Hardness Dependent
Impaired Water	—	NM-128.A_08	Cu (dissolved)	F	4.35	µg/L	NM 2018 Aquatic Acute – Hardness Dependent
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	—	Mg (total)	UF	64	µg/L	2015 MSGP Sector K QBM

^a Al = aluminum; CN = cyanide; Cu = copper; Mg = magnesium.

^b UF = unfiltered; F10u =filtered using a 10-um filter; ; F=filtered using a 0.45-um filter.

The regulatory standards for hardness dependent metals based regulatory standards are calculated using a hardness value of 30.2 mg/L.

Table 4.7-7
TA-54 Area G Outfall 072

Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte ^a	Filtered/ Unfiltered ^b	Regulatory Standard	Units	Regulatory Standard Type
Impaired Water	—	NM-128.A_00	PCBs Total Aroclors	UF	2.0	µg/L	NM 2018 Aquatic Acute
Impaired Water	—	NM-128.A_00	Gross Alpha (adjusted)	UF	15	pCi/L	NM 2018 Livestock Watering
Quarterly Benchmark	K	—	Ag (total)	UF	0.7	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	As (total)	UF	150	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Cd (total)	UF	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 Sector K QBM
Quarterly Benchmark	K	—	NH-3	UF	2140	µg/L	2015 MSGP Sector K QBM
Quarterly Benchmark	K	—	Pb (total)	UF	23	µg/L	2015 MSGP Sector K QBM Hardness Dependent
Quarterly Benchmark	K	—	Se (total)	UF	5	µg/L	2015 MSGP Sector K QBM

^a Ag = silver; As = arsenic; Cd = cadmium; CN = cyanide; COD = chemical oxygen demand; Hg = mercury; Mg = magnesium; NH-3 = ammonia; Pb = lead; and Se = selenium.

^b UF = unfiltered.

The regulatory standards for hardness dependent metals are calculated using a hardness value of 29.5 mg/L.

Table 4.7-8
TA-54 Area L Outfall 050

Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte ^a	Filtered/ Unfiltered ^b	Regulatory Standard	Units	Regulatory Standard Type
Impaired Waters	—	NM-128.A_00	PCBs Total Aroclors	UF	2.0	µg/L	NM 2018 Aquatic Acute
Impaired Waters	—	NM-128.A_00	Adjusted Gross Alpha	UF	15	pCi/L	NM 2010 Livestock Watering
Quarterly Benchmark	K	—	Mg (total)	UF	64	µg/L	2015 MSGP Sector K QBM

^a Mg = magnesium.

^b UF = unfiltered.

4.7.4 Monitoring Results

If the average of 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 the site-specific background level), the PPT and Regulatory Compliance personnel will perform the following tasks:

- 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 for the balance of the permit term.

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 for 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 Intellus.

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 (ESA) 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 inhabit 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 ESA. These activities will also not result in the adverse modification or destruction of a habitat that is federally designated as a "critical habitat" under the ESA. New activities are evaluated to determine if they will have an impact on 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.

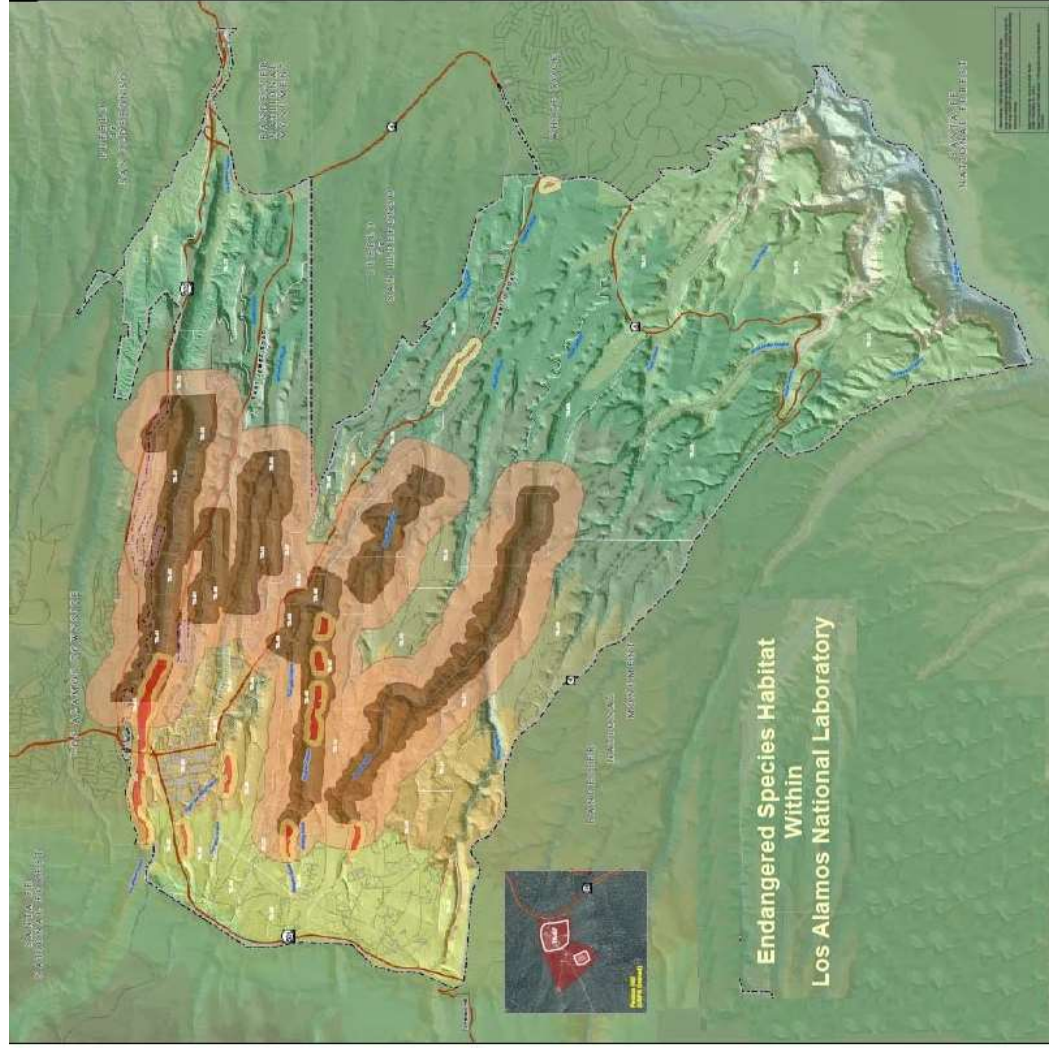


Figure 5.1-1 Endangered species habitat within LANL

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 their 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 (MainConn). As necessary, initiation of a corrective action will be triggered and tracked for completion.

- An unauthorized release or discharge (e.g., a non-incidental spill, leak, or discharge of non-storm water not authorized by this or any other NPDES permit) that occurs at the facility.
- Control measures determined to be insufficient to meet applicable water quality standards (as not functional or requiring maintenance).
- An inspection or evaluation of the facility that 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 causes significant changes in the nature of pollutants discharged in storm water or increases the quantity of pollutants discharged.
- The average of four quarterly sampling results that 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 a corrective action.

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 achievable in light of best industry practices.

Routine maintenance requirements noted during inspections will be entered in the N3B MSGP storm water database (MainConn) 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. Corrective actions will be documented in accordance with N3B-SOP-ER-5016, "Multi-Sector General Permit Storm Water Corrective Actions."

6.2 Subsequent Actions

All conditions subject to corrective actions will be documented in the N3B MSGP storm water database (MainConn) upon discovery/occurrence. While attempts will be made to immediately address each condition subject to a corrective action, an 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 with the installation of temporary controls, etc.) and how much additional time will be 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 the 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

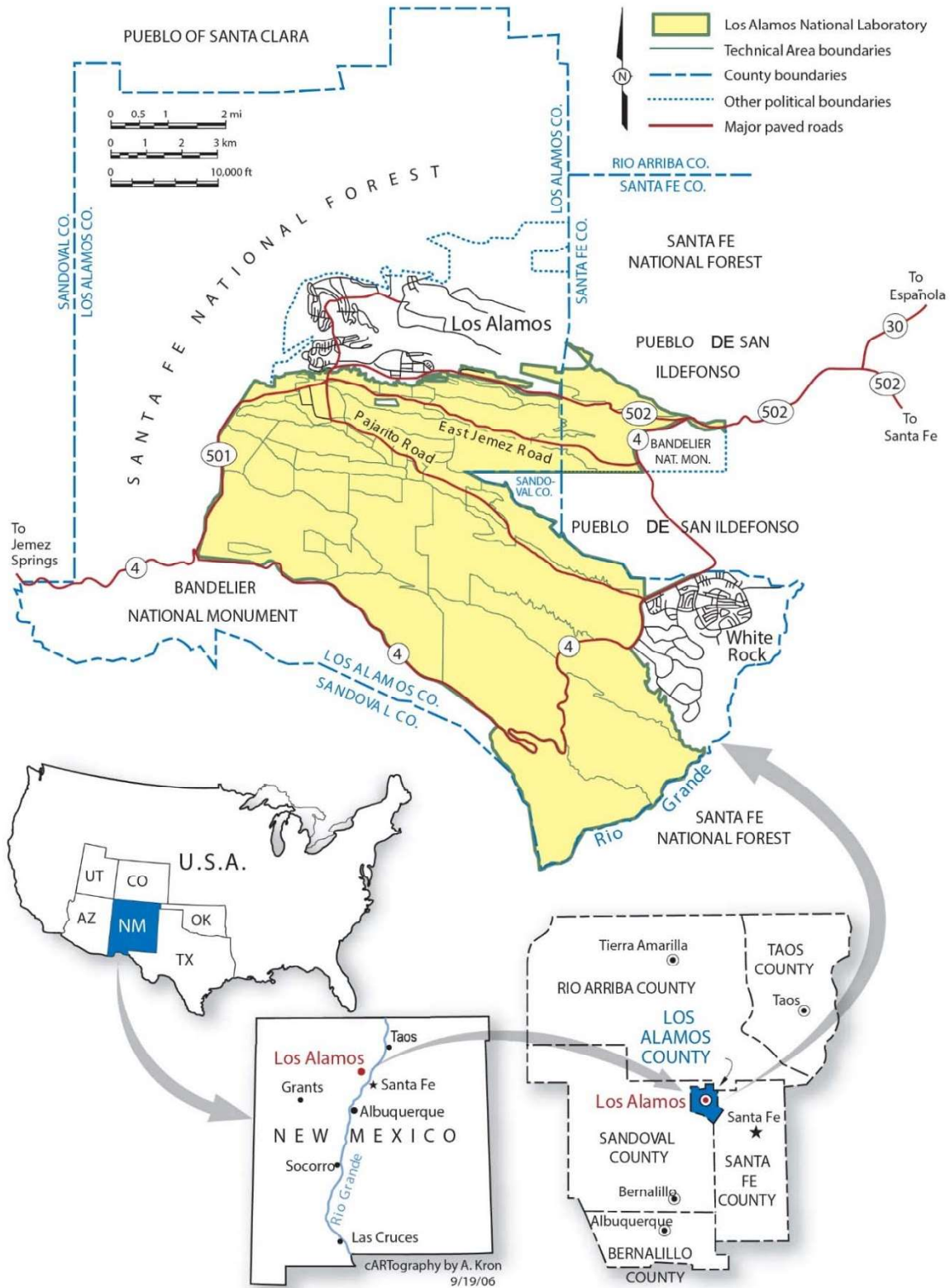
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Digitally signed by Emily Day
Date: 2021.01.21 11:57:38
-07'00'

Date: _____

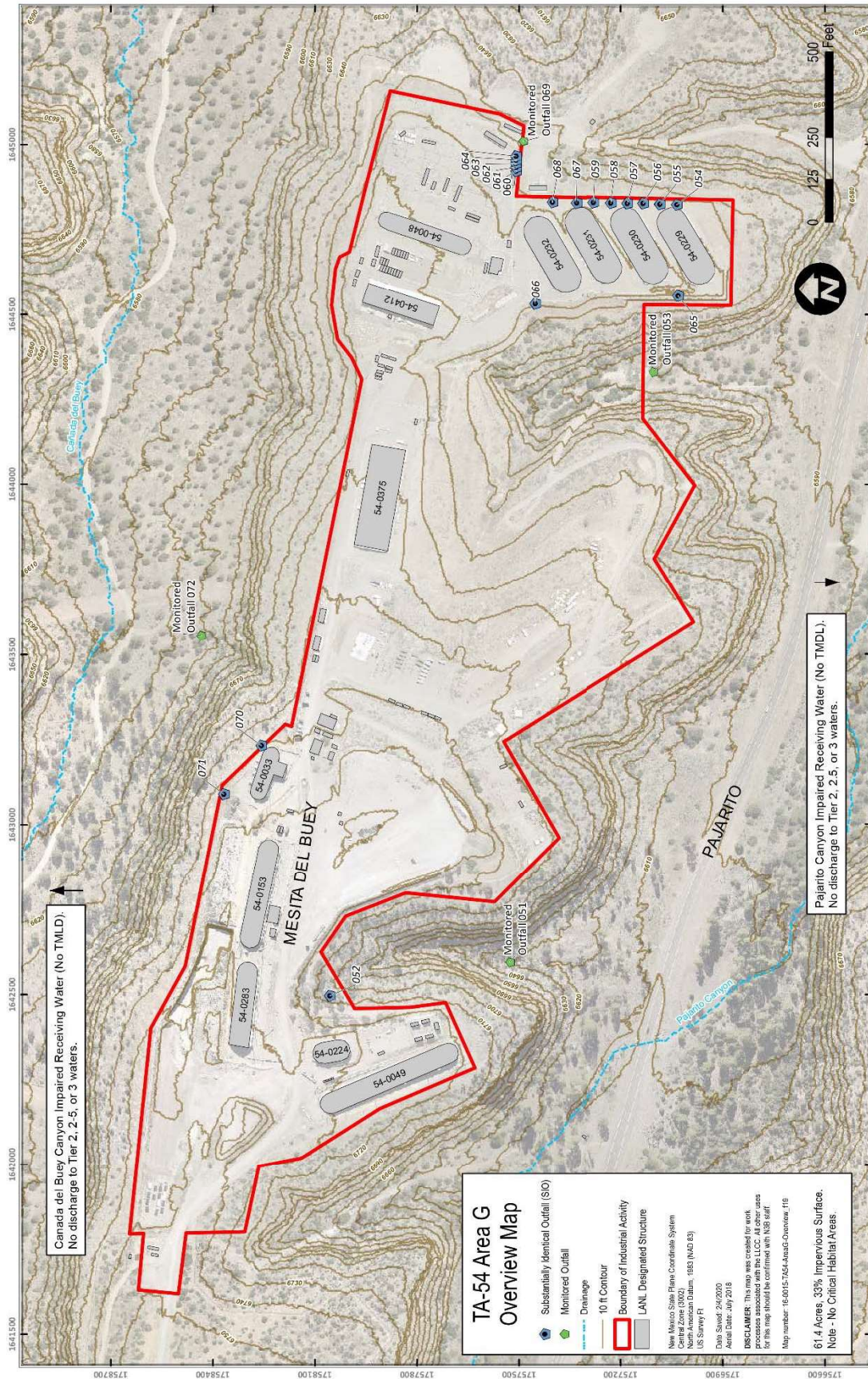
8.0 SWPPP Modifications

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.

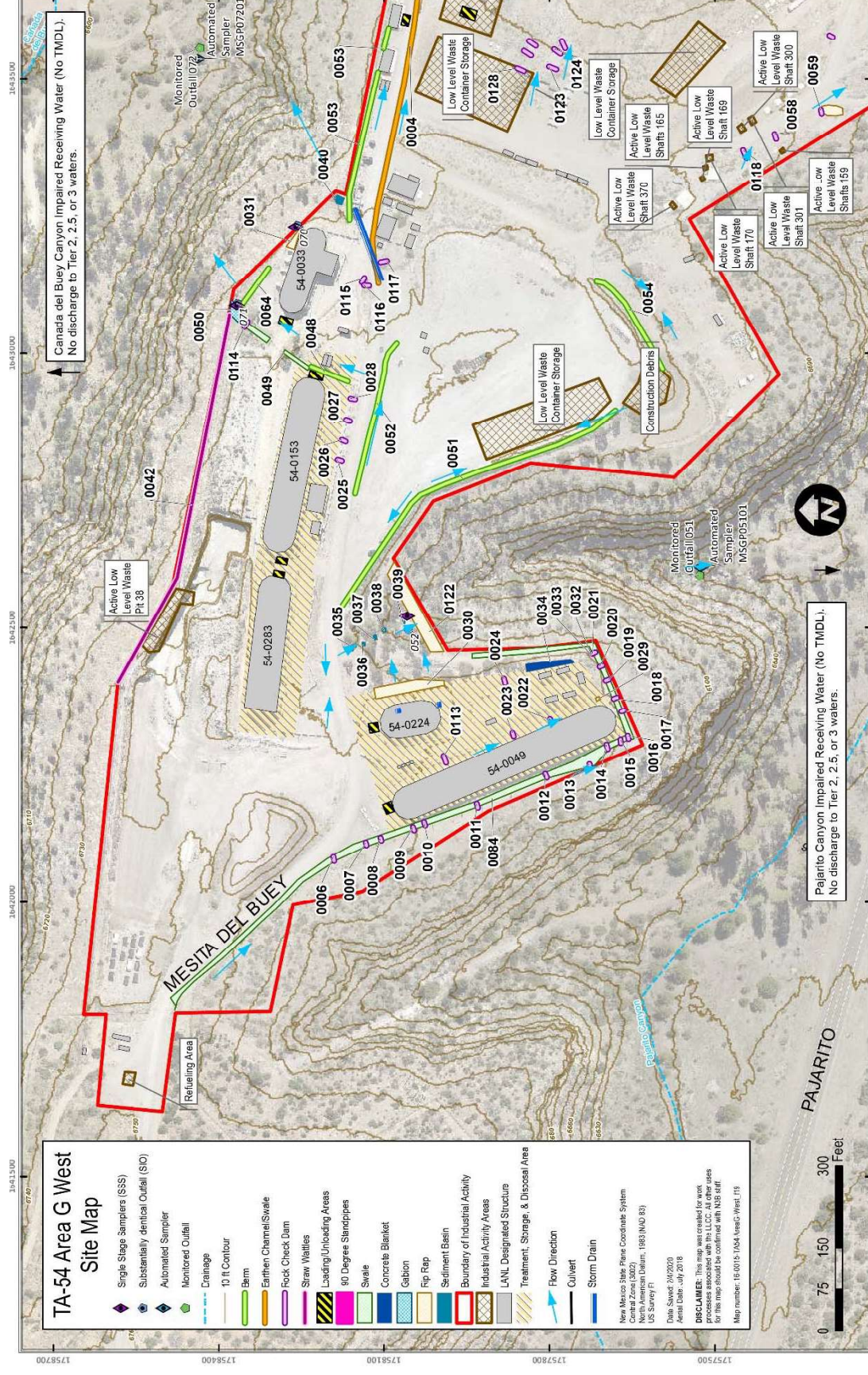
Attachment A. General Location Map



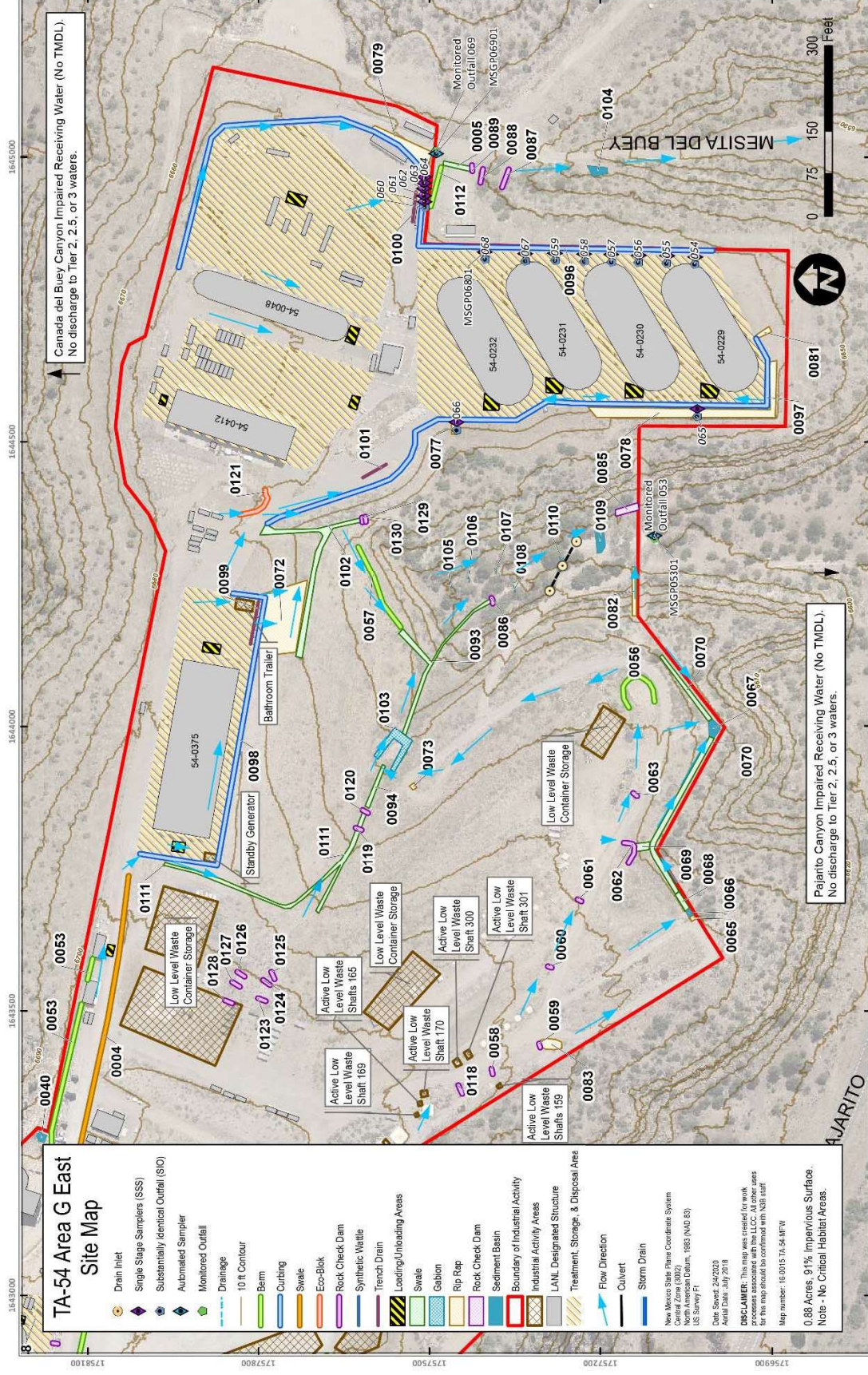
Attachment B. Site Maps



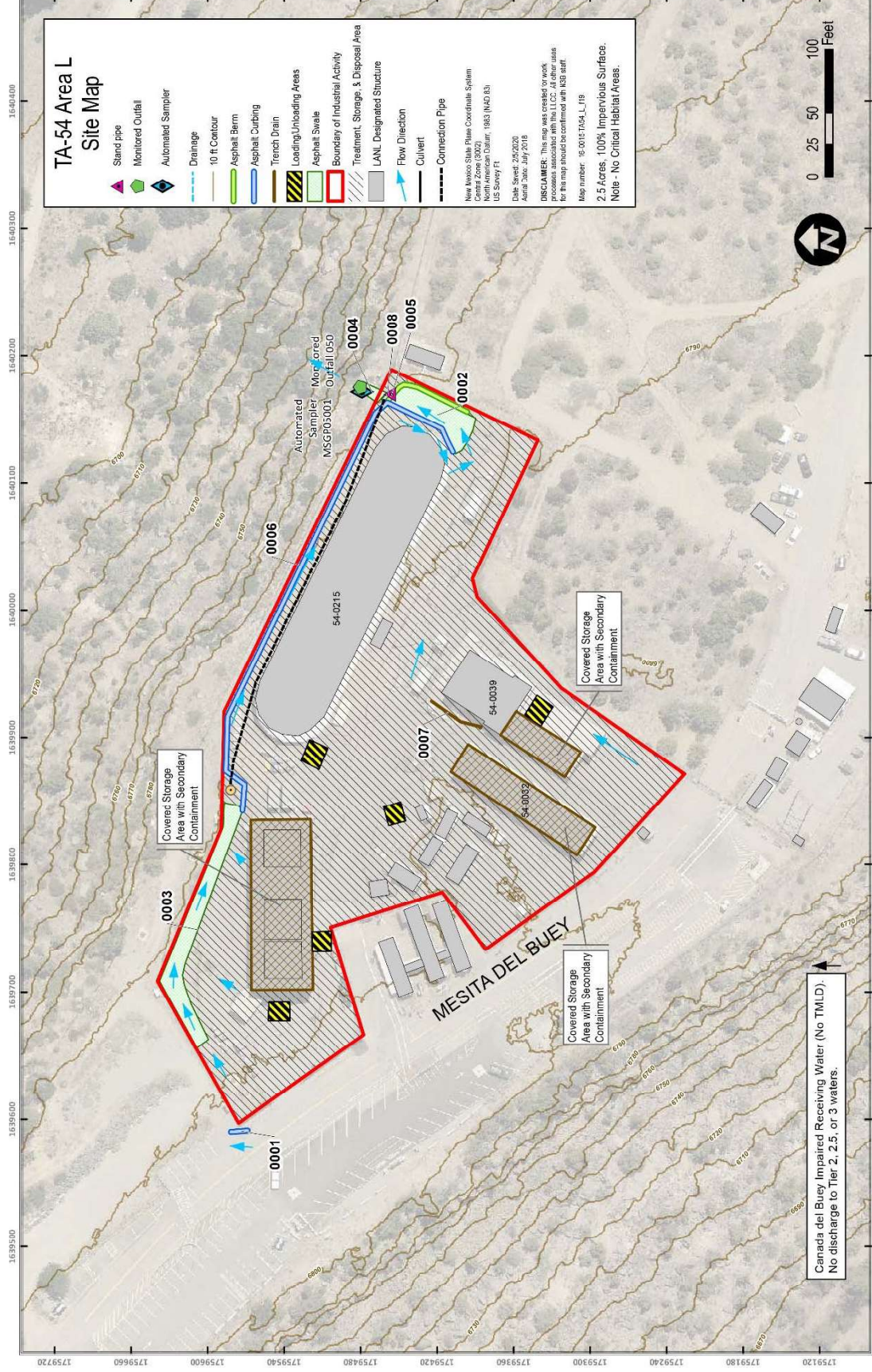
TA-54 Areas G and L Storm Water Pollution Prevention Plan



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



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



Attachment C. Relevant Procedures



Number	Title
N3B-EPC-CP-QP-064	MSGP Storm Water Visual Inspections
N3B-AOP-TRU-3003	Material Release or Spill
N3B-SOP-RP-0005	Radiological Emergency Response
N3B-SOP-ER-5016	Multi-Sector General Permit Storm Water Corrective Actions
N3B-DOP-TRU-1304, R1	Industrial Truck and Equipment Refueling and Recharging

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

Maintenance Details

Requested: 12/1/2020 1:01:41 AM
Procedure: MSGP Stormwater Industrial Routine Facility Inspection (N3B-SOP-ER-5016-1)
Last PM: 12/10/2020
Project: 2019 Routine Facility Inspections (P-MSGP-5921)
Reason: MSGP Stormwater Industrial Routine Facility Inspection

Target: 3/31/2021
Priority/Type: / Preventive

 **MSGP TA 54**
 **RG249.5**
 **TA-54 Area G**

Contact:
Phone:

Tasks

#	Description	Meas.	No	Yes
WEATHER INFORMATION				
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"/>
Within the Facility Boundary				
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"/>
Outfall Inspection needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)				
90	Monitored Outfall [051] Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
100	Monitored Outfall [051] Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
110	Monitored Outfall [051] Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
120	Monitored Outfall [053] Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
130	Monitored Outfall [053] Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
140	Monitored Outfall [053] Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
150	Monitored Outfall [069] Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
160	Monitored Outfall [069] Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
170	Monitored Outfall [069] Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
180	Monitored Outfall [072] Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
190	Monitored Outfall [072] Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
200	Monitored Outfall [072] Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
210	Substantially Identical Outfall [052] Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
220	Substantially Identical Outfall [052] Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
230	Substantially Identical Outfall [052] Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
240	Substantially Identical Outfall [054] Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
250	Substantially Identical Outfall [054] Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
260	Substantially Identical Outfall [054] Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>

[illegible]

630	Substantially Identical Outfall [067] Free of evidence of erosion? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
640	Substantially Identical Outfall [067] Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
650	Substantially Identical Outfall [067] Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
660	Substantially Identical Outfall [068] Free of evidence of erosion? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
670	Substantially Identical Outfall [068] Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
680	Substantially Identical Outfall [068] Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
690	Substantially Identical Outfall [070] Free of evidence of erosion? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
700	Substantially Identical Outfall [070] Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
710	Substantially Identical Outfall [070] Free of evidence of pollutants in Discharges and/or Receiving Water? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
720	Substantially Identical Outfall [071] Free of evidence of erosion? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
730	Substantially Identical Outfall [071] Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)	<input type="checkbox"/>	<input type="checkbox"/>
740	Substantially Identical Outfall [071] 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, recommended preventive maintenance, or a description of corrective actions in relevant task comments).

760	90 Degree Standpipe [5400110010032] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
770	90 Degree Standpipe [5400110010033] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
780	Asphalt Berm [5400103040048] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
790	Concrete Blanket [5400101080034] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
800	Concrete/Asphalt Channel/Swale [5400104020049] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
810	Concrete/Asphalt Channel/Swale [5400104020102] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
820	Concrete/Asphalt Channel/Swale [5400104020111] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
830	Curbing [5400103090096] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
840	Curbing [5400103090097] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
850	Curbing [5400103090098] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
860	Earthen Berm [5400103010051] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
870	Earthen Berm [5400103010052] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
880	Earthen Berm [5400103010053] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
890	Earthen Berm [5400103010054] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
900	Earthen Berm [5400103010055] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
910	Earthen Berm [5400103010056] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
920	Earthen Berm [5400103010057] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
930	Earthen Berm [5400103010064] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>
940	Earthen Channel/Swale [5400104010004] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.	<input type="checkbox"/>	<input type="checkbox"/>

[illegible]

[illegible]

[illegible]

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: _____ Z#: _____

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

Maintenance Details

Requested: 12/1/2020 1:04:44 AM
Procedure: MSGP Stormwater Industrial Routine Facility Inspection (N3B-SOP-ER-5016-1)
Last PM: 12/10/2020
Project: 2019 Routine Facility Inspections (P-MSGP-5921)
Reason: MSGP Stormwater Industrial Routine Facility Inspection

Target: 3/31/2021
Priority/Type: / Preventive

 MSGP TA 54
 RG249.5
 TA-54 Area L

Contact:
Phone:

Tasks

#	Description	Meas.	No	Yes
WEATHER INFORMATION				
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"/>
Within the Facility Boundary				
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"/>
Outfall Inspection needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)				
90	Monitored Outfall [050] Free of evidence of erosion? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
100	Monitored Outfall [050] Flow Dissipation Devices Operating Effectively? (Range: 0 - 0)		<input type="checkbox"/>	<input type="checkbox"/>
110	Monitored Outfall [050] 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, recommended preventive maintenance, or a description of corrective actions in relevant task comments).				
130	90 Degree Standpipe [5400210010008] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
140	Asphalt Berm [5400203040005] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
150	Asphalt Berm [5400203040006] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
160	Concrete/Asphalt Channel/Swale [5400204020002] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
170	Concrete/Asphalt Channel/Swale [5400204020003] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
180	Concrete/Asphalt Channel/Swale [5400204020004] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
190	Curbing [5400203090001] Is control measure operating effectively? If "No" describe condition and need for maintenance, repair, or replacement.		<input type="checkbox"/>	<input type="checkbox"/>
200	Trench Drain [5400209040007] 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.			
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"/>
Non-Compliance				
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"/>
Additional Controls				
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: _____ Z#: _____

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

Attachment E. Quarterly Visual Assessments 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
	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: July 2, 2020

N3B-2020-0232

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 Representatives 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:

- Jeff Holland, Regulatory and Stakeholder Interface Program Manager (acting)
- Kim Lebak, Environmental Remediation (ER) Program Manager
- Joseph Murdock, Environment, Safety and Health 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 or need additional information, please contact Jennifer von Rohr at (505) 695-4365 (jennifer.vonrohr@em-la.doe.gov).

Sincerely,



Glenn Morgan
President

EL:jv

cc: (letter emailed)

Laurie King, EPA Region 6
Chris Catechis, NMED-DOE-OB
Steve Yanicak, NMED-DOE-OB
M. Lee Bishop, EM-LA
Arturo Duran, EM-LA
Stephen Hoffman, EM-LA
Kirk D. Lachman, EM-LA
David Nickless, EM-LA
Cheryl Rodriguez, EM-LA
Ben Underwood, EM-LA
William Alexander, N3B
Donald Carlson, N3B
Emily Day, N3B
Michael Erickson, N3B
Mary Erwin, N3B
Thomas Harrison, N3B
Debby Holgerson, N3B
Jeff Holland, N3B
Kim Lebak, N3B
Joseph Legare, N3B
Dana Lindsay, N3B
Frazer Lockhart, N3B
Elizabeth Lowes, N3B
Pamela Maestas, N3B

Christian Maupin, N3B
Jeremiah McLaughlin, N3B
Jason Moore, N3B
Glenn Morgan, N3B
Joseph Murdock, N3B
Joseph Noll, N3B
Gerald O'Leary III, N3B
William O'Neill, N3B
Bruce Robinson, N3B
Troy Thompson, N3B
Steve Veenis, N3B
Tashia Vigil, N3B
Jennifer von Rohr, N3B
Amanda White, N3B
emla.docs@em.doe.gov
n3brecords@em-la.doe.gov
PRS Website

Pamela T. Maestas

From: Maguire, Charles <maguire.charles@epa.gov>
Sent: Thursday, July 2, 2020 11:53 AM
To: Pamela T. Maestas
Cc: Regulatory Documentation; Jahan, Nasim; Jennifer Von Rohr; Emily M. Day; Larsen, Brent; Martinez, Maria; Hayes, Mark
Subject: RE: Submittal to EPA on 7/2/2020 of CWA and NPDES Delegated Authorities

Receipt acknowledged and I will forward to my division staff.

From: Pamela T. Maestas <pamela.maestas@em-la.doe.gov>
Sent: Thursday, July 2, 2020 11:25 AM
To: Maguire, Charles <maguire.charles@epa.gov>
Cc: Regulatory Documentation <RegDocs@EM-LA.DOE.GOV>; Jahan, Nasim <Jahan.Nasim@epa.gov>; Jennifer Von Rohr <Jennifer.VonRohr@EM-LA.DOE.GOV>; Emily M. Day <Emily.Day@em-la.doe.gov>
Subject: Submittal to EPA on 7/2/2020 of CWA and NPDES Delegated Authorities

Mr. Maguire,

Attached for submittal is a pdf of the following:

- Delegation of Authorized Representatives for the Clean Water Act and National Pollutant Discharge Elimination System Individual Permit (N3B-2020-0232)

Please acknowledge receipt of this submittal by responding to this email.

Let me know if you have any questions.

Thank you.

Pamela T. Maestas

Regulatory Documentation Manager


Newport News Nuclear BWXT-Los Alamos, LLC

c. 505-927-7882

regdocs@em-la.doe.gov



1200 Trinity Drive, Suite 150
Los Alamos, NM 87544

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

Master Permit Number: NMR050000

NPDES ID: NMR050012

Eligibility Information

State/territory where your facility is located: NM

Is your facility located on Federally Recognized Indian Country Lands? No

Are you a "Federal Operator" as defined in Appendix A (https://www.epa.gov/sites/production/files/2015-10/documents/msgp2015_appendixa.pdf)? Yes

Which 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.

Yes

Are 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)? 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))

No

Does 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)? 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 Alamos

ZIP/Postal Code: 87544

State: NM

County or Similar Division: Los Alamos

Operator Point of Contact Information

First Name Middle Initial Last Name: Glenn Morgan

Organization:

Title: N3B Program Manager

Phone: 505-309-1374 Ext.:

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

NOI Preparer Information

First Name Middle Initial Last Name: Jennifer von Rohr

Organization: Newport News Nuclear, BWXT Los Alamos

Phone: 505-257-7424 Ext.:

Email: jennifer.vonrohr@em-la.doe.gov

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? No

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 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]

Cause of Impairment Group	Pollutant
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

☒ 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](#)

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](#)

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

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

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)) (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) 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):

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) 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