Los Alamos County
Los Alamos Wastewater Plant

Los Alamos, Los Alamos County, New Mexico

National Pollution Discharge Elimination System

COMPLIANCE DOCUMENTATION

Stormwater Pollution Prevention Plan & Temporary Erosion Control Plan

October 18, 2016

NPDES PERMIT: NMR050000 NOI - NMR053430

E2RC

INTEGRATED
ENVIRONMENTAL
CONSTRUCTION
ENGINEERING

Design | Comply | Restore

CERTIFIED PROFESSIONAL IN STORM WATER QUALITY
CPSWQ
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NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
10/18/16

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DIVISION 1) INTRODUCTION

This Storm Water Pollution Prevention Plan (SWPPP) provides an engineered design for the industrial operations for **Los Alamos Wastewater Plant.** The plan has been developed as required by the United States Environmental Protection Agency for Phase II of the current National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Region VI Storm Water discharges and in accordance with good engineering practices referenced in the General Permit and defined by the New Mexico Board of Engineering supported by the designer's professional engineering (PE) seal and recognition as a Certified Storm Water Quality Professional (CPSWQ).

This SWPPP recommends appropriate best management practices (BMP'S) and pollution control measures to reduce the discharge of pollutants in storm water runoff. The document provides for periodic review and update of the plan when necessary to ensure it complies with the 'living document intent of the EPA requirements.

This SWPPP documentation:

- Identify potential sources of storm water and non-storm water contamination to the storm water drainage system.
- Recognize Benchmark and Effluent Limitation Requirements as identified by MSGP Monitoring Requirements. This recognition includes measurement and reporting activities
- Design appropriate "source area control" type best management practices designed to prevent storm water contamination from occurring.
- Recommend management practices to reduce pollutants in contaminated storm water prior to discharge by:
    - *Describing the Structural Practices used at the facility* (e.g., sediment control barriers, sediment traps, and temporary or permanent sediment basins, etc.),
    - *Describing of Other Controls* (e.g., waste disposal, procedures to minimize off-site vehicle tracking, dust control, etc.),
- Determine the action(s) needed to either bring non-storm water discharges under compliance or to remove the discharges from the storm drainage system using:
    - *Storm Water Management Controls used for Discharge Management* (e.g., detention or retention structures, vegetated swales, etc.) to be installed during the construction process to reduce pollutants in storm water discharging from the site after construction has been completed,
- Evaluate the SWPPP to ensure it is revised to remain current with changes in Federal, State, Tribal and local regulations.

DIVISION 2) RESPONSIBLE PARTY INFORMATION

Owner: Los Alamos County Department of Public Utilities
1000 Central Avenue Suite 130
Los Alamos, New Mexico 87544
Timothy Glasco, P.E., Utilities Manager
Contact: Katelyn Mahoney, Environmental Compliance Specialist
Office: 505-662-8147
Email: Katelyn.mahoney@lacnm.us

SWPPP Operator: Los Alamos County
1000 Central Avenue Suite 130
Los Alamos, New Mexico 87544
505-662-8269 office

24-Hour Emergency Contact: Los Alamos County
Los Alamos Wastewater Plant
505-662-8269

DIVISION 3) STORM WATER POLLUTION PREVENTION TEAM

Section 3.01 Teams and Responsibility

The storm water pollution prevention team is responsible for developing, implementing, maintaining and revising this SWPPP. The members of the team are familiar with the management and operations of Los Alamos Wastewater Plant.

Los Alamos County is in charge of all aspects of this SWPPP development and implementation at the site and has requested the origination of this SWPPP. E2RC, LLC, is delegated and authorized to originate and design the SWPPP for NPDES Compliance. The Operator(s) are aware their direction to E2RC, LLC to prepare these documents does not supersede their compliance obligations with the NPDES Requirements. The member(s) of the team and their responsibilities (i.e. implementing, maintaining, record keeping, submitting reports, conducting inspections, employee training, conducting the annual compliance evaluation, monitoring for non-storm water discharges, signing the required certifications) are:

NAME	POSITION	RESPONSIBILITY
Katelyn Mahoney	**Environmental Compliance Specialist**	**Signatory Authority; Overall Compliance**
Jeff Ayers	**Wastewater Superintendant**	**Coordinates all components of plan implementation; coordination of employee training program**
E2RC, LLC 505-867-4040	**SWPPP Engineer**	**SWPPP Development Team**
Jennifer Baca	**Wastewater Supervisor**	**Coordinates all components of plan implementation; coordination of employee training program. Signatory Authority**

DIVISION 4) SITE INFORMATION AND RECEIVING WATERS

Project Name: **Los Alamos Wastewater Plant**
Project Number: **N/A**
Project Location: **Bayo Canyon Road**
City: **Los Alamos**
County: **Los Alamos**
State: **New Mexico**
ZIP Code: **87544**

GPS Location: 35° 52' 55"N Latitude 106° 14' 54" W Longitude

Method for determining latitude/longitude:

No GPS

Yes Other: **Google Earth**

Horizontal Reference Datum:

☐ NAD 27 **X** NAD 83 or WGS 84 ☐ Unknown

Section 4.01 Additional Project Information

Is the project/site located on Indian country lands, or located on a property of religious or cultural significance to an Indian tribe?

No

If yes, provide the name of the Indian tribe associated with the area of Indian country (including the name of Indian reservation if applicable), or if not in Indian country, provide the name of the Indian tribe associated with the property:

N/A

If you are conducting earth-disturbing activities in response to a public emergency, document the cause of the public emergency (e.g., natural disaster, extreme flooding conditions), information substantiating its occurrence (e.g., state disaster declaration), and a description of the construction necessary to reestablish effective public services:

N/A

Are you applying for permit coverage as a "federal operator" as defined in Appendix A of the 2015 MSGP?

No

Section 4.02 Description of the Project Discharge Location

Does your project/site discharge stormwater into a Municipal Separate Storm Sewer System (MS4)?

No

Are there any surface waters that are located within 1 linear mile of your facility?

Yes

Are any of the surface waters listed Tier 2, 2.5 or 3 by **the regulating authority**?

No.

Section 4.03 Names of Receiving Waters

The name(s) of the first surface water that receives stormwater directly from your site and/or from the MS4 (note: multiple rows are provided where the site has more than one point of discharge that flows to different surface waters). An MS4 is not considered receiving water. The name of the receiving water to which the MS4 discharges is listed in the second identified water if the project discharges to an MS4 before any other water.

1. **Pueblo Canyon is 0.0 miles from the site. This is a discharge point.**

It is important for the reviewer to note whether or not the waters listed are discharge points. If none of the waters are discharge points then **there isn't discharge offsite (waters are kept onsite) and the listing is provided to demonstrate the Owner and Operator are knowledgeable about the surface waters in proximity of the project.**

Section 4.04 Measures Preventing Discharges Into U.S. Waters With Approved or Established TMDL Analysis:

13020101; Upper Rio Grande Watershed

List the Impaired Waters / TMDLs for each surface water listed in the Receiving Waters Section:

	Is this surface water listed as "impaired"?	What pollutant(s) are causing the impairment?	Has a TMDL been completed?	Title of the TMDL document	Pollutant(s) for which there is a TMDL
1.	**Yes**	**Metals other than Mercury, Radiation, PCBs**	**No**	**N/A**	**N/A**

What method(s) was used to determine whether or not the project site discharges to an impaired water?

EPA My Waters Mapper and SWQB Mapper

Tier 2, 2.5, or 3 Waters Designation for each listed in Receiving Waters

	Is this surface water designated as a Tier 2, Tier 2.5, or Tier 3 water?	If you answered yes, specify which Tier (2, 2.5, or 3) the surface water is designated as?
1.	No	N/A

Coverage under the Multi Sector General Permit is applicable only if the established Total Maximum Daily Load (TMDL) limits have been addressed in the SWPPP. A TMDL is an indicator of maximum pollutant discharges allowed in a watershed to satisfy its water quality standards.

Generally, operation activities produce sediment which may be transported offsite and influence water quality parameters such as turbidity and total suspended solids. Other pollutants may also pertain to TMDL limits.

The EPA regulates TMDL issues in New Mexico to the New Mexico Environmental Department (NMED). The NMED identifies pollutants and TMDL requirements pertinent to this SWPPP.

DIVISION 5) SITE DESCRIPTION

Los Alamos Wastewater Plant will consist of facilitation of industrial activities for a **1.4 Million Gallon Per Day (MGD) Activated Sludge Treatment Facility.**

The facility site area is approximately **5.0** gross acres.

Section 5.01 GENERAL LOCATION MAP

DIVISION 6) ACTIVITIES AT THE FACILITY

The general work at the facility will consist of: Sector T: Treatment Works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR Part 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with section 405 of the CWA

Section 6.01 Industrial Activity and Pollutants

Every site has sources of pollution. Obvious sources of pollution include paving operations, stucco, painting, trash and others. Activities that are pollution sources, naturally, have identifiable pollutants and types of pollutants requiring control.

Proper stormwater management includes listing of the activities, pollutants and locations on the site where special attention must be paid to ensure compliance. The nearby list shows the elements of Potential Pollutions Sources specific to the site at the time the plan was generated.

Industrial Activity	Associated Pollutants
Maintenance Bay	Cleaning and Solvents
Vehicle Parking	Motor Oil, Diesel Fuel, Antifreeze, Engine Fluids
Equipment Maintenance	Motor Oil, Diesel Fuel, Antifreeze, Gear Oil, Engine Fluids
Trash Dumpster	Commercial Trash
Sludge Removal/ Belt Process	Sludge Sewage/Sediment
Entrance Works	Raw Sewage

Section 6.02 Spills and Leaks

Areas of Site Where Potential Spills/Leaks Could Occur

Location	Discharge Points
Entrance Works	N/A Area drains to Plant Headworks
Aeration Blower Bldg	N/A all activity is completed indoors
Aeration Basin	N/A Drop Inlets in this area are protected with straw bales to prevent contaminated discharge from leaving the site through outfall 006
Secondary Clarifiers	N/A Drop Inlets in this area are protected with straw bales to prevent contaminated discharge from leaving the site through outfall 005 and 004
Recirculation/Waste Pump Building	N/A all activity is completed indoors and drain to plant headworks.
Solids Reduction Process	N/A all activity is completed indoors and drain to plant headworks.
Gravity Thickener/Belt Filter Press	N/A all activity is completed indoors and drains to sand filter.

Description of Past Spills/Leaks

Date	Description	Outfalls
Present	No spills in the last 4 years	001-006

Section 6.03 Salt Storage

Do any storage piles containing salt or deicing materials exist at the site? No Describe the location of the pile?

Salt Piles	Location
N/A	N/A

Section 6.04 Unauthorized Non-Stormwater Discharge Documentation

DATE OF EVALUTATION	CRITERIA USED	DRAINAGE POINTS OBSERVED	ACTION TAKEN
[Date of Evaluation]	**[Criterion Used]**	**[Drainage Points Observed]**	**[Action Taken]**

AREAS OBSERVED
[Area 1 Info]
[Area 2 Info]
[Area 3 Info]

Section 6.05 Sampling Data Summary

Sampling Data can be found under the Sampling Data Section of this plan.

Section 6.06 Sector Specific Benchmarks

Per section **Part 8** of the 2015 Multi-Sector General Permit the following benchmarks apply to both the primary industrial activity at this site as well as any co-located industrial activities.

SUBSECTOR	PARAMETER	BENCHMARK MONITORING CONCENTRATION
T- Treatment Works	N/A	N/A

DIVISION 7) STORMWATER CONTROL MEASURES

Section 7.01 Minimize Exposure

The following practices will be immediately used to minimize the exposure of industrial activities due to rain, snow, snowmelt, and runoff:

Use spill/overflow protection equipment.

Use drip pans and absorbents under or around leaky vehicles and equipment or store indoors where feasible.

Locate materials, equipment, and activities so that leaks are contained in the existing containment and diversion systems (confine the storage of leaky or leak prone vehicles and equipment awaiting maintenance to protected areas).

Use Straw Bales, Rip Rap, and Wattles at Drop Inlets to prevent contaminated run off.

Clean up spills and leaks promptly using dry methods to prevent the discharge of pollutants.

The contents of each tank or drum is clearly labeled on the outside of the tank or drum.

Appropriate Hazard Communication signage is in place at each tank or drum where applicable.

Drain fluids from equipment and vehicles prior to on-site storage or disposal.

Section 7.02 Good Housekeeping

Trash Dumpster Area: Inspect Monthly- Clean and Sweep as needed

Parking Area: Inspect Monthly- Clean and Sweep as needed

Sludge Loading Area: Inspect Monthly- Clean and Sweep as needed

The material inventory is kept up to date, and all containers are labeled with the name, type of substance, and stock number.

Section 7.03 Maintenance

Team Coordinator will regularly inspect, test, maintain, and repair all industrial equipment and systems to avoid situations that may result in leaks, spills, and other releases of pollutants.

GOOD HOUSEKEEPING: Disposal of waste materials is scheduled weekly. Quarterly inspections for leaks and conditions of drums, tanks, and containers.

MAINTENANCE: Regular inspections, testing, maintenance, and repair of all industrial equipment, systems, and control measures to avoid situations that may result in leaks, spills, or any other releases.

DIVISION 8) ENDANGERED OR THREATENED SPECIES

Criterion A, per Appendix E of the Permit, is utilized under the application for permitting purposes to support this documentation.

Measures were taken to determine the potential effects of potential storm water runoff and facility related activities on federally listed endangered or threatened species as required by Addendum E of the Multi Sector General Permit. Formal contact, if required by a determination of the USFWS Critical Habitat Mapping Tool – http://criticalhabitat.fws.gov/crithab/, was made with:

Ecological Services Field Office
US Fish and Wildlife
2105 Osuna NE
Albuquerque, NM 87113

Supporting Documentation

The Endangered Species and Cultural Properties Section of the Plan includes the documentation required to support the selected Criterion. The requirements for each applicable eligibility criterion available from the listing in Appendix E are:

For criterion A, indicate the basis for your determination that no federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in your site's action area (as defined in Appendix A of the permit). Check the applicable source of information you relied upon:

X Specific communication with staff of the U.S. Fish & Wildlife Service or National Marine Fisheries Service. E2RC contacted U.S. Fish & Wildlife Service, New Mexico Ecological Field Services to assist with this determination.

X Publicly available species list. Documentation is found in the Protected Entities Section of this Binder.

X Other source: **http://criticalhabitat.fws.gov/crithab/**, a copy of the map for the area is included in the Protected Entities Section of this Binder.

For criterion B, provide the Tracking Number from the other operator's notification of permit authorization:

N/A.

If this selection is used a brief summary of the basis used by the other operator for selecting criterion A, B, C, D, or E is required to be included.

For criterion C, provide the following information:

- **Criterion Not Selected**
  The basis used for this selection to support the choice that the site's discharges and discharge-related activities are not likely to adversely affect listed species or critical habitat is: U.S. Fish and Wildlife Service, IPaC Trust Resource Report.

For criterion D or E, copies of any letters or other communication between E2RC and the U.S. Fish & Wildlife Service or National Marine Fisheries Service concluding consultation or coordination activities will be found in the Protected Entities Section of the Binder.

Criterion was not chosen.

For reference purposes, the eligibility criteria listed in Appendix E are:

Criterion A. No federally listed threatened or endangered species or their designated critical habitat(s) are likely to occur in the "action area" as defined in Appendix A. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. You must also provide a description of the basis for the criterion you selected on your NOI form and provide documentation supporting your eligibility determination in your SWPPP.

Criterion B. Your industrial activity's discharges and discharge-related activities were already addressed in another operator's valid certification of eligibility for your action area under this permit and there is no reason to believe that federally listed species or designated critical habitat not considered in the prior certification may be present or located in the "action area" (e.g., due to a new species listing or critical habitat designation). To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. There must be no lapse of NPDES permit coverage in the other operator's certification. You must also comply with any additional measures that formed the basis of the other operator's valid certification of eligibility to ensure that your discharges and discharge-related activities are protective of listed species and/or critical habitat. You must include in your NOI the NPDES ID (i.e., permit tracking number) assigned to the other operator's authorization under this permit, and a description of the basis for the criterion selected on your NOI form, including the eligibility criterion selected by the other operator's certification. You must also provide any documentation in your SWPPP that supports the other operator's eligibility determination, including any additional measures that formed the basis of the other operator's eligibility determination.

Criterion C. Federally listed threatened or endangered species or their designated critical habitat(s) are likely to occur in or near your facility's "action area," and your industrial activity's discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or critical habitat. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E, including completion of the *Criterion C Eligibility Form*, which you must submit to EPA at least 30 days prior to filing your NOI for permit coverage. After evaluation of your *Criterion C Eligibility Form*, EPA may require additional measures that you must implement to avoid or eliminate likely adverse effects on listed species and critical habitat from discharges and discharge-related activities. You may submit your NOI for permit coverage 30 days after submitting to EPA your completed *Criterion C Eligibility Form*. You must also provide a description of the basis for the criterion you selected on your NOI form and provide documentation supporting your eligibility determination in your SWPPP.

Criterion D. Consultation between a Federal Agency and the U.S. Fish and Wildlife Service and/or the Consultation between a Federal Agency and the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service under section 7 of the Endangered Species Act (ESA) has been concluded. Consultations can be either formal or informal, and would have occurred only as a result of a separate federal action (e.g., during application for an individual wastewater discharge permit or the issuance of a wetlands dredge and fill permit), and consultation must have addressed the effects of the industrial activity's discharges and discharge-related activities on all federally listed threatened or endangered species and federally designated critical habitat. The result of this consultation must be one of the following:

i. A biological opinion that concludes that the action in question (taking into account the effects of your facility's discharges and discharge-related activities) is not likely to jeopardize the continued existence of listed species, or result in the destruction or adverse modification of critical habitat;

ii. A biological opinion that concludes that the action is likely to jeopardize listed species or to result in the destruction or adverse modification of critical habitat, and any recommended reasonable and prudent alternatives or reasonable and prudent measures are being implemented; or

iii. Written concurrence from the applicable Service(s) with a finding that your facility's discharges and discharge-related activities are not likely to adversely affect listed species or critical habitat.

To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. You must verify that the consultation does not warrant reinitiation under 50 CFR §402.16. If reinitiation of consultation is required, in order to be eligible under this criterion you must ensure consultation is reinitiated and the result of the consultation must be consistent with (i), (ii), or (iii) above.

If eligible, you must also provide supporting documentation for your determination in your NOI and SWPPP, including the Biological Opinion (or PCTS tracking number) or concurrence letter.

Criterion E. Your industrial activities are the subject of a permit under section 10 of the ESA, and this authorization addresses the effects of your facility's discharges and discharge-related activities on federally listed species and designated critical habitat. To certify your eligibility under this criterion, you must use the *Criterion Selection Worksheet* in Part E.4 of Appendix E. You must also provide supporting documentation for your determination in your NOI and SWPPP, including a copy of the permit from the Services.

DIVISION 9) PRESERVATION OF HISTORICAL SITES

It is important for the operators to recall the intent of the NPDES program is to prevent degradation of the Waters of the US. Owners and Operators are expected to maintain and improve, if possible, the quality of the surface Waters of the US. Additionally, it is important to ensure locations designated as historically valuable are protected and preserved during the construction process.

Appendix E of the Permit lists specific requirements to determine the effect of in ground storm water controls on a historic property. This is a 'screening process' intended to identify if 'ground disturbing storm water controls' will be used. **If the site will not contain any ground disturbing storm water controls then the reader is directed review the listing of sites in Sierra County placed in the Historic Register provided in the Endangered Species and Cultural Properties section.**

The screening process stops at the successful completion of the appropriate step in the procedure.

Are any of the following stormwater controls installed at the site?

Yes.

Dike – No
Berm – No
Catch Basin – No
Pond – No
Stormwater Conveyance Channel (e.g., ditch, trench, perimeter drain, swale, etc.) – Yes
Culvert – Yes
Other type of ground-disturbing stormwater control: N/A.

If **none** of the controls shown in the list have been selected the screening process is complete.

Step 1

Is this an existing facility that is reapplying for certification under the 2015 MSGP?

Yes

Step 2

Are you constructing or installing any stormwater control measures that require subsurface disturbance of less than one (1) acre?

No

- If no, no further documentation is required.

Step 3

Have prior surveys or evaluations conducted on the site already determined that historic properties do not exist, or that prior disturbances at the site have precluded the existence of historic properties?

No

- If no, proceed to Appendix F, Step 4.

Step 4

SHPO is the name of the controlling office for Historic Preservation used for this determination? The office **did not** respond to our request within 15 calendar days indicating whether the subsurface earth disturbances caused by the installation of the stormwater controls would affect historic properties?

If no reply was received then no further documentation is required. The procedure has been completed.

If yes, describe the nature of their response:

No written indication that adverse effects to historic properties from the installation of stormwater controls can be mitigated by agreed upon actions has been received.

No agreement has been reached regarding measures to mitigate effects to historic properties from the installation of stormwater controls.

X other supporting information has been used since neither written indication has been provided nor an agreement has been made.

DIVISION 10) EROSION AND SEDIMENT CONTROLS

Section 10.01 Polymers and Chemicals

Polymers and Chemicals will not be used at this facility for Erosion and Sediment Control?

No

Section 10.02 Description of Site Controls and BMP Selections

The use of best management practices designed to prevent storm water from becoming contaminated by the 2.54 acres of this site will be used to the maximum extent practical. Storm water management controls, best management practices (BMP'S), will be implemented to reduce the amount of pollutants in storm water discharged from Wastewater Treatment Plant as defined in this SWPPP.

Control or Practice	Area Implemented
Wattles	Drop Inlets
Straw Bales	Drop Inlets
Rip Rap	Drop Inlets, Channels, Slopes

Section 10.03 Management of Runoff

Stormwater flows are directed to drop inlets on the site. The drop inlets are protected with straw bales and wattle to prevent contaminated stormwater from leaving the site. Onsite erosion is not possible as there is pavement and concrete around all structures where possible runoff could occur. Stormwater flow on the immediate southwest side of the facility is channeled with rip rap. Water from this area has not been on the actual site. Stormwater that enters the protected drop inlets flow to outfalls 001-005 and exit into Pueblo Canyon.

Section 10.04 Waste, Garbage and Floatable Debris

This Facility will maintain all exposed areas that are potential sources of pollution using the following schedule:

Area	Schedule
Entire Site for erosion and stormwater discharge, evidence of leaks	Weekly

Section 10.05 Dust Generation and Vehicle Tracking of Industrial Materials

All raw, final, or waste materials are contained in areas which drain to the plant headworks with the exception of the trash dumpster area, which is maintained monthly.

Section 10.06 Sector-Specific Non-Numeric Effluent Limits

Sector T- Treatment Works

Sanitary and industrial wastewater and equipment and vehicle wastewater are not authorized by this permit.

Additional Technology-Based Effluent Limits

Control Measures: All grit, screenings, and solids are contained in areas which drain back to the plant headworks.

Employee Training: Training will address petroleum product management, process chemical management, spill prevention controls, fuels procedures, general good housekeeping practices, and proper procedures for using fertilizer, herbicides, and pesticides.

Section 10.07 Numeric Effluent Limitations Based on Effluent Limitations Guidelines

This Facility **is not** an industrial category subject to any of the Effluent Limitations Guidelines in Table 2-1 of the 2015 MSGP.

Regulated Activity	40 CFR Part/Subpart	Effluent Limit
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	Part 429, Subpart I	See Part 8.A.7
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	Part 418, Subpart A	See Part 8.C.4
Runoff from asphalt emulsion facilities	Part 443, Subpart A	See Part 8.D.4
Runoff from material storage piles at cement manufacturing facilities	Part 411, Subpart C	See Part 8.E.5
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	Part 436, Subparts B, C, or D	See Part 8.J.9
Runoff from hazardous waste landfills	Part 445, Subpart A	See Part 8.K.6
Runoff from non-hazardous waste landfills	Part 445, Subpart B	See Part 8.L.10
Runoff from coal storage piles at steam electric generating facilities	Part 423	See Part 8.O.8
Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	Part 449	See Part 8.S.8

DIVISION 11) CHEMICAL TREATMENT

Chemical treatment is not employed as a BMP on this project.

DIVISION 12) DEWATERING PRACTICES

Dewatering is not required on this project.

DIVISION 13) SPILL PREVENTION AND RESPONSE

The discharge or spill of hazardous substances is not expected to occur due to or during facility operation activities. The project and its activities are not expected to use any substance in a manner or quantity that might require the reporting of a release in excess of reportable quantities.

Spill Prevention and Response Procedures
Plainly label all chemical containers and store them indoors or under cover
No Vehicle Fueling Onsite
Report any spills to Plant Manager or Designee
Annual Spill Response Training of Employees
Report spills to NMED

Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, occurs during a 24-hour period,

The Operator Will:	Time Action Required	Responsible Employee Onsite
Stop the source of the spill	**Immediate**	**WWTP Superintendent**
Contain the spill utilizing (compost) mulch socks or soil berms	**Immediate**	**WWTP Superintendent**
Clean up the spill	**Once Spill is Contained**	**WWTP Superintendent**
Dispose of material contaminated by the spill in an approved disposal site	**Within 24 Hours**	**WWTP Superintendent**
Notify both the National Response Center (1-866-428-6535) and the New Mexico Environment's Hazardous and Radioactive Materials Bureau (1-505-827-4300) providing a release of hazardous materials in excess of reportable quantities has occurred.	**Within 24 Hours**	**Environmental Compliance Specialist**
Submit a description of the incident to the appropriate authorities (SWQB)	**14 Calendar Days**	**Environmental Compliance Specialist**
Modify SWPPP, if appropriate, and identify prevention measures.	**14 Calendar Days**	**E2RC, LLC**

State or local requirements may necessitate reporting spills or discharges to local emergency response, public health, or drinking water supply agencies. Contact information must be in locations that are readily accessible and available.

Location 1	Location 2	Location 3
Administration/Lab Building	**Entrance Works**	**Solids Production**

This site does not require a Spill Prevention Control and countermeasure (SPCC) plan. If a plan is required it will be found in a separate binder at the Facility Operator's office.

DIVISION 14) HAZARDOUS OR TOXIC WASTE

Purpose: To minimize or eliminate the discharge of hazardous wastes from construction sites to storm drains, gutters, watercourses and drainage channels.

Application:

- Petroleum products
- Asphalt products
- Concrete products
- Herbicides and pesticides
- Acids for cleaning masonry
- Soil stabilization chemicals
- Septic wastes
- Paints, solvents, stains and wood preservatives
- Materials that were used to treat or adsorb other wastes
- Hazardous construction wastes such as lead, asbestos, or lead paint

Limitations:

- Does not address preexisting contamination or site assessments.
- Large spills or other serious hazardous wastes require immediate response from specialists.
- Contractor is required to follow all federal, state and local laws regarding handling, storing, and transporting waste materials.

Standards and Specifications:

- Waste containers shall be constructed of a suitable material and properly labeled according to regulations. Labels must include type of material, time of collection and site location.
- Temporary containment for stored materials should be sized at 1.5 times the volume of the stored material. Materials must be stored in sealed drums.
- Temporary containment areas shall be free of accumulated storm water and spills.
- Temporary containment areas shall have room between containers for emergency response and cleanup.
- Incompatible materials shall be stored separately.
- Do not store different materials in the same container.

- Do not locate temporary containment areas near storm drains, gutters, watercourses or drainage channels.
- Provide adequate access to temporary containment areas.
- Store containers on pallets under a covered, protected area unless containers are watertight.
- Do not dispose of liquid waste in dumpsters or other solid waste containers.
- Collect water from decontamination procedures, treat it and dispose of it at an appropriate disposal site.
- Educate employees and subcontractors in waste storage and disposal. Ensure that proper procedures are followed.
- Immediately repair all dikes and liners used for storage or containment.
- Recycle materials if appropriate.

Inspection and Maintenance:

- Ensure that all wastes are properly labeled and stored.
- Verify that all hazardous wastes are disposed of properly.
- Hazardous wastes must be collected, labeled and disposed of at authorized disposal sites.
- Keep supplies on-site for cleanup of spills.
- Post MSDS sheets for all materials stored on-site.
- Immediately repair all dikes and liners used for storage or containment.

References: General Site Management. City of Elko, NV, 2005.

DIVISION 15) INSPECTIONS AND CORRECTIVE ACTIONS

Section 15.01 Personnel Responsible for Inspections

Inspector Name	Phone
WWTP Superintendant	**505-662-8269**
WWTP Supervisor	**505-662-8269**
WWTP Senior Operator	**505-662-8269**
WWTP Operator	**505-662-8269**
WWTP Apprentice II	**505-662-8269**
WWTP Apprentice I	**505-662-8269**
WWTP Trainee	**505-662-8269**

Note: All personnel conducting inspections must be considered a "qualified person." MSGP Appendix A clarifies that a "qualified person" is a person knowledgeable in the principles and practices of industrial stormwater controls and pollution prevention, who possesses the education and ability to assess conditions at the industrial facility that could impact stormwater quality, and the education and ability to assess the effectiveness of stormwater controls selected and installed to meet the requirements of this permit.

E2RC encourages inspectors to be certified by AGC, Envirocert International or CISEC. Each of these providers has developed an instruction platform supported by an examination to ensure the inspector is able to perform inspections according to the listed requirements.

Section 15.02 Required Corrective Action Log

Completing a corrective action report/log is required by EPA. **A log is included in the Site Housekeeping section of this plan.** The operator or owner will utilize the Inspection Report to identify the areas where corrective actions are required. The Inspection Report will list the the following:.

Description of the condition triggering the need for corrective action review. For any spills or leaks, include the following information: a description of the incident including material, date/time, amount, location, and reason for spill, and any leaks, spills or other releases that resulted in discharges of pollutants to waters of U.S., through stormwater or otherwise;

Date the condition was identified;

Description of immediate actions taken pursuant to Part 4.3.1 to minimize or prevent the discharge of pollutants. For any spills or leaks, include response actions, the date/time clean-up completed, notifications made, and staff involved. Also include any measures taken to prevent the reoccurrence of such releases (see Part 2.1.2.4); and

A statement signed and certified in accordance with Appendix B, Subsection 11 of the 2015 MSGP.

Section 15.03 INSPECTION SCHEDULE

(A) Routine Facility Inspection Frequency

During normal facility operating hours you must conduct inspections of areas of the facility covered by the requirements in this permit, including, but not limited to, the following:

Areas where industrial materials or activities are exposed to stormwater;

Areas identified in the SWPPP and those that are potential pollutant sources (see Part 5.2.3);

Areas where spills and leaks have occurred in the past three years;

Discharge points; and

Control measures used to comply with the effluent limits contained in this permit.

Inspections must be conducted at least quarterly (i.e., once each calendar quarter), or in some instances more frequently (e.g., monthly). Increased frequency may be appropriate for some types of equipment, processes and stormwater control measures, or areas of the facility with significant activities and materials exposed to stormwater. At least once each calendar year, the routine inspection must be conducted during a period when a stormwater discharge is occurring.

Inspections must be performed by qualified personnel with at least one member of your stormwater pollution prevention team participating. Inspectors must consider the results of visual and analytical monitoring (if any) for the past year when planning and conducting inspections.

During the inspection you must examine or look out for the following:
Industrial materials, residue or trash that may have or could come into contact with stormwater;

Leaks or spills from industrial equipment, drums, tanks and other containers;

Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site;

Tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas;

Control measures needing replacement, maintenance or repair.

During an inspection occurring during a stormwater event or discharge, control measures implemented to comply with effluent limits must be observed to ensure they are functioning correctly. Discharge points must also be observed during this inspection. If such discharge locations are inaccessible, nearby downstream locations must be inspected.

(B) Quarterly Visual Assessment of Stormwater Discharges

Once each quarter for the entire permit term, you must collect a stormwater sample from each outfall (except as noted in Part 3.2.3) and conduct a visual assessment of each of these samples. These samples are not required to be collected consistent with 40 CFR Part 136 procedures but must be collected in such a manner that the samples are representative of the stormwater discharge.

Guidance on monitoring is available at http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-PermitMSGP.cfm. The visual assessment must be made:

Of a sample in a clean, colorless glass or plastic container, and examined in a well-lit area;

On samples collected within the first 30 minutes of an actual discharge from a storm event. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample must be collected as soon as practicable after the first 30 minutes and you must document why it was not possible to take the sample within the first 30 minutes. In the case of snowmelt, samples must be taken during a period with a measurable discharge from your site; and

For storm events, on discharges that occur at least 72 hours (three days) from the previous discharge. The 72-hour (three-day) storm interval does not apply if you document that less than a 72-hour (three-day) interval is representative for local storm events during the sampling period.

You must visually inspect or observe the sample for the following water quality characteristics:

• Color;

• Odor;

• Clarity (diminished);

• Floating solids;

• Settled solids;

• Suspended solids;

• Foam;

• Oil sheen; and

• Other obvious indicators of stormwater pollution.

Whenever the visual assessment shows evidence of stormwater pollution, you must initiate the corrective action procedures in Part 4 of the 2015 MSGP.

Section 15.04 Inspection Report Forms

A copy of the inspection form is included in the Completed Inspection section of the plan.

Section 15.05 Personnel Responsible for Corrective Actions

Jeff Ayers is the person responsible for coordinating corrective action activities.

DIVISION 16) MONITORING

N/A Monitoring is not required for Sector T-TW

DIVISION 17) DELEGATION OF AUTHORITY

The EPA accepted delegation of authority letter(s) is included in the **Authorizations and Inspection Qualifications** section of the plan.

DIVISION 18) TRAINING

Employee training is a major component in ensuring the success of the project's SWPPP. The more knowledgeable all employees are about the project's SWPPP and what is expected of them, the greater the potential that the plan is successful.

The succeeding section from the 2015 MSGP is included for clarity in the requirement and application of the rule regarding training:

'Part 2.1.2.8 of the 2015 MSGP describes the training requirements for all members of the stormwater team to ensure that they understand the permit requirements and their specific responsibilities with respect to those requirements.

Part 2.1.2.8 requires the following members of the stormwater team to receive training:

- Personnel who are responsible for the design, installation, maintenance, and/or repair of stormwater controls (including pollution prevention measures);
- Personnel responsible for the application and storage of treatment chemicals (if applicable);
- Personnel who are responsible for conducting inspections; and
- Personnel who are responsible for taking corrective actions

Personnel must be trained in at least the following if related to the scope of their job duties (e.g., only personnel responsible for conducting inspections need to understand how to conduct inspections):

- An overview of what is in the SWPPP;
- Spill response procedures, good housekeeping, maintenance requirements, and material management practices;
- The location of all controls on the site required by this permit, and how they are to be maintained;
- The proper procedures to follow with respect to the permit's pollution prevention requirements; and
- When and how to conduct inspections, record applicable findings, and take corrective actions.

The permit requires training to have occurred "**for all employees who work in areas where industrial materials or activities are exposed to stormwater or who are responsible for implementing activities necessary to meet the conditions of this permit."** you must ensure that the personnel understand the requirements of this permit and their specific responsibilities…'

STORM WATER POLLUTION PREVENTION PLAN

I verify, under penalty of law, this document and all attachments were prepared at the request of the operator(s) under my direction and 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.

The Stormwater Pollution Prevention Plan prepared by:

E2RC, LLC

Sealed: _____ **Date:** 10/18/16

Kelley V. Fetter, P.E., CPSWQ
E2RC, LLC
439 S. Hill Road
Bernalillo, NM 87004
505-867-4040

By my signature, E2RC, LLC is delegated and authorized to originate and develop this Storm Water Pollution Protection Plan (SWPPP) for Los Alamos Wastewater Plant to meet the National Pollution Discharge Elimination System (NPDES) compliance requirements.

SITE OPERATOR – EXECUTION OF DAILY ACTIVITIES (e.g. Contractors)

Los Alamos County

Site Operator: _____ Date: 2-13-17

By: Jeff Ayers, WWTP Superintendant

SITE OPERATOR – PLAN CONTROL AND DIRECTION (e.g. Agencies, Engineers, Owners)

Los Alamos County Department of Public Utilities

Owner: _____ Date: 1-27-17

By: Timothy Glasco, P.E. , Utilities Manager

Disclaimer

The decisions of operational control and implementation of BMP'S by the Operator(s) of the project, Los Alamos Wastewater Plant and components of the construction are the responsibility of the listed operators. E2RC, LLC and the Engineer are not liable for the operational decisions of the Operator(s) or the failure of the same to follow the recommendations outlined in the SWPPP documentation. The operator(s) agree to hold E2RC, LLC or the Engineer harmless for any potential violations the Operator(s) may receive for violations from regulatory agencies such as federal governments, city governments, the State, or EPA. E2RC, LLC offers to answer inquiries on the preparation and recommendations made therein including the defense of such recommendations or preparations to any regulatory agencies.

By accepting the SWPPP, the operator(s) accept the disclaimer and its conditions.

REVISIONS TO THE STORM WATER POLLUTION PREVENTION PLAN

Date	Description of Revision	Authorized Signature

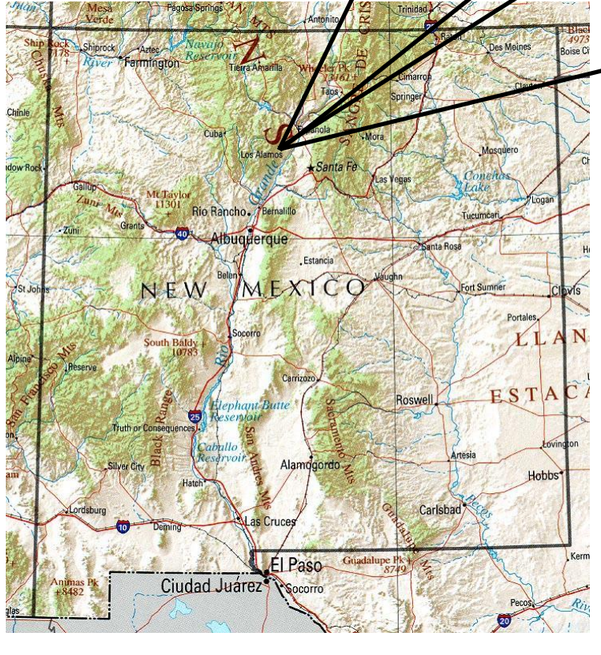
LOS ALAMOS COUNTY, DEPT. OF PUBLIC UTILITIES
LOS ALAMOS WWTP
LOS ALAMOS, NM
SWPPP

LOS ALAMOS WWTP

TEMPORARY SEDIMENT AND EROSION CONTROL DRAWINGS

LOS ALAMOS, LOS ALAMOS COUNTY, NM

DRAWING INDEX



INTEGRATED ENVIRONMENTAL CONSTRUCTION ENGINEERING

E2RC

Design | Comply | Restore

CERTIFIED PROFESSIONAL IN STORM WATER QUALITY
CPSWQ
Kelley Vincent Fetter
No. 0682

KELLEY VINCENT FETTER
NEW MEXICO
34340
REGISTERED PROFESSIONAL ENGINEER

CERTIFIED PROFESSIONAL IN STORM WATER QUALITY
CPSWQ

No	Revision Item	Date

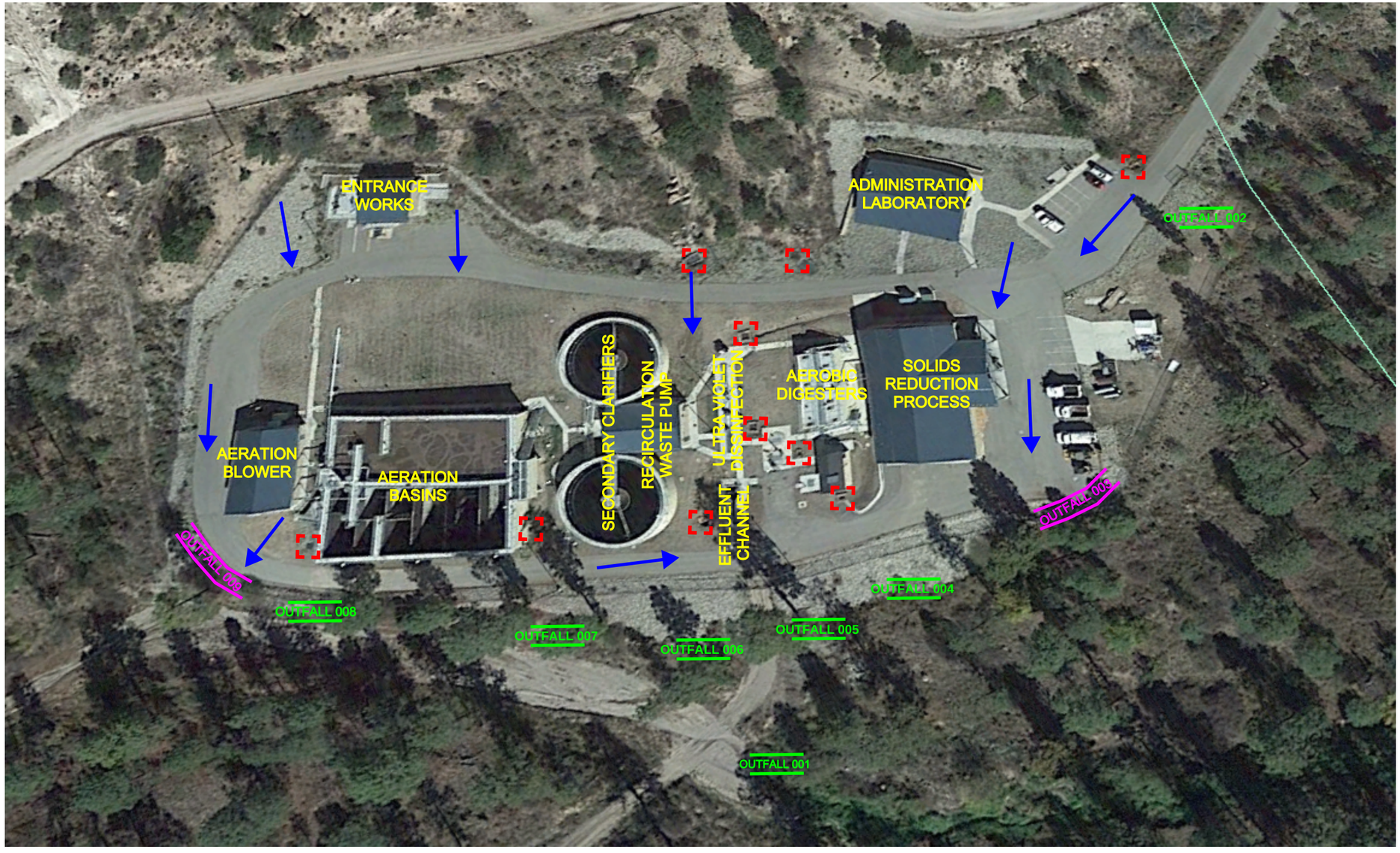
E2RC INTEGRATED ENVIRONMENTAL CONSTRUCTION ENGINEERING

Design | Comply | Restore

LOS ALAMOS WWTP
LOS ALAMOS, LOS ALAMOS COUNTY, NM

COVER SHEET

DRAWN: C. DURKIN
DATE: 10/19/2016
DRAWING NO: 1



INLET

PIPE OUTFALL

RUNOFF OUTFALL

NOTE: ALL DROP INLETS ARE PROTECTED WITH STRAW BALES AND OR MULCH SOCKS. RUNOFF OUTFALL IS PROTECTED WITH MULCH SOCKS AND RIP RAP. SEDIMENT IS VERY UNLIKELY TO REACH ANY OUTFALL. SITE ALSO HAS RIP RAP AT ALL OUTFALLS.

N

1. RECEIVING WATER = LOS ALAMOS CANYON THENCE RIO GRANDE SEGEMENT 20.6.4.98
2. GPS COORDINATES = 35.8819, -106.2483
3. GROSS AREA = 5.0 ACRES

No	Revision Item	Date

KELLEY VINCENT FETTER NEW MEXICO 13490 REGISTERED PROFESSIONAL ENGINEER 10/19/16

CERTIFIED PROFESSIONAL CPSWQ IN STORM WATER QUALITY

E2RC INTEGRATED ENVIRONMENTAL CONSTRUCTION ENGINEERING
Design | Comply | Restore

LOS ALAMOS WWTP
LOS ALAMOS, LOS ALAMOS COUNTY, NM

STORM WATER POLLUTION PREVENTION PLAN

DRAWN: C. DURKIN

DATE: 10/19/2016

DRAWING NO: 2

THE COMPOST FACILITY IS OFFSITE FROM THE WASTEWATER PLANT PROPER. NO OUTFALL EXISTS FOR THE COMPOSTING OPERATION.
NOTE: PER 8.T.2.1 AND 8.T.2.2 OF THE EPA MSGP, THIS FACILITY IS NOT REQUIRED TO HAVE PERMIT COVERAGE.

1. RECEIVING WATER = LOS ALAMOS CANYON THENCE RIO GRANDE SEGEMENT 20.6.4.98
2. GPS COORDINATES = 35.8830, -106.2408
3. GROSS AREA = 8.0 ACRES

No	Revision Item	Date

N

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WESLEY VINCENT FETTER — NEW MEXICO — 13455 — REGISTERED PROFESSIONAL ENGINEER

CERTIFIED PROFESSIONAL — CPSWQ® — IN STORM WATER QUALITY®

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LOS ALAMOS WWTP
LOS ALAMOS, LOS ALAMOS COUNTY, NM

STORM WATER POLLUTION PREVENTION PLAN

DRAWN	DRAWING NO
C. DURKIN	3
DATE	
10/19/2016	