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2015

Multi-Sector General Permit (MSGP)

TA54 Storm Water Pollution Prevention Plans (SWPPPs)

Training and 10-Question Quiz

LA-UR-15-xxxxx

In addition to Annual Stormwater Training, this new 2015 MSGP TA54 SWPPPs Training Requirement includes passing a 10-Question Quiz (80% or better)

TA54 SWPPPs Training applies to:

- **Employees who work at TA-54 Area G, Area L, RANT, and the Maintenance Facility West, and who:**
 - Move/handle waste,
 - Operate equipment or vehicles,
 - Handle metal, debris and other pollutants like oil, fuel, etc. outside; or
 - Work outside with industrial materials exposed to storm water
- **Employees responsible for implementing activities necessary to meet the conditions of the permit:**
 - Personnel installing and maintaining storm water controls
 - All members of the facility MSGP Pollution Prevention Team (PPT)
 - Deployed Environmental Professionals (DEPs) or other personnel conducting storm water inspections and visual assessments, identifying corrective actions, writing SWPPP revisions, etc.

TA54 Employee SWPPPs Training includes:

1. **PREREQUISITE (U-Train): MSGP Annual Industrial Storm Water Training for**
 - TA50, WCRRF “No Exposure Facility”– (No SWPPP required)
 - TA54, Area G, Area L, RANT, and the Maintenance Facility West --
2. **Copies of TA54 SWPPPs:**
 - EP-TA54-PLAN-1158, Area G, Area L, and RANT --
 - EP-TA54-PLAN-1307, Maintenance Facility West --
3. **Copy of the 2015 National Pollutant Discharge Elimination System (NPDES) MSGP for LANL Stormwater Discharges Associated with Industrial Activities**
 - Notice of Intent (NOI) to Discharge --
4. **TA54 SWPPPs Training with 10-Question Quiz (U-Train)**

2015 MSGP Notice of Intent (NOI) to Discharge

ENV-CP Submitted 9/2/2015 and Certified 9/3/2015 with the EPA
Master Permit Number: NMR050000

Includes TA54 Applicable MSGP (Industrial Activities) Sectors:

- Sector P: Land Transportation and Warehousing
- Sector K: Hazardous Waste Treatment, Storage, or Disposal Facilities

Canyons Receiving Stormwater Run-off from TA54 Facilities:

- Stormwater discharging to the north flows into Cañada Del Buey Canyon:
– *“Impaired Waters of the State”* –
for: Aluminum (Total), Copper, and Polychlorinated Biphenyls PCBs
- Stormwater discharging to the south flows into Pajarito Canyon:
– *“Impaired Waters of the State”* –
for: Aluminum (Total), Gross Alpha (adjusted), and Polychlorinated Biphenyls (PCBs)

Stormwater Pollution Prevention Plan

for:

TA54 Maintenance Facility West

SWPPP Contact(s):

Facility Maintenance Manager

Glenn VanDerpoel

(505) 667-3122

gvanderpoel@lanl.gov

SWPPP Preparation Date:

8/27/2015

LA-UR-15-26722

Stormwater Pollution Prevention Plan

for:

TA54 Areas G, L, and the Radioassay
Non-Destructive Testing (RANT)

SWPPP Contact(s):

TA-54 Operations Manager

Gail M. Helm

(505) 665-8682

gailw@lanl.gov

SWPPP Preparation Date:

08/28/2015

LA-UR-15-26758

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TA54 SWPPP SECTION 1: FACILITY DESCRIPTION AND CONTACT INFORMATION

Gail Helm, Pat O'Grady, Bob Harder (TA54 Operations):

- **Area G (West, Central, and East)**
- **Area L**
- **RANT**

Glenn VanDerpoel, Alfredo Rodriguez (TA54 Maintenance):

- **Maintenance Facility West (formerly the MSS laydown yard)**

TA54 SWPPP SECTION 2: POTENTIAL POLLUTANT SOURCES

- Sediment moved by stormwater flow
- Rusty Metal (Buildings, equipment, drums, debris, etc.)
- Fuel (Ignitable, combustible)
- Other Hydrocarbons: Oils, fuels, antifreeze, grease
- Radionuclides
- RCRA: Metals, Volatile Organic Compounds (VOCs), Semi Volatile Organic Compounds (SVOCs)
- Corrosives: Acids (HF, HCl, H₂SO₄, battery acid, etc.) and Bases (NaOH)
- Reactives: Cyanides, and air and water reactive material
- TSCA: PCBs
- Commercial Chemical Products (bleach, Lysol, fire retardant and other cleaning products) and Trash (housekeeping)

TA54 Stormwater Monitoring/Sampling shows:

- *Chemical Oxygen Demand (COD) benchmark exceeded its limit (120 ppm) since 2009!*

TA54 SWPPP SECTION 3: STORMWATER CONTROL MEASURES

Examples of increased specificity on control measures:

- Label containers that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid spill response
- Drain fluids from equipment and vehicles that are decommissioned or that will remain unused for an extended period (e.g., longer than six months)
- Sweep or vacuum asphalt/concrete pads at regular intervals
- Cover or close all dumpsters and bins when not in use
- Implement procedures for material storage and handling (spill control)

■ EWMO Procedures included in SWPPP are:

- Industrial Truck and Equipment Refueling and Recharging (EP-DIV-DOP-20085)
- Specific Forklift and Drum Handler Equipment Operations (EP-DIV-DOP-20086)

TA54 SWPPP SECTION 4: SCHEDULES AND PROCEDURES

- The TA-54 MSGP Facilities are actively managed with qualified staff.
 - Operational and Maintenance Activities: Daily, weekly, monthly, quarterly, and annually
- Procedures supporting the implementation of TA54 SWPPPs are summarized in Attachment I.
 - Industrial Truck and Equipment Refueling and Recharging (EP-DIV-DOP-20085)
 - Specific Forklift and Drum Handler Equipment Operations (EP-DIV-DOP-20086)

TA54 SWPPP SECTION 4: SCHEDULES AND PROCEDURES (continued)

- Employees are able to recognize and avoid situations that could lead to stormwater contamination, prevent spills and releases, and respond safely and effectively to a spill or release.
 - Inspection checklists
 - Employee observations that the site layout seems out-of-place (something is not right)
- General Specifications of Best Management Practices (BMP) installation and maintenance control measures are found in the LANL BMP Guidance Document
 - <http://permalink.lanl.gov/object/tr?what=info:lanlrepo/lareport/ LA-UR-11-10371>.

TA54 SWPPP SECTION 5: DOCUMENTATION TO SUPPORT ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

The Los Alamos National Laboratory (LANL) Threatened and Endangered Species Habitat Management Plan (HMP) was prepared to provide for the protection of federally listed threatened and endangered species and their habitats at LANL. The HMP was designed to be a comprehensive landscape-scale management plan that balances the current operations and future development needs of LANL with the habitat requirements of threatened and endangered species. It also facilitates DOE compliance with the Endangered Species Act and related federal regulations.

TA54 SWPPP SECTION 5: DOCUMENTATION TO SUPPORT ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS (continued)

Currently, the only federally-listed endangered species that have habitat or occur at LANL are the:

- Southwestern Willow Flycatcher (*Empidonax trailii extimus*)
- Jemez Mountains Salamander (*Plethodon neomexicanus*)
- Mexican Spotted Owl (*Strix occidentalis lucida*)

TA54 SWPPP SECTION 6: CORRECTIVE ACTIONS AND DEADLINES

- Upon discovery of any of the following conditions, the condition must be documented within 24 hours
- Complete the corrective actions (e.g., install a new or modified control and make it operational, complete the repair) before the next storm event if possible, and within 14 calendar days from the time of discovery of the corrective action condition.
- If the completion of corrective action will exceed the 45 day timeframe, one may take the minimum additional time necessary to complete the corrective action, provided that you notify the EPA Regional Office of your intention to exceed 45 days, your rationale for an extension, and a completion date, which you must also include in your corrective action documentation (MSGP Part 4.4).
- For spills or leaks, additional notifications to ENV-CP as well as completing an unplanned Release report (e.g., Spill Report).

TA54 SWPPP SECTION 7: 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 or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

TA54 SWPPP SECTION 8: SWPPP MODIFICATIONS

The TA54 SWPPPs are living documents:

The SWPPP will be modified by the PPT and reviewed by the ENV-CP Project Lead, whenever necessary, to address any of the triggering conditions for corrective actions listed in Section 6 of this SWPPP to ensure that they do not reoccur; or to reflect changes implemented when a review following the triggering conditions listed in Section 6 of this SWPPP indicates that changes to control measures are necessary to meet the effluent limits described in this SWPPP. Changes to this SWPPP document must be made in accordance with the corrective action deadlines defined in Section 6 and must be signed and dated in accordance with the signatory requirements listed in Attachment B Subsection 11 (Signatory requirements) of the 2015 MSGP. A record of amendments to the SWPPP will be tracked in the amendment logs located in Attachment D of the TA54 SWPPPs.

TA54 SWPPP ATTACHMENTS

Attachment A — General Location Map

Attachment B — Site Maps

Attachment C — 2015 MSGP

Attachment D — SWPPP Amendments

Attachment E — Quarterly Visual Assessments

Attachment F — Routine Facility Inspections

Attachment G — Annual Reports

Attachment H — Sampling Data

TA54 SWPPP ATTACHMENTS (continued)

Attachment I — Standard Operation and Maintenance Procedures

Attachment J — Threatened and Endangered Species Habitat Management Plan for LANL

Attachment K — Concurrence_8DEC2013_Biological Assessment of Jemez Mtn Salamander Site Plan

Attachment L — Authorized Representatives for NPDES Stormwater General Permits

TA54 SWPPP Quiz

1. Where can you find the TA54 Stormwater Pollution Prevention Plans (e.g., SWPPPs: EP-TA54-PLAN- 1158 and -1307)?

- a. ADNHHO Plans and Procedures
- b. ADESCH Plans and Procedures
- c. EWMO Plans and Procedures
- d. LANL Public Reading Room

2. What specific MSGP Industrial Activities Sectors apply to TA 54 TSDF Operations and Maintenance SWPPPs?

- a. Sectors P and U
- b. Sectors K and P
- c. Sectors U and D
- d. Sectors D and K

3. What areas/facilities do the TA54 SWPPPs cover?

- a. Areas G, L, and RANT
- b. WCRRF
- c. Maintenance Facility West (aka: MSS Laydown Yard)
- d. a and b
- e. a and c

TA54 SWPPP Quiz (continued)

4. Stormwater runs off TA54 Areas/facilities into which of the following canyons?

- a. Pueblo and Pajarito
- b. Pajarito and Cañada Del Buey
- c. Sandia and Pajarito
- d. Pajarito and Water Canyon

5. Are the canyons answered in question 4, “Impaired Waters”?

- a. Yes (both)
- b. Just one
- c. No (neither)

6. At TA54, which benchmark exceeded its limit for the past several years?

- a. Gross alpha (adjusted)
- b. Aluminum (Total)
- c. Copper
- d. Chemical Oxygen Demand (COD)

7. According to the TA54 SWPPPs, which are MSGP Potential Pollutant sources?

- a. Rusty metal (e.g., Buildings, equipment, drums, debris, etc.)
- b. Oil/fuel from vehicles and equipment
- c. Sediment moved by stormwater flow
- d. All the above

TA54 SWPPP Quiz (continued)

8. Under the Endangered Species Habitat Management Plan (HMP), which endangered species is not found on LANL property?

- a. Jemez Mountain Salamander
- b. New Mexico Silver Spot butterfly
- c. Southwestern Willow Flycatcher
- d. Mexican Spotted Owl

9. Where are general specifications (e.g., not over buried waste) for installing and maintaining erosion and sediment control measures found?

- a. SWPPP Site maps in Attachment B
- b. EWMO Engineering detailed drawings
- c. LANL Best Management Practices (BMP) Guidance
- d. NMED Stormwater Construction Tool box

10. What notification (if any) is required when a Corrective Action Report (CAR) is not closed within 45 days?

- a. EPA notification
- b. NMED notification
- c. LANL notification
- d. No action required—there is 90 days with grace period