



ESHID-601185

STORM WATER POLLUTION PREVENTION PLAN

R-67/CrCH-6 Well Drilling Project Los Alamos National Laboratory

a requirement of the
NPDES GENERAL PERMIT
for Storm Water Discharges From Construction Activities

Prepared By:

Los Alamos National Laboratory
Environmental Protection Division, Compliance Programs Group
(ENV-CP)

Revision 0: 6-18-15



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STORM WATER POLLUTION PREVENTION PLAN
R-67/CrCH-6 Well Drilling Project
LOS ALAMOS NATIONAL LABORATORY

PREFACE

The United States Environmental Protection Agency (EPA) has issued a final 2012 Construction General Permit (CGP) that covers discharges of stormwater from construction sites.

The 2012 National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges from Construction Activity (Appendix E) includes the following requirements:

- conduct a critical habitat and threatened/endangered species study;
- develop and implement a Storm Water Pollution Prevention Plan (SWPPP) in accordance with good engineering practices;
- submit a Notice of Intent (NOI);
- install and maintain erosion and stormwater controls, Best Management Practices (BMPs);
- perform and document storm water inspections during construction and site stabilization;
- amend the SWPPP as necessary;
- submit a Notice of Termination (NOT) following project completion and final stabilization of disturbed areas.

Authorization to discharge storm water is required under this Permit for both large and small construction projects disturbing more than one (1) acre or part of a larger common plan of development that collectively disturbs more than one (1) acre.

All parties that meet the definition of Operator must be permitted. Each permittee is not required to develop and implement a separate SWPP Plan. It is required that there be at least one SWPP Plan for a site that incorporates the required elements for all Operators.

The 2012 CGP number for New Mexico (Region 6) is NMR120000. This Plan, which has been developed for LANL and its subcontractor(s), describes the nature and sequencing of construction activities, potential sources of pollution, and identifies the Best Management Practices (BMPs) to minimize the potential for erosion and storm water pollution. The Plan was developed in accordance with the provisions of the Clean Water Act (33 U.S.C. § 1251 et seq., as amended by the Water Quality Act of 1987, P.L. 100-4), and the regulations established by the U.S. Environmental Protection Agency (EPA) for National Pollutant Discharge Elimination System (NPDES) General Permits for Storm Water Discharges From Construction Activities.

**R-67/CrCH-6 Well Drilling Project
STORM WATER POLLUTION PREVENTION PLAN
LANL
CERTIFICATION STATEMENT**

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

Delegation of Authority Letter, NOI in Appendix E.

Organization: Los Alamos National Security, LLC (Los Alamos National Laboratory)
Contact: Michael Alexander
Title: Operations Manager



(Signature)

June 22, 2015

(Date)

1. PROJECT INFORMATION

This SWPPP covers aquifer pump and test work being conducted under a larger ongoing common plan of development for the Regional Wells (R-wells) Project. The R-Wells Project involves the construction and stabilization of well pads for drilling Regional, Deep, Intermediate, and Alluvial wells located within Los Alamos National Laboratory (LANL) and adjacent areas.

CrCH-6/R-67 will be drilled to a depth of approximately 2,000 ft. in an existing stabilized area referred to as the borrow pit in Technical Area (TA) 61 within LANL property just south of TA-53 LANSCE and adjacent to E. Jemez Road (truck route) on the north slope of Sandia Canyon.

1.1. Operators

The “operator” of a storm water discharge associated with construction activity is the individual or party responsible for applying to the EPA for NPDES Permit coverage. The EPA defines an “operator” to be anyone who meets either of the following two criteria:

- 1) Has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications, or
- 2) Has day-to-day operational control of project activities.

The permittee with day-to-day operational control over the construction plans and specifications (including the ability to make modifications to those plans) and with control of project activities and implementation of this Plan is:

Los Alamos National Security, LLC (LANS)
 Los Alamos National Laboratory (LANL)
 Los Alamos, NM 87545
 Contact: Johnny Salazar

The Operators must implement and maintain BMPs in the manner specified in the SWPPP. Operators shall ensure that project plans and specifications meet the minimum requirements of this SWPP Plan. Operators shall comply with the terms and conditions of the permit. Operators will implement the SWPPP until final stabilization is complete or the notice of termination (NOT) has been submitted along with another operator’s NOI submission in accordance with Appendix I Section I.11.3 of the CGP addressing changes to authorization.

1.2. Stormwater Team

A Stormwater Team comprised of members consists of personnel from each operator who are responsible for overseeing the development of this SWPPP, any modifications to the SWPPP and for compliance with the requirements of the 2012 CGP.

Operator	Name	Title	Contact	Responsible for:
LANL ENV-CP	See Inspector List App J	Inspector	667-0666	Inspections, SWPPP Modifications, identifying corrective actions
LANS	Michael Alexander	Operations Mgr.	665-4752	Certifying SWPPP. Implementing SWPPP and Corrective Actions, and signing inspections
LANS	Johnny Salazar	Shift Operations Manager	667-1997	Implementing SWPPP and Corrective Actions
LANS	Ryan Romero	Shift Operations Manager	665-9735	Implementing SWPPP and Corrective Actions
LANL	Steve Trujillo	LOG-SUP:	667-6111	Implementing SWPPP

		LOGISTICS SUPERINTENDENT		and Corrective Actions
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SWPPP Preparer:

Name	Title	Company	Contact
Tim Zimmerly	CISEC, CPESC	LANS	664-0105
Jacob Knight	CISEC	COMPA Industries, Inc.	665-5880

1.3. Site Description

The borrow pit is a large excavated area where dirt was “borrowed” for other construction projects at LANL many years ago. The large fairy flat area does not discharge stormwater, as has been observed over many years, because it has a perimeter of large compacted earthen berms and most of the area drains toward the cut face and ponds stormwater. The area is stabilized with asphalt millings and also stages various spoils piles such as broken concrete, asphalt, rock and dirt. The only soil disturbing activities associated with this project will be for the drill cuttings pit. The excavated material will be used to construct large run-on diversion berms around the pit.

1.4. Buffers

Not applicable.

Names of Receiving Waters

Name(s) of the first surface water that receives stormwater directly from your site and/or from the MS4 (note: multiple rows provided where your site has more than one point of discharge that flows to different surface waters)
N/A

1.5. Compliance with Other Federal Requirements

This section contains summary information on documentation related to total maximum daily loads (TMDL) and documentation of permit eligibility related to threatened & endangered (T&E) species and critical habitat. Several tributaries to the Rio Grande are listed on the NM 303(d) list for assessed river/stream reaches requiring TMDLs; however TMDLs pertaining to sediment have yet to be established for these waters.

Appendix H includes a Historical Properties, Wetland, Threatened and Endangered (T&E) Species, and Critical Habitat Evaluation for Construction Projects with detailed information.

2. CONSTRUCTION ACTIVITIES AND CONTROLS

This section includes a description of the Best Management Practices (BMPs) that will be implemented as part of the construction activity to control pollutants in storm water discharges. BMPs include structural controls, schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the United States. BMPs are used to prevent the contamination of storm water runoff by retaining sediment on-site; minimizing contact with spoils, other disturbed soils, and equipment; and by diverting storm water from the locations in which erosion or sediment transport regularly take place. Details of controls are included in Appendix E and locations of controls will be shown on the site map included with this SWPP Plan.

BMPs that will be implemented at the construction site must be adequate and sufficient to meet water quality standards. Discharges that will cause or contribute to non-attainment of water quality standards, including failure to protect and maintain existing designated uses of receiving waters, are not allowed. Before soil-disturbing activities begin, the Operator with day-to-day control of Project activities will implement structural controls as needed to protect the disturbed areas and maintain them as required until final stabilization is achieved.

2.1. Sequence of Events/Soil Disturbing Activities

As major soil disturbing activities occur, as construction activities temporarily or permanently cease on a portion of the site and as stabilization measures are initiated, their dates will be added to the Soil Disturbance Sequencing Table listed in Appendix A. The estimated sequence of soil disturbing activities is as follows and is expected to be active for one week:

- Mobilize equipment
- Excavate cuttings pit
- Stabilize cuttings pit
- De-mobilize

2.2. Potential Pollutants

Potential pollutants that could have an effect on the quality of storm water discharges from this project may include but are not limited to:

- Construction and Well-Drilling Equipment (i.e. graders, drilling rigs, trucks, compressors, generators, etc.)
- Construction and well-drilling materials (i.e. drilling fluids, cuttings, development water, concrete, base course, and chemicals)
- Vehicle fluids such as hydraulic fluid, motor oil, gasoline, and diesel fuel
- Sediment from exposed areas and excavations
- Portable lavatories

Equipment and materials will be stored onsite within the project boundaries or within existing stabilized well pads with berms and detention ponds. All equipment and materials used during the project will be stored upslope of the site's structural controls. Additional appropriate controls including, but not limited to: secondary containment, drip pans, berming and covering; will be established based on site conditions and the type of equipment/materials used. If additional construction and waste materials are stored on site, these sections will be updated to reflect these materials including a description of controls and storage practices designed to minimize exposure of the materials to storm water, and spill prevention and response practices.

2.3. Design Requirements

See appendix G for details.

2.4. Control Measures

All erosion and sediment control measures, stabilization and structural controls, and other protective measures identified in this Plan will be maintained in effective operating condition by the subcontractor. Installation, maintenance, and inspection criteria for the BMPs to be used on-site are described along with details and specifications in Appendix F.

If inspections indicate that existing BMPs require modification, or additional BMPs are necessary, implementation shall be completed by no later than 7 days after the time of discovery. If it is not feasible to complete the installation or repair within 7 days documentation on why it is infeasible within this timeframe and a schedule for installation or repair as soon as practicable after the 7-day timeframe will be developed. All reasonable steps will be taken immediately (on the same day or by no later than the following day) take to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational, including cleaning up any contaminated surfaces so that the material will not discharge in subsequent storm events.

General controls and management practices that will be implemented in association with activities at the Project site include:

Site Planning and Management Controls

- Existing BMPs (berms) will reduce flow velocities, inhibit stormwater flow from the project area and control sediment. The SWPPP will be modified to reflect any additional controls necessary during construction.
- Stabilization measures will be initiated immediately in portions of the site where construction activities have temporarily or permanently ceased. Within 7 days after the construction activity in that portion of the site has temporarily or permanently ceased stabilization measures will have to be completed (except as provided in 2.2.1.3 of the CGP).

Sediment and Erosion Controls

- Compacted earthen berms will prevent stormwater discharges from the small area of disturbance.
- The cuttings pit will have berms installed around it to prevent run-on stormwater from entering the pit.
- Tracking is not expected to occur onto E. Jemez road because of existing site stabilization, but if tracking happens to occur it will be swept immediately and a stabilized construction exit/entrance BMP will be required.

Rationale for BMP selection is as follows:

- Minimization of soil disturbance is an economical and effective method of minimizing erosion.
- Material and waste management practices are an effective way to control the spread of potential pollutants and prevent discharge.
- Use of water is a low cost and effective way to manage fugitive dust.
- Utilization of earthen berms will prevent sediment discharge off site.

2.5. Stabilization

Stabilization shall be initiated immediately and completed no more than 7 days after construction activities have permanently or temporarily ceased in an area (except for exceptions provided in part 2.2.1.3 of the CGP). The area is already stabilized with asphalt millings and the cuttings pit will be lined and the associated berms will be stabilized with base course. Ultimately the cuttings pit will be filled in

upon required approvals for disposal of cuttings. The area will be stabilized with base course or asphalt millings.

Final stabilization is defined as: all soil disturbing activities at the site have been completed and a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover of 70% of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed. **Such determination will be made by ENV-CP personnel.**

Dates for stabilization of areas will be added to the Sequence of Soil Disturbing Events Table (Appendix A). The Operator with day-to-day control of Project activities is responsible for implementation and maintenance of stabilization methods until final stabilization is achieved.

3. POLLUTION PREVENTION

3.1. Non-Storm Water Discharges and controls

Non-storm water discharges are defined as significant discharges of water not associated with the natural runoff from a storm event. Non-storm water discharge control is the responsibility of the Operator with day-to-day operational control of the project area. The Operator will not cause, contribute to, or have reasonable potential to cause or contribute to a violation of a water quality standard. If additional controls are required they will be implemented and added to the Plan. The following possible non-storm water discharges are included under this Permit and are listed below.:

Type of Allowable Non-Stormwater Discharge	Likely to be Present at Your Site?
Discharges from emergency fire-fighting activities	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Fire hydrant flushings	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Landscape irrigation	<input type="checkbox"/> YES <input type="checkbox"/> NO
Waters used to wash vehicles and equipment	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Water used to control dust	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Potable water including uncontaminated water line flushings	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Routine external building wash down	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Pavement wash waters	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Uncontaminated air conditioning or compressor condensate	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Uncontaminated, non-turbid discharges of ground water or spring water	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Foundation or footing drains	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Construction dewatering water	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

The Operator with day-to-day control will ensure that any activities listed above will not result in runoff. If runoff from such an application does occur, appropriate controls, such as silt fence, rock check dams, or wattles downstream of the discharge, will be established prior to the next anticipated discharge and the SWPP Plan will be amended to reflect such a change.

3.2. Spill Prevention, Response & Reporting

Spill Prevention for this project includes inspecting equipment regularly for safety, cleanliness and leaks and implementation of appropriate controls at staging areas. The following controls will be utilized:

- Equipment found to be leaking will be removed from service and repaired.
- A spill kit will be located next to any materials or equipment that may leak.
- All fuels and chemicals will be stored in leak-proof containers that are kept under storm-resistant cover and surrounded by secondary containment structures (e.g., spill berms, decks, spill containment pallets).

The discharge of hazardous substances or oil resulting from an on-site spill is not authorized under this Permit coverage. Spills or releases shall be reported in accordance with LANL requirements. If fire or explosion is present, or if the potential for such exists, the situation will be reported by dialing 911.

Emergency Management & Response (EM&R) has been appointed by the Laboratory Director as the organization responsible for emergency management at the Laboratory. All uncontrollable spills or releases must be reported to the EM&R Office by calling 667-6211 or, after hours, at 667-7080. In the event of a spill, the EM&R Office will determine appropriate cleanup procedures and will notify the individuals or organization. If fire or explosion hazards are present, or if the potential for such exists, the situation must be reported by dialing 911 from a non-cellular phone or by activating a fire pull box. In accordance with LANL requirements, internal spill reporting will be completed in the event of any release.

Spill reports will be completed by the LANL organization responsible for overseeing site operations, and copies of the reports will be maintained by both the responsible organization and ENV-CP. Federal and state reporting is the responsibility of ENV-CP, and the determination for such notification will be made by ENV-CP and the EM&R Office in accordance with Laboratory and DOE policies and federal and state regulatory reporting requirements.

In the event of a release equal to or in excess of a reportable quantity, the SWPP Plan will be amended. All spills over 1 quart will be documented in the Spill Tracking Table (Appendix D.) As per LANL Procedures and EPA Regulations, any facility with a total aboveground fuel and oil storage capacity greater than 1,320 gallons including a de minimis container size of 55 gallons must have a Spill Prevention Control and Countermeasures Plan. This Plan will be submitted to ENV-CP for approval.

Prohibited discharges include:

- Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance
- Toxic or hazardous substances from a spill or other release

3.3. Construction and Waste Materials

Material and Waste Management

- Material and soil stockpiles will be protected from contact with stormwater (including run-on) using a temporary perimeter sediment barrier comprised of gravel bags. Cover or other appropriate temporary or permanent stabilization to avoid direct contact with precipitation or to prevent sediment discharge may also be employed.
- Litter, material cuttings, and any other waste will be picked up or managed under good housekeeping practices at the end of each workday and prior to an anticipated precipitation event. Waste must be containerized to limit contact with storm water.
- Direct any concrete washwater into a leak-proof container or leak-proof pit in a specially designated area away from storm drain inlets and drainage areas. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation.
- Fuels and chemicals will be placed within covered storage, or a lined berm or other appropriate secondary containment.
- If used, portable lavatories will be used and maintained and secured in accordance with manufacturer recommendations to prevent from tipping over in windy conditions or being knocked over; lavatory waste will be treated off-site. Lavatories will be placed on a level area at least 50' from the watercourse.
- Material shall be transported in appropriate containers or vehicles so that facility locations outside the project boundaries and public roadways will not be adversely impacted through sediment tracking or waste spillage.
- All vehicles and equipment will be observed for leaks and, if found, drip pans will be used until fixed. Leaks will be fixed as soon as practicable and leaking vehicles and equipment will be removed from service and repaired. Any leaks discovered shall be recorded in Appendix D. Spills of all products will be cleaned up and managed per applicable LANL procedures and state and federal regulations.
- Fueling operations will be completed such that head space is provided within fuel tanks to allow for fuel expansion. Provide secondary containment structures or other similarly effective means of preventing the discharge of spilled or leaked chemicals from the area designated for this activity. If not practical, identify specifically the situations where this requirement may not be practical and describe alternative methods of preventing the discharge.
- If sediment escapes the construction site, or is tracked onto E. Jemez road, off-site accumulations of sediment will be removed at a frequency sufficient to minimize offsite impacts.
- Where necessary, dust generation on-site shall be minimized with the application of water and/or an approved soil stabilizer. Water used to suppress dust generation will be applied at a rate to

avoid discharge of water from the site. If additives are used, they will be applied per an approved NMED NOI.

4. PROCEDURES

4.1. Inspections

Disturbed areas, structural control measures, staging areas, and areas that have been stabilized shall be inspected at least once every **seven (7) calendar days**, and within 24 hours or the next working day of the end of a storm event equal to or greater than ¼ inch of precipitation. If the entire site has been temporarily stabilized, runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground exists), or during seasonal arid periods, inspections shall be conducted at least once every month.

Inspections to be performed by qualified personnel shall include the following:

- All areas that have been cleared, graded, or excavated where stabilization has not yet been implemented.
- All stormwater controls (including pollution prevention measures) installed at the site to comply with this permit.
- Material, waste, borrow, or equipment storage and maintenance areas that are covered by this permit.
- All areas where stormwater typically flows within the site, including drainageways designed to divert, convey, and/or treat stormwater.
- All points of discharge from the site.
- All locations where stabilization measures have been implemented.

Inspections shall be documented on the inspection form provided in Appendix J and will be retained in the SWPPP under Appendix K. Operators shall certify each inspection report in accordance with Appendix I, Part I.11 of the CGP. Inspections shall be continued by LANL (ENV-CP) until final stabilization of an area is achieved and/or the NOT is submitted. Inspector qualifications are included in Appendix J.

Precipitation Event:

- The rain events in the high desert mountain environments such as northern New Mexico can vary from short intense storms to a longer duration and less intense storm. The CGP requires that permittees complete inspections within 24 hours of a ¼ inch or greater storm event. Inspections will only be conducted during the project's normal working hours as permitted by the CGP. Rain data will be taken from the LANL TA-53 rain gage. TA-6 rain gage will be used as a backup rain gage.

4.2. Maintenance

Erosion and sediment controls must remain in effective operation condition during permit coverage and must be protected from activities that would reduce their effectiveness. Erosion and sediment controls will be inspected as required and noted in section 4.1 of this SWPPP and deficiencies will be documented on inspection forms and corrective action forms as discovered. Repairs or modifications must be made according to the following schedule:

- Initiate work to fix the problem immediately after discovering the problem, and complete such work by the close of the next work day, if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance.
- When installation of a new erosion or sediment control or significant repair is needed, install the new or modified control and make it operational, or complete the repair, within 7 calendar days from the time of discovery where feasible. If it is infeasible, document the reason it is infeasible and document the schedule for installing the control measures or making it operational as soon as practicable after the 7-day timeframe. Where these actions result in changes to any of the stormwater controls or procedures documented in this SWPPP, the SWPPP will be modified accordingly within 7 calendar days of completing the work.

4.3. Corrective Actions and Reporting

A corrective action report shall be completed for corrective actions taken in accordance with Part 5.4 of the CGP. A blank corrective action report will be kept in Appendix J. Completed corrective action reports will be kept in Appendix K behind each applicable inspection. Corrective actions will be identified when it is required of the project to maintain compliance with the CGP by conducting any of the following:

- Repair, modify, or replace any stormwater control used at the site;
- Install a new stormwater control based on site conditions or SWPPP requirements;
- Perform proper site housekeeping such as picking up trash;
- Clean up and properly dispose of spills, releases, or sediment deposits; and
- Correct any other permit violations.

Within 7 days of discovering any of the triggering conditions requiring a corrective action report, a follow up report must be attached to the corrective action report noting any immediate follow up actions taken and a summary of stormwater control modifications taken or to be taken, including schedules and dates.

Operators shall also certify each corrective action and follow up report in accordance with Appendix I, Part I.11 of the CGP and maintain such reports in Appendix K of this Plan.

4.4. SWPPP Modifications

This SWPP Plan, including site maps, will be modified within 7 calendar days under the following conditions:

- New operators become active in construction activities on the site or changes are made to the construction plans, stormwater control measures, pollution prevention measures, or other activities at the site that are no longer accurately reflected in the SWPPP. This includes changes made due to required corrective actions.
- Areas on the site map where operational control has been transferred (and the date of transfer) since permit coverage was initiated.
- Inspections or investigations by site staff, or by state or federal officials determine that SWPPP modifications are necessary for compliance with the CGP.
- EPA determines it is necessary to impose additional requirements on your discharge. The following must be included in the SWPPP:
 - A copy of any correspondence describing such requirements.
 - A description of the stormwater control measures that will be used to meet such requirements.
- To reflect any revisions to applicable federal or state requirements that affect the stormwater control measures implemented at the site.

A record of SWPPP modifications including a summary of the changes, authorization, dates and notifications to other operators will be maintained using the SWPPP Modification Tracking Log provided in Appendix B.

4.5. Training

Required project personnel must be trained to understand the following if related to the scope of their job duties:

- The location of all stormwater 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
- When and how to conduct inspections, record applicable findings and take corrective actions.

The following personnel at a minimum must receive training in order to understand the requirements of the CGP and their specific responsibilities with respect to the requirements:

- 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 as required in Part 4.1.1 of the CGP
- Personnel who are responsible for taking corrective actions as required in Part 5 of the CGP.

Records of training will be maintained in Appendix I.

4.6. Site Maps

Appendix C includes a project specific site map that provides boundaries of the project area and the locations where construction or potentially polluting activities will occur, including the following:

- Locations where earth-disturbing activities will occur.
- Locations where sediment, soil or other construction materials will be stockpiled.
- Locations of all surface waters, including wetlands, that exist on or near your site. Indicate which waterbodies are listed as impaired, and which are identified as Tier 2, Tier 2.5, or Tier 3 waters.
- Locations of all potential pollutant-generating activities.
- Locations of all stormwater control measures.

4.7. Record Keeping

A copy of the SWPP Plan will be maintained onsite for the use of all operators and those identified in the SWPP Plan as having on-site responsibilities, the EPA, ENV-CP representatives, and state and federal agencies until the project is closed under the conditions of the CGP. The Plan will contain required signatures, a copy of permit language, all reports required by permit coverage, a copy of the complete NOI (once posted on EPA's website), and any other applicable documentation. Items that will be maintained and attached to the SWPP include:

- Soil Disturbance Sequencing Event Table containing: dates when major soil disturbing activities occur, dates when construction activities temporarily or permanently cease on a portion of the site, and dates when stabilization measures are initiated (Appendix A)
- SWPPP Modification Records (Appendix B)
- Site Maps (Appendix C)
- Spill Tracking Form (Appendix D)
- SWPPP training (Appendix I)
- Inspection Reports and Corrective Action Reports (Appendix K)

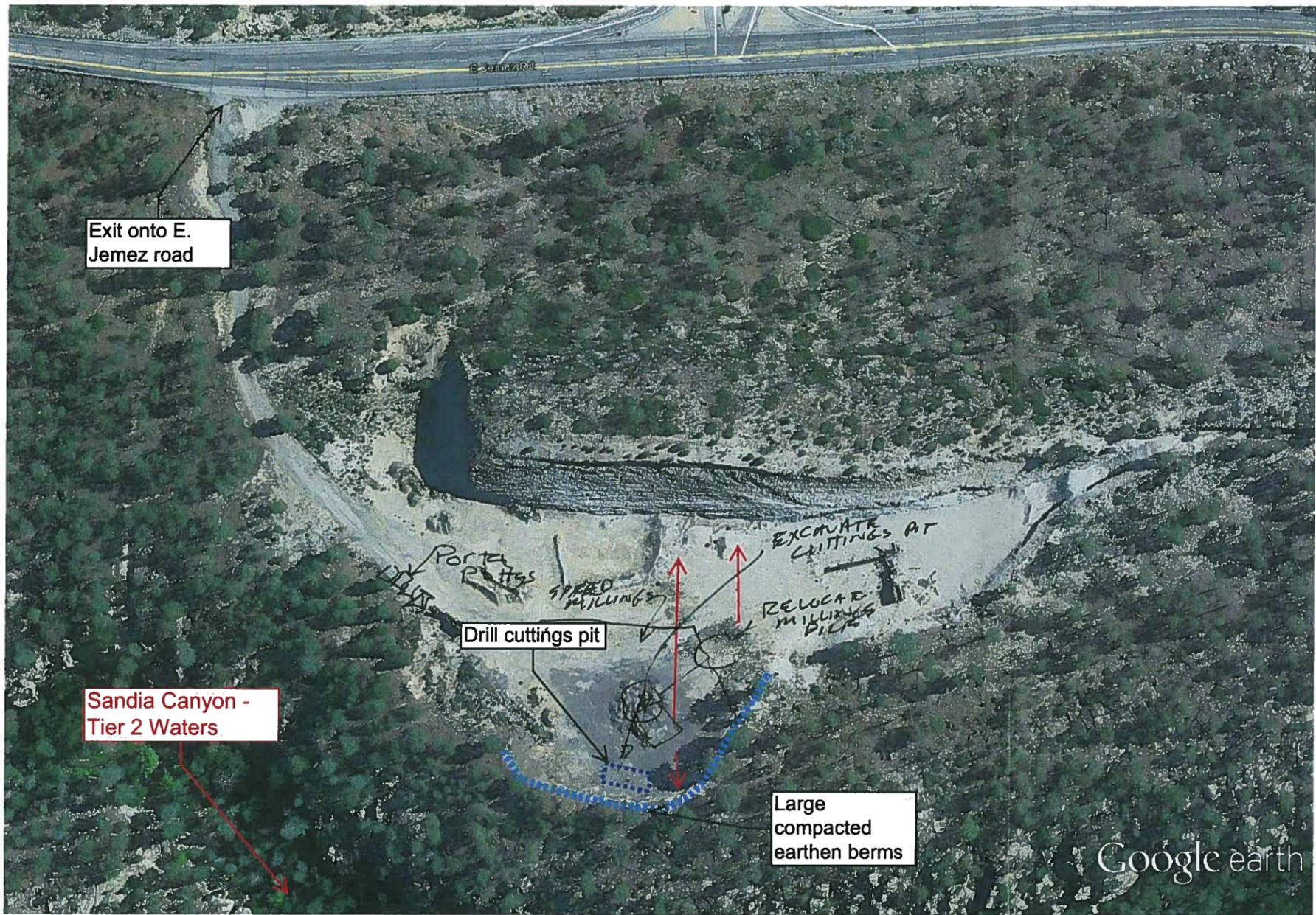
Copies of SWPP Plans, inspection records, spill reports, all reports required by NPDES permit coverage, and data used to complete the NOI shall be retained by the permittees for a period of at least three (3) years from the date of final stabilization. LANL will also retain records in accordance with DOE policy.

APPENDIX A:

**Sequence of Events for Soil Disturbance
Tracking Table**

APPENDIX C:

Site Maps



Google earth

feet
meters



Stormwater flow

APPENDIX E:
Permit Regulations, NOI, Delegation of Authority Letter,
EPA Acknowledgement

http://www.epa.gov/npdes/pubs/cgp2012_finalpermit.pdf

Company: LOS ALAMOS NATIONAL SECURITY
ATTN: TERRILL LEMKE
PO BOX 1663 MS K490
LOS ALAMOS NM 87545

Facility: REGIONAL WELLS PROJECT
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS NM 87545

Permit Tracking Number: NMR12A582

This email acknowledges that a complete Notice of Intent (NOI) form seeking coverage under EPA's Construction General Permit (CGP) is now active. Your NOI was completed and submitted on Monday, May 14, 2012. Coverage under this permit began at the conclusion of your 14 day waiting period on Monday, June 11, 2012, unless otherwise notified by EPA.

For tracking purposes, the following number has been assigned to your NOI form: NMR12A582. Attached to this email, you will find an electronic copy of your completed NOI which should be posted at your site.

As stated above, this email acknowledges receipt of a complete NOI. However, it is not an EPA determination of the validity of the information you provided. Your eligibility for coverage under this permit is based on the validity of the certification you provided. Your electronic signature on this form certifies that you have read, understood, and are implementing all of the applicable requirements. An important aspect of this certification requires that you have correctly determined whether you are eligible for coverage under this permit.

As you know, the CGP requires you to have developed a Stormwater Pollution Prevention Plan (SWPPP) prior to submitting your NOI. The CGP also includes specific requirements for erosion and sediment control, stabilization, pollution prevention, inspections, corrective actions, and staff training. You must also comply with any additional location-specific requirements applicable to your state or tribal area as described in the CGP. Note that a copy of the CGP must be kept with your SWPPP. An electronic copy of the CGP and additional guidance materials can be viewed and downloaded at: <http://www.epa.gov/npdes/stormwater>

You have indicated in your NOI that there are surface waters that exist within or immediately adjacent to your site. Because of the proximity of these waters to your construction activities, be advised that you are required to comply with the buffer requirements in Part 2.1.2.1. This provision requires that you comply with one of the following three compliance alternatives:

- Provide and maintain a 50-foot buffer of undisturbed natural vegetation; or
- Provide and maintain an undisturbed naturally vegetated buffer that is less than 50 feet and is supplemented by additional erosion and sediment controls, which in combination achieves the sediment load reduction equivalent to a 50-foot buffer of undisturbed natural vegetation; or
- If it is infeasible to provide and maintain an undisturbed naturally vegetated buffer of any size,

you must implement erosion and sediment controls that achieve the sediment load reduction equivalent to a 50-foot buffer of undisturbed natural vegetation.

You must document the compliance alternative you have selected in your SWPPP, and comply with the applicable additional requirements described in Parts 2.1.2.1.b and 2.1.2.1.c.

You have indicated in your NOI that you discharge to at least one surface water that is listed as impaired by the state or tribe in which your project is located. If your site discharges to one or more surface waters that are impaired for sediment or a sediment-related parameter (e.g., total suspended solids or turbidity) or nutrients (e.g., nitrogen or phosphorus), you are required to comply with additional stormwater control requirements pertaining to site inspections in Part 4.1.3 and the deadline to complete site stabilization in Part 2.2.1.3.c. If your site discharges to surface waters that are impaired for pollutants other than a sediment or nutrients, or related pollutants, you are only subject to additional requirements if EPA informs you separately of such requirements.

If you have general questions regarding the stormwater program or your responsibilities under the CGP, please call your region contact. Regional contact email and phone number can be found at: <http://cfpub.epa.gov/npdes/contacts.cfm>

If you have questions about your NOI form, please call the EPA NOI Processing Center at 1-866-352-7755 (toll free) or send an inquiry via the online form at: <http://cfpub.epa.gov/npdes/noicontact.cfm>

If you have difficulty accessing CDX, please contact the CDX Help Desk at: (888) 890-1995.

You can return to the eNOI system using the following link at any time
<https://cdx.epa.gov/SSL/cdx/login.asp>.

EPA NOI Processing Center
Operated by Avanti Corporation
1200 Pennsylvania Ave., NW
Mail Code: 4203M
Washington, DC 20460
1-866-352-7755



Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in Section II of this form requests authorization to discharge pursuant to the NPDES Construction General Permit (CGP) permit number identified in Section I of this form. Submission of this NOI also constitutes notice that the operator identified in Section II of this form meets the eligibility requirements of Part 1.1.1 of the CGP for the project identified in Section III of this form. Permit coverage is required prior to commencement of construction activity until you are eligible to terminate coverage as detailed in Part 8 of the CGP. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage. Refer to the instructions at the end of this form.

I. Approval to Use Paper NOI Form

Have you been given approval from the Regional Office to use this paper NOI form*? Yes NO

If yes, provide the reason you need to use this paper form, the name of the EPA Regional Office staff person who approved your use of this form, and the date of approval:

Reason for using paper form:

Name of EPA staff person:

Date approval obtained:

* Note: You must have been given approval by the Regional Office prior to using this paper NOI form.

II. Permit Information: Tracking Number (EPA Use Only) NMR12A582

Permit Number: NMR120000 (see Appendix B of the CGP for the list of eligible permit numbers)

III. Operator Information

Name: LOS ALAMOS NATIONAL SECURITY

Phone: 505-665-2397

Fax (Optional):

Email: tlemke@lanl.gov

IRS Employer Identification Number (EIN): 20-3104541

Point of Contact (First Name, Middle Initial, Last Name): TERRILL LEMKE

Mailing Address:

Street: PO BOX 1663 MS K490

City: LOS ALAMOS

State: NM

Zip: 87545

NOI Preparer (Complete if NOI was prepared by someone other than the certifier):

Prepared by (First Name, Middle Initial, Last Name): TIM ZIMMERLY

Organization: LOS ALAMOS NATIONAL LABORATORY

Phone:

Fax (Optional):

E-mail: tzimmer@lanl.gov

IV. Project/Site Information

Project/Site Name: REGIONAL WELLS PROJECT

Project/Site Address:

Street: LOS ALAMOS NATIONAL LABORATORY

City: LOS ALAMOS

State: NM

Zip: 87545

County or similar government subdivision: LOS ALAMOS COUNTY

For the project/site for you are seeking permit coverage, provide the following information:

Latitude/Longitude (Use one of three possible formats, and specify method)

Latitude 1. _____ N(degrees, minutes, seconds) Longitude 1. _____ W(degrees, minutes, seconds)
 2. _____ N(degrees, minutes, decimal) Longitude 2. _____ W(degrees, minutes, decimal)
 "35°51'57.
 30"N" "106°15'4
 7.52"W"
 3. _____ N(degrees, decimals) Longitude 3. _____ W(degrees, decimals)

Latitude/Longitude Data Source: U.S.G.S topographical map EPA web site GPS Other: GOOGLE EARTH

Horizontal Reference Datum: NAD 27 NAD 83 or WGS 84 Unknown

Is your project/site located in Indian Country lands, or located on a property of religious or cultural significance to an Indian tribe? Yes No

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

Are any of your activities for which you are requesting covered under this NOI occurring on areas considered "federal facilities" as defined in Appendix A? Yes No

Estimated Project Start Date: 03/19/2007 **Estimated Project Completion Date:** 09/30/2012

Estimated Area to be Disturbed (to the nearest quarter acre): 5.75

Have earth-disturbing activities commenced on your project/site? Yes No

If yes, is your project an "emergency-related project"? Yes No

Have stormwater discharges from your project/site been covered previously under an NPDES permit? Yes No

If yes, provide the Tracking Number if you had coverage under EPA's CGP or the NPDES permit number if you had coverage under an EPA individual permit: NMR15FG67

V. Discharge Information

Does your project/site discharge stormwater into a Municipal Separate Storm Sewer System (MS4)? Yes No

Do any surface waters exist within or immediately adjacent to the property on which the construction activities will occur? Yes No

Receiving Waters and Wetlands Information: (Attach a separate list if necessary)

Surface water(s) to which discharge	Impaired Water	Listed Water Pollutant(s)	Source
DP CANYON	No		
DP CANYON	Yes	METALS (OTHER THAN MERCURY) POLYCHLORINATED BIPHENYLS (PCBS) RADIATION	STATE OF NEW MEXICO CLEAN WATER ACT 303(d)/305(b) INTEGRATED REPORT 7/29/2010
MORTANDAD CANYON	Yes	METALS (OTHER THAN MERCURY) RADIATION	STATE OF NEW MEXICO CLEAN WATER ACT 303(d)/305(b) INTEGRATED REPORT 7/29/2010
CANON DE VALLE	Yes	METALS (OTHER THAN MERCURY) RADIATION	STATE OF NEW MEXICO CLEAN WATER ACT 303(d)/305(b) INTEGRATED REPORT 7/29/2010
LOS ALAMOS CANYON	Yes	MERCURY METALS (OTHER THAN MERCURY) POLYCHLORINATED BIPHENYLS (PCBS) RADIATION	STATE OF NEW MEXICO CLEAN WATER ACT 303(d)/305(b) INTEGRATED REPORT 7/29/2010
SANDIA CANYON	Yes	MERCURY METALS (OTHER THAN MERCURY) POLYCHLORINATED BIPHENYLS (PCBS) RADIATION	STATE OF NEW MEXICO CLEAN WATER ACT 303(d)/305(b) INTEGRATED REPORT 7/29/2010
TEN SITE CANYON	Yes	METALS (OTHER THAN MERCURY) POLYCHLORINATED BIPHENYLS (PCBS) RADIATION	STATE OF NEW MEXICO CLEAN WATER ACT 303(d)/305(b) INTEGRATED REPORT 7/29/2010

Impaired Waters

Describe the methods you used to complete the above table:

Are any of the surface waters to which you discharge designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water) or as a Tier 3 water (Outstanding Natural Resource Water)? (See Appendix F).

Yes No

If yes, name(s) of receiving water(s) and its designation (Tier 2, Tier 2.5 or Tier 3):

VI. Chemical Treatment Information

Will you use polymers, flocculants, or other treatment chemicals at your construction site? Yes No

If yes, will you use cationic treatment chemicals* at your construction site? Yes No

If yes, have you been authorized to use cationic treatment chemicals by your applicable EPA Regional Office in advance of filing your NOI*?

Yes No

If you have been authorized to use cationic treatment chemicals by your applicable EPA Regional Office, attach a copy of your authorization letter and include documentation of the appropriate controls and implementation procedures designed to ensure that your use of cationic treatment chemicals will not lead to a violation of water quality standards.

Please indicate the treatment chemicals that you will use:

* Note: You are ineligible for coverage under this permit unless you notify your applicable EPA Regional Office in advance and the EPA office authorizes coverage under this permit after you have included appropriate controls and implementation procedures designed to ensure that your use of cationic treatment chemicals will not lead to a violation of water quality standards.

VII. Stormwater Pollution Prevention Plan (SWPPP) Information

Has the SWPPP been prepared in advance of filing this NOI? Yes No

SWPPP Contact Information:

First Name, Middle Initial, Last Name: TERRILL LEMKE

Organization: ENV-RCRA STORMWATER PERMIT COMPLIANCE

Phone: 505-665-2397

Fax (Optional):

E-mail: tlemke@lanl.gov

VIII. Endangered Species Protection

Using the instructions in Appendix D of the CGP, under which criterion listed in Appendix D are you eligible for coverage under this permit (only check 1 box)?

A B C D E F

Provide the basis for criterion selection listed in Appendix D (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service, specific study): COMMUNICATION WITH THE US FISHAND WILDLIFE SERVICE

If you select criterion B, provide the Tracking Number from the other operator's notification of authorization under this permit:

If you select criterion C, you must attach a copy of your site map (see Part 7.2.6 of the permit), and you must answer the following questions:

What federally-listed species or federally-designated critical habitat are located in your "action area":

What is the distance between your site and the listed species or critical habitat (miles):

If you select criterion D, E, or F, attach copies of any letters or other communications between you and the U.S. Fish and Wildlife Service or National Marine Fisheries Service.

IX. Historic Preservation

Are you installing any stormwater controls as described in Appendix E that require subsurface earth disturbance? Yes No

If yes, have prior surveys or evaluations conducted on the site have already determined historic properties do not exist, or that prior disturbances have precluded the existence of historic properties? (Appendix E, Step 2) Yes No

If no, have you determined that your installation of subsurface earth-disturbing stormwater controls will have no effect on historic properties? (Appendix E, Step 3) Yes No

If no, did the SHPO, THPO, or other tribal representative (whichever applies) respond to you within the 15 calendar days to indicate whether the subsurface earth disturbances caused by the installation of stormwater controls affect historic properties? (Appendix E, Step 4) Yes No

If yes, describe the nature of their response:

<input type="checkbox"/>	Written indication that no historic properties will be affected by the installation of stormwater controls on the site.
<input type="checkbox"/>	Written indication that adverse effects to historic properties from the installation of stormwater controls can be mitigated by agreed upon actions.
<input type="checkbox"/>	No agreement has been reached regarding measures to mitigate effects to historic properties from the installation of stormwater controls.
<input type="checkbox"/>	Other: _____

X. 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: ALISON M DORRIES

Title: DIVISION LEADER

Signature: _____ **Date:** _____

E-mail: adorries@lanl.gov



Associate Director for ESH

ADESH

P. O. Box 1663, MS K491

Los Alamos, New Mexico 87545

505-667-4218/Fax 505-665-3811

Date: **AUG 14 2013**

Symbol: ADESH-13-041

LAUR: 13-25954

Mr. Ron Curry, Regional Administrator
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Mail Code: 6RA
Dallas, TX 75202-2733

Dear Mr. Curry:

SUBJECT: NOTIFICATION OF LOS ALAMOS NATIONAL SECURITY, LLC SIGNATORY OFFICIAL AND AUTHORIZED REPRESENTATIVES FOR NPDES STORMWATER GENERAL PERMITS AND LANL INDUSTRIAL POINT SOURCE OUTFALL PERMIT (NPDES PERMIT NO. NM0028355)

The purpose of this letter is to provide an update to the Environmental Protection Agency (EPA) Region 6 on the signatory authority for the operator of Los Alamos National Laboratory (LANL) NPDES permits. Los Alamos National Security, LLC (LANS) has been the Laboratory's management and operation contractor since June 1, 2006 and is also a co-permittee with the Department of Energy under the LANL Industrial Point Source Outfall Permit (NPDES Permit No. NM0028355).

The positions of Associate Director of Environmental, Safety, and Health (ADESH), Deputy Associate Director, and Division Leader of the Environmental Protection Division (ENV-DO) are hereby identified as LANS's primary signatory officials under 40 CFR 122.22(a) for certifying and signing permit applications and reports required under the LANL Industrial Point Source Outfall Permit (NPDES Permit No. NM0028355) and the NPDES Stormwater Construction and Multi-Sector General Permits.

The following positions are hereby designated as authorized representatives under 40 CFR 122.22(b) to sign reports, Storm Water Pollution Prevention Plans, and any other compliance documentation required by the permits:

Construction General Permit:

- Group Leader of the Laboratory's Environmental Compliance Programs Group.
- Cognizant Project Manager, Project or Field Engineer, or Subcontractor Technical Representative for the regulated construction activity.

- Responsible Facility Operations Director (FOD), Deputy FOD, or Operations Manager responsible for the overall operation of the regulated facility or construction activity.

Multi-Sector General Permit (No. NMR05GB21) & Industrial Point Source Outfall Permit (No. NM0028355):

- Group Leader of the Laboratory's Environmental Compliance Programs Group.
- Division Leader, Deputy Division Leader, or Group Leader of the LANL division responsible for the overall operation of the regulated facility or activity.
- Responsible FOD, Deputy FOD or Operations Manager responsible for the overall operation of the regulated facility or activity.
- Group Leader in the ESH Deployed Services Division assigned to the regulated facility.

This letter supersedes and replaces the signatory authority letter dated March 2, 2009 (See Enclosure 1) with respect to the LANL Industrial Point Source Outfall Permit, the Construction General Permit, and the Multi-Sector General Permit, and is submitted to notify the EPA of the current authorized representatives pursuant to 40 CFR 122.22(c).

Please contact Alison M. Dorries, Division Leader for the Environmental Protection Division, at (505) 665-6592, if you have questions.

Sincerely,



Michael T. Brandt, DrPH, CIH
Associate Director
Environment, Safety & Health

MTB:AMD:MTS/lm

Enclosure:

1. Delegation of "Authorized Representative" for the Clean Water Act (CWA) and NPDES Storm Water Permits and Industrial Outfall Permit by Los Alamos National Security, LLC (LANS) Memo

CY: Diana McDonald, USEPA, Region 6, Dallas, TX
Isaac Chen, USEPA, Region 6, Dallas, TX
Jan Walker, USEPA, Region 6, Dallas, TX
Brent E. Larsen, USEPA, Region 6, Dallas, TX
Bruce Yurdin, NMED/SWQB, Santa Fe, NM
Gene Tuner, NA-OO-LA, (E-File)
David Sosinski, LC-DO, (E-File)
Carl A. Beard, PADOPS, A102
Alison M. Dorries, ENV-DO, (E-File)

Cy (continued):

Anthony R. Grieggs, ENV-CP, (E-File)
Michael T. Saladen, ENV-CP, (E-File)
Terrill W. Lemke, ENV-CP, (E-File)
Deborah K. Woitte, LC-LESH, (E-File)
Brett S. Henrikson, LC-LESH, (E-File)
Alexander W. Purdue, LC-BL, (E-File)
LASOmailbox@nnsa.doe.gov, (E-File)
locatsteam@lanl.gov, (E-File)
ADESH Correspondence File, (E-File)
ENV-CP Correspondence, File, K490

ENCLOSURE 1

Delegation of “Authorized Representative” for the Clean Water Act (CWA) and NPDES Storm Water Permits and Industrial Outfall Permit by Los Alamos National Security, LLC (LANS) Memo

ADESH-13-041

LAUR-13-25954

Date: AUG 1 4 2013



Associate Directorate for ESH&Q
P.O. Box 1663, Mail Stop K491
Los Alamos, New Mexico 87545
(505) 667-4218/Fax: (505) 665-3811

Date: March 2, 2009
Refer To: ESH&Q-09-009

Mr. Lawrence E. Starfield, Regional Administrator
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dear Mr. Starfield:

SUBJECT: DELEGATION OF "AUTHORIZED REPRESENTATIVE" FOR THE CLEAN WATER ACT (CWA) AND NPDES STORM WATER PERMITS AND INDUSTRIAL OUTFALL PERMIT BY LOS ALAMOS NATIONAL SECURITY, LLC (LANS)

The purpose of this letter is to inform the Environmental Protection Agency (EPA) Region 6 of a change in signatory authority for operator of Los Alamos National Laboratory (LANL). Los Alamos National Security, LLC (LANS) has been the Laboratory's management and operation contractor since June 1, 2006. This letter delegates authority as the LANS "authorized representative" for certifying and signing permits and documents required under the Clean Water Act and associated National Pollutant Discharge Elimination System (NPDES) storm water permits (Construction General Permit, Multi-Sector General Permit, LANL Individual Permit), and the NPDES Industrial Outfall Permit. This letter replaces the two LANS' delegation of "authorized representative" letters dated June 1, 2006 (ESH&Q: 06-001) and June 19, 2006 (ESH&Q: 06-002).

As the designated LANS signatory official for Clean Water Act and associated NPDES Permit Programs (please see Enclosure 1), I wish to further identify the position of Division Leader of the Laboratory's Environmental Protection Division (ENV-DO) as certifying official for NPDES standard permit requirements with the authority to certify, review, approve and/or sign as certifying official of all permit applications (e.g. Notice of Intent (NOIs) and Notice of Termination (NOTs)), permit modifications, registrations, certifications, reports and other information as required by EPA. The following is a detailed breakdown of this delegation of signatory authorities.

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

NPDES Storm Water Construction General Permit

- Group Leader or Deputy Group Leader of the Laboratory's Water Quality & RCRA Group.
- Cognizant Project Manager, Project Leader, or Subcontractor Technical Representative for the regulated construction activity.
- Responsible Facility Operations Director (FOD), Deputy FOD, or Operations Manager responsible for the overall operation of the regulated facility or activity.

Multi-Sector General Permit & LANL Individual Permit

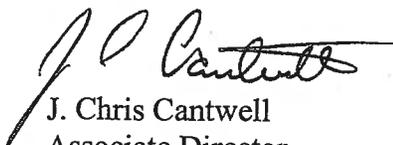
- Group Leader or Deputy Group Leader of the Laboratory's Water Quality & RCRA Group.
- Director, Deputy Director, or Group Leader of the Laboratory Division responsible for the overall operation of the regulated facility or activity.
- Responsible FOD, Deputy FOD or Operations Manager responsible for the overall operation of the regulated facility or activity.
- Program Director, Program Manager or Project Leader responsible for the overall operation of the regulated facility or activity.

NPDES Outfall Permit No. NM0028355

- Group Leader or Deputy Group Leader of the Laboratory's Water Quality & RCRA Group.
- Director or Deputy Director of the Laboratory Division responsible for the overall operation of the regulated facility or activity.

Please contact Tori George, Division Leader for Environmental Protection, at (505) 667-2211, if you have questions.

Sincerely,



J. Chris Cantwell
Associate Director
Environment, Safety, Health and Quality

Enclosures: a/s

Cy: M. Flores, U.S. EPA, Region 6, Dallas, TX, w/enc.
C. Hosch, U.S. EPA, Region 6, Dallas, TX, w/enc.
W. Lane, U.S. EPA, Region 6, Dallas, TX, w/enc.
I. Chen, U.S. EPA, Region 6, Dallas, TX, w/enc.
B. Larsen, U.S. EPA, Region 6, Dallas, TX, w/enc.
G. Saums, NMED/SWQB, Santa Fe, NM, w/enc.
R. Powell, NMED/SWQB, Santa Fe, NM, w/enc.
D. Winchell, NNSA-LASO, w/enc., MS A316
G. Rael, NNSA-LASO, w/enc., MS A906
G. Turner, NNSA-LASO, w/enc., MS A316
D. Sosinski, LC-DO, MS A183
D. Woitte, LC-LESH, MS A187
P. Wardwell, LC-LESH, w/enc., MS A187
T. George, ENV-DO, w/enc., MS J978
T. Grieggs, ENV-RCRA, w/enc., MS K490
M. Saladen, ENV-RCRA, w/enc., MS K490
T. Lemke, ENV-RCRA, w/enc., MS K490
ESH&Q File, w/enc., MS K491
ENV-DO, File, w/enc., MS J978
ENV-RCRA, File, (09-024), w/enc., MS K490
IRM-RMMSO, w/enc., MS A150

(ENCLOSURE 1)



Office of the Director

March 4, 2009

J. Chris Cantwell
Associate Director
Environment, Safety, Health and Quality
Los Alamos National Security

Dear Mr. Cantwell: *Chris*

SUBJECT: CONTRACT NUMBER: DE-AC52-06NA25396, DELEGATION OF AUTHORITY FOR PERMITS, AUTHORIZATIONS AND OTHER DOCUMENTS AS AN OPERATOR OR CO-OPERATOR UNDER ENVIRONMENTAL PERMITS FOR THE LOS ALAMOS NATIONAL LABORATORY

I, Michael R. Anastasio, Director of Los Alamos National Laboratory and President of Los Alamos National Security, LLC (LANS), the "Company," hereby delegate authority to you, J. Chris Cantwell, Associate Director, Environmental, Safety and Health and Quality (ADESH&Q), to execute on behalf of the Company permits, authorizations, or other documents necessary for the Company to become an operator or co-operator under the environmental permits for the Los Alamos National Laboratory, which permits are currently in the name of the Los Alamos National Security.

This delegation shall remain in effect while you are in the position of Associate Director, ADESH&Q or until revoked by me.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Mike'.

Michael R. Anastasio
Director

Cy: I. E. Richardson III, DIR, A100
M. Mallory, PADOPS, A102
M. Graham, ADEP, M991
T. George, ENV-DO, J978
D. Sosinski, LC-DO, A183

D. Woitte, LC-LESH, A187
R. Madison, LANS, T009
M. Rafferty, PCM-DO, M722
IRM-RMMSO, A150
DIR-09-085

APPENDIX F:

BMP Guidance, Details, and Specifications

1. Berms
2. Permanent seeding
3. Fiber Rolls
4. Silt fence
5. Riprap
6. Housekeeping
7. LANL seeding spec 32 9219

BERMS AND CHANNELS



Options and Alternatives

- Swale/berm combination
- Rock berms
- Log berms
- Triangular Silt Dike®

BMP Objectives

- Runoff Control
- Run-on Diversion

Description

Berms and channels are most often used to prevent run-on from eroding an exposed or disturbed area, and to divert sediment-laden runoff to a sediment trap, sediment basin or other suitable, stabilized discharge outlet. When used as a temporary control, berms are most often constructed from compacted soil or loose gravel, stone, or crushed rock. Berms may serve as a permanent structural control when constructed from asphalt, concrete, or other similar material. Channels can be incorporated into a berm design or function as a stand-alone BMP, and are typically constructed from compacted soil or lined with a suitable material.

Applications

Effective in diverting run-on away from unprotected areas and reducing flow velocities; effective to retain small amounts of runoff and sediment onsite.

Limitations

- A berm with a height of over 2 feet or located in an area where failure of the berm would result in damage to facilities, the environment or other safety issues requires an engineered design.
- Increased potential for failure if the upslope gradient is too great, resulting in high velocity flows.
- Earth berms may require vegetative stabilization to prevent erosion of the berm itself.
- Excessive sediment accumulation on upslope side of berm needs frequent clean-out.
- Channels may require engineering calculations to ensure the channel material is adequate to withstand flow velocity and shear stress.

Performance and Longevity

Performance	Poor or N/A	Good	Excellent
Erosion Prevention		x	
Sediment Control		x	
Runoff Control			x
Good Housekeeping	x		

Longevity	Temporary (must be removed)	Long term (may need maintenance)	Permanent	Re-useable
Earth and base course	x	x		
Asphalt and concrete			x	
Prefabricated channels and culverts	x	x	x	x
Prefabricated barriers	x			x

Design and Construction Guidance

- Berms should be constructed during initial land-disturbing activities and must be operational prior to upslope land disturbance.
- A shallow trench or swale to contain the diverted run-on/runoff can be incorporated into the berm design.
- Where applicable, on-site material should be used for berm construction.
- Berm material needs to meet requirements for gravelly clay or sandy clay. Do not use gravelly sand or gravelly loam to construct berms.
- When used as a perimeter or down slope control, berms should divert runoff to a sediment trapping control such as a sediment trap or basin.
- Berms should be located so as to minimize damage by construction operations and traffic.
- Triangular Silt Dike® berms can be used in locations subject to minor traffic flow.
- Earth berms must be adequately compacted to prevent failure.
- Logs must be delimbed, trenched in and backfilled. If necessary, secure with wooden stakes on either side of the log.
- Rock berms must be constructed of large angular rock. Height and depth of the berm is dependent on the expected storm water flow. Ends of berm should be brought forward to help contain the flow.
- Channel material must be adequate to withstand flow velocity and shear stress.
- Ensure channels are designed and constructed with a defined flow line adequate to convey flows.
- Spillways on berms should be at least 6 inches in depth and should be protected against scour. Use rock or TRM for stabilization of the spillway.

Inspection and Maintenance

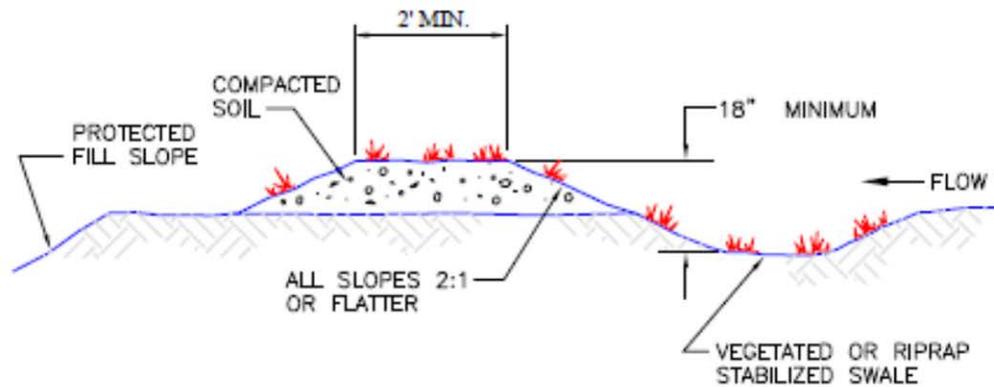
- Seeded areas which fail to establish a vegetative cover shall be reseeded as necessary.
- Damage from vehicle or construction traffic shall be repaired prior to the end of each working day or prior to the next storm event, whichever is sooner.
- Conduct required repairs immediately.
- Temporary berms may be removed when the site has been finally stabilized or when drainage patterns changed so that the berms are no longer functional.
- Berms that are designed to trap sediment should be cleaned out as necessary or after each storm event.
- Inspect for erosion or other damage, and repair.

What not to do...

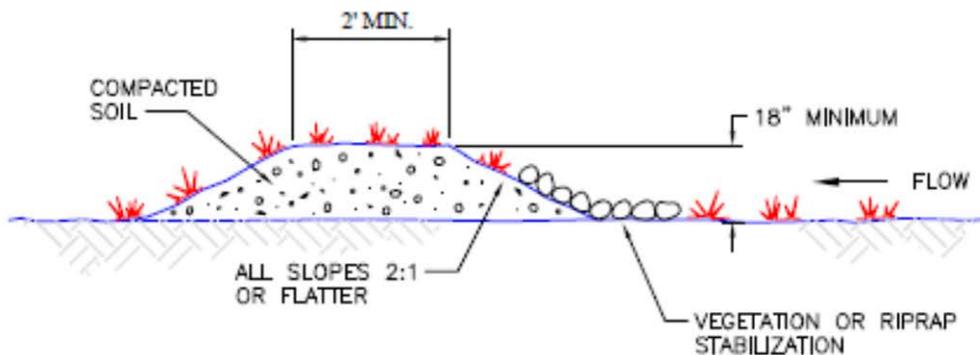


Berm was not well stabilized and could not stand up to run-on flows. Berms and swales should be designed and constructed to handle site specific run-on or run-off flows.

EARTH BERM



TYPICAL FILL DIVERSION

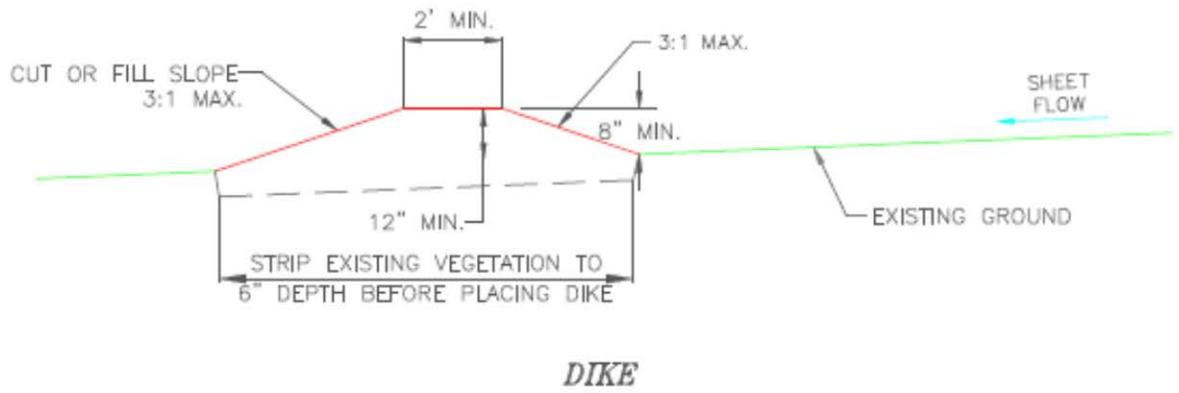
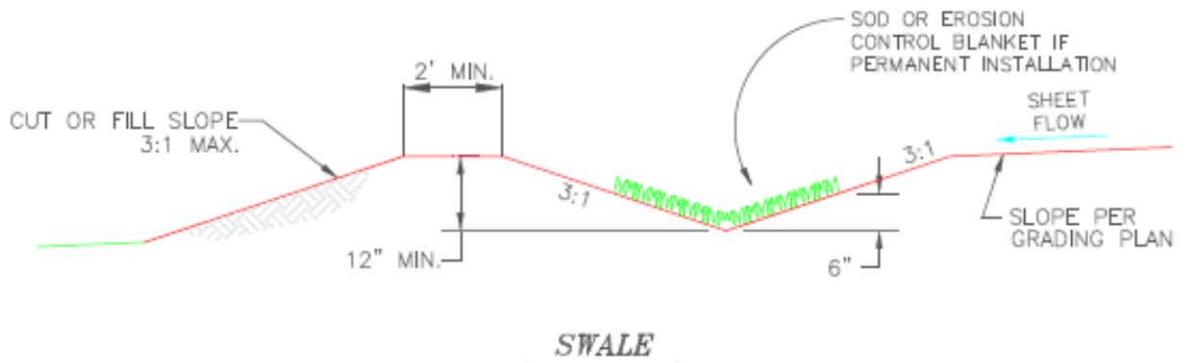


TYPICAL TEMPORARY DIVERSION DIKE

NOTES:

1. THE CHANNEL BEHIND THE BERM SHALL HAVE A POSITIVE GRADE TO A STABILIZED OUTLET.
2. THE BERM SHALL BE ADEQUATELY COMPACTED TO PREVENT FAILURE.
3. THE BERM SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT SEEDING, MATTING, OR OTHER APPLICABLE MEASURES.
4. THE TOP OF THE BERM SHALL HAVE A MINIMUM WIDTH OF 2 FEET AND ALL SIDE SLOPES SHALL BE 2:1 OR FLATTER.

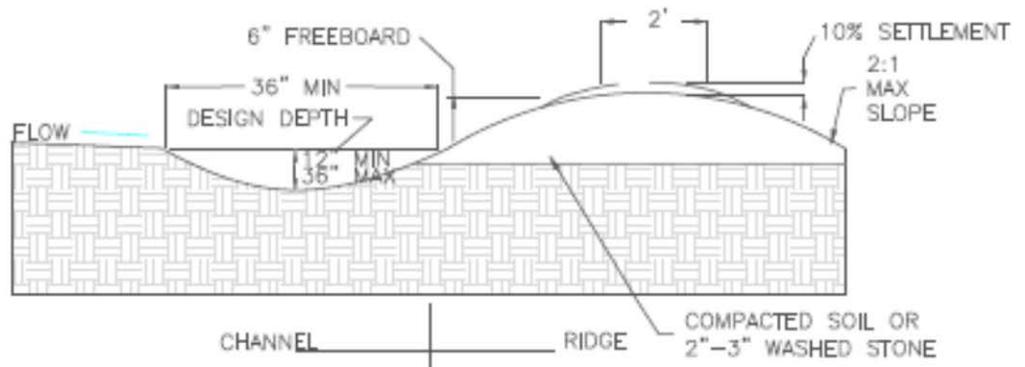
EARTH BERMS & SWALES



NOTES:

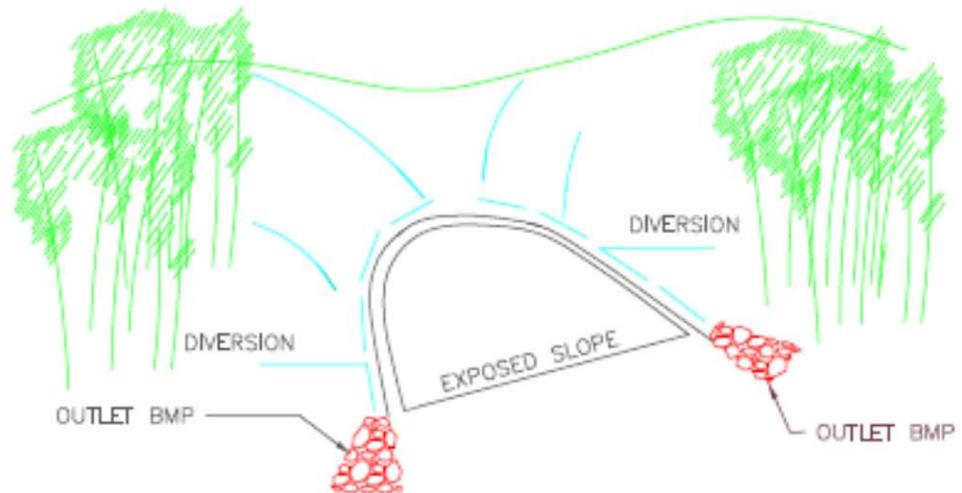
1. DIKE SHALL BE COMPACTED TO DENSITY EQUAL TO THAT SPECIFIED FOR ADJOINING AREA (90% STANDARD PROCTOR DENSITY, MINIMUM).
2. MINIMUM 1% GRADE MUST BE PROVIDED FOR SWALE OR ALONG UPSLOPE SIDE OF DIKE FOR PROPER DRAINAGE.

EARTH BERMS & SWALES

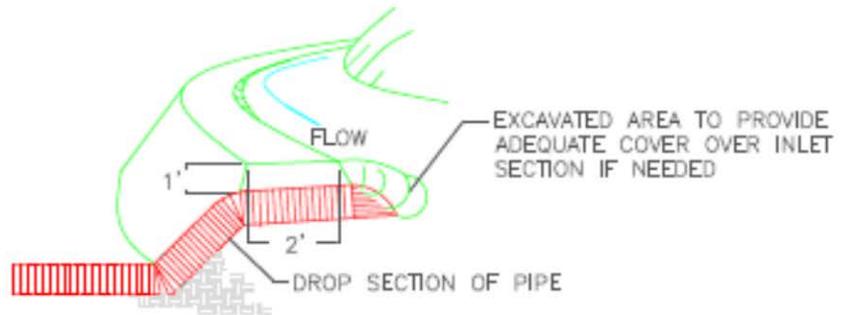


CROSS SECTION

ALL SURFACE STABILIZED WITH MULCH, SEED OR GRAVEL



TYPICAL PERIMETER PROTECTION



TYPICAL TOP OF SLOPE INSTALLATION

GOOD HOUSEKEEPING



Options and Alternatives

- WASTE AND MATERIAL STORAGE AND TRANSPORTATION
- VEHICLE AND EQUIPMENT BMPS
- STREET SWEEPING
- WASHOUT AREAS

Objectives

- REDUCE OR ELIMINATE RUNOFF POLLUTANTS

Description Good housekeeping includes controls that are practices (as opposed to structural controls) that are used to reduce or prevent pollutants.

Applications Low cost alternative to structural BMPs.

Limitations Only prevents the initial migration of pollutants from the source.

Performance and Longevity In general, use of practices to prevent pollutants from contact with storm water is extremely effective.

Good housekeeping practices are implemented before project activities begin and throughout project activities. These practices are temporary in nature and are only meant to last through the construction activity process.

Performance	Poor or N/A	Good	Excellent
Erosion Prevention	x		
Sediment Control	x		
Runoff Control	x		
Good Housekeeping			x

Longevity	Temporary (must be removed)	Long term (may need maintenance)	Permanent	Re-useable
Good housekeeping	x			

Design and Construction Guidance

Material storage

- Designate material storage areas away from the nearest watercourse and in locations that do not receive a substantial amount of upslope run-on.
- Store soils uphill of BMPs or the excavation.
- Hazardous materials, fluids, and chemicals should be placed within covered storage, or a lined berm or other appropriate secondary containment.
- Drums containing liquids or hazardous materials should be stored on secondary containment pallets that minimize storm water accumulation.

Wastes

- Designate a waste collection site that does not drain to a watercourse and that does not receive a substantial amount of upslope run-on.
- Refuse containers should have lids that will remain closed to prevent rain exposure. Bins should be leak proof.
- Waste collection should be scheduled to prevent overflow of refuse.
- Trash, material cuttings, and any other waste should be managed or disposed of at the end of each workday and prior to an anticipated storm event.
- Portable lavatories should be used and maintained in accordance with manufacturer's recommendations; staked to the ground to prevent being knocked over by wind; and lavatory waste must be treated off-site.

Material Transport or Movement

- Material should be transported in appropriate containers or vehicles so that facility locations outside the project boundaries and public roadways will not be adversely impacted through sediment tracking or waste spillage.
- Spill control equipment should be present during any transfer operations.
- Movement of liquid filled containers or transfers of oil or chemicals will not occur during precipitation events
- Containers must be upright and secured to the vehicle/hand truck it is being transported on
- Drums are not to be rolled or tipped, even while empty, to prevent damage to containers
- Containers will be inspected before and after they are transported for leaks or damage.
- Storm drain covers will be used at adjacent storm drains if necessary to prevent a potential spill from entering the storm drain before it would be controlled.
- Transfers from portable containers to equipment occur away from storm drains. Spigots or pumps should be used, do not pour directly from drums. Consider placing absorbent mats before a transfer occurs.

Vehicle and Equipment Refueling & Maintenance

Vehicle and equipment control techniques include:

- Properly covering and providing secondary containment for fuel drums and other similar materials.
- Refueling of equipment shall be conducted at least 100 feet from any storm drain, drainage, or wetland, including dry arroyos. This project has a special exception, as noted in Section 3.3 of this SWPPP, for the generator that will be powering the pump to reroute water around the project area.
- Refueling operations will be completed such that head space is provided within fuel tanks to allow for fuel expansion.
- Develop and implement spill prevention and cleanup plan.
- Maintain a spill kit on site.
- Use a covered, paved area dedicated to vehicle maintenance.
- Wash vehicles and equipment only at facilities approved for washing activity.
- All vehicles and equipment will be observed for leaks and if found drip pans will be used until fixed.
- Leaks will be fixed as soon as practicable and leaking vehicles and equipment will be removed from service and repaired.
- Spills of all products will be cleaned up and managed per applicable state and federal regulations.

Potholing

- Spoils must be properly disposed of.
- Discharge spoils only in approved designated areas.
- Do not discharge to the environment any glycol treated water.

Concrete Washouts

Concrete washouts should be used to contain concrete and liquids when rinsing equipment used for mixing or delivering concrete, or for excess concrete. They consolidate solids for easier disposal and prevent contaminated water from mixing with runoff.

- Washouts should be located a minimum of 100' from a watercourse or storm drain and in a location that allows convenient access for concrete trucks and equipment.
- Containment areas will not be constructed in areas designated as Solid Waste Management Units (SWMUs), Areas of Concern (AOCs), or Treatment Storage and Disposal Facilities (TSDFs).
- Washouts are typically built below grade to prevent breaches and reduce runoff.
- Washouts should be sized to manage both concrete washout and storm water accumulation from precipitation events.
- Use appropriate control measures that act as a continuous line barrier to prevent the runoff of discharges and the co-mingling of discharges with storm water.
- Prefabricated washout containers must protect against spills and leaks, be watertight, and should be used in accordance with manufacturer specifications.
- Inspect washout area for damage and repair as necessary to ensure structure integrity.
- Once a washout facility has reached 75% capacity the materials should be removed and properly disposed of.

Street Sweeping

Street sweeping and vacuuming includes use of self-propelled and walk-behind equipment to remove sediment from streets and roadways.

- Vacuuming is essential because sweeping alone may cause dust pollution and off-site sediment transport.
- Points of site egress are especially vulnerable to off-site sediment tracking.
- A proper construction entrance/exit may be needed if street sweeping efforts are not sufficient to prevent sediment from leaving the site.
- Sweeping and vacuuming may not be effective when sediment is wet or when tracked soil is caked (caked soil may need to be scraped loose).
- Sweeping should be performed at a frequency necessary to minimize visible sediment tracking from the site.

Inspection and Maintenance

- Check that materials are properly stored.
- Check that washout areas are being used.
- Check for vehicle leaks and proper maintenance.
- Check for tracking of sediment from site.

What not to do...



Sweeping without vacuuming causes severe dust migration leading to sediment transport offsite.



Improper waste disposal and storage of waste products.
Containerize and separate waste items for proper disposal.

APPENDIX G:

BMP Design Requirements

APPENDIX H:

Endangered Species Act and Historical Property Documentation



United States Department of the Interior

FISH AND WILDLIFE SERVICE

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

February 12, 1999

Cons. #2-22-98-I-336
Cons. #2-22-95-I-108

David A. Gurule, Acting Area Manager
Department of Energy
Albuquerque Operations Office
Los Alamos Area Office
Los Alamos, New Mexico 87545

Dear Mr. Gurule:

This responds to your letter dated August 6, 1998, requesting our review and concurrence with the Threatened and Endangered Species Habitat Management Plan (HMP) for Los Alamos National Laboratory (LANL). The HMP was prepared by the LANL Ecology Group for the Department of Energy (DOE) as part of the Dual-Axis Radiographic Hydrodynamics Test Facility (DAHRT) Mitigation Action Plan. The U.S. Fish and Wildlife Service (Service) has worked closely with LANL in the development of the HMP. As a result of discussions and meetings following the August 6, 1998, submittal, additional information/clarification was provided via letters, updated Biological Evaluations/HMPs, and e-mail messages, dated September 8, October 20, November 25, and December 9, 1998, and January 4, January 22, and January 29, 1999. The purpose of the HMP is to provide for the protection of threatened and endangered species and their habitats on LANL. The HMP consists of three components that must be used together to assure proper management of the threatened and endangered species: an Overview Document, Site Plans, and Monitoring Plans. It was determined that if all the restrictions and protective measures outlined in the HMP are strictly followed, the implementation of this HMP may affect, but is not likely to adversely affect the Mexican spotted owl (owl), peregrine falcon (falcon), bald eagle (eagle), and southwestern willow flycatcher (flycatcher). The Biological Evaluation (BE) also considered potential impacts on the black-footed ferret, arctic peregrine falcon, and whooping crane. It was determined that there would be no effect on these species because of a lack of habitat.

Property at LANL varies from remote isolation to heavily developed and/or industrialized. The Service agrees, as stated in the Overview document, that a number of activities at LANL have the potential to adversely impact threatened and endangered species. Many of the industrial processes used at LANL have involved hazardous and radioactive materials. These materials as well as remediation of potential release sites may disturb

or reduce population viability of threatened and endangered species. In addition, other potential sources of disturbance or habitat alterations are possible as a result of the residential and commercial development in the LANL area. While the HMP identifies potential sources of adverse effects, this consultation does not necessarily cover all of those impacts. The Service does not anticipate that DOE will be able to plan all of its operations at LANL in accordance with this plan. The direct effects of most actions can be minimized through implementation of the HMP; however, a more thorough assessment is necessary to adequately evaluate the indirect and cumulative impacts of all actions that are funded, authorized, and permitted by DOE, as well as potential impacts from interrelated and interdependent actions. It was agreed (by Service, DOE, and LANL personnel) that consultation concerning ongoing LANL operations would be handled separately from the HMP, under the consultation on the Site-Wide EIS.

The Site Plans identify the particular areas of LANL where operations might impact known occupied or potential habitat for the flycatcher, eagle, falcon, and owl. Suitable habitat for these species, along with protective buffer areas surrounding their habitat, have been designated as Areas of Environmental Interest (AEIs). For the flycatcher, one AEI was established based on an observation of a migrant male flycatcher in 1997. The AEI is located in the Pajarito wetland area and includes the best available riparian habitat. For eagles, one AEI has been identified for wintering habitat that exists along the Rio Grande on the eastern edge of LANL. It is based on the locations of known and potential roost sites. For the falcon, four AEIs have been identified. They consist of the habitat previously identified under the 1985 interagency agreement. These areas are centered on deep canyons on the eastern side of LANL or on adjacent lands. LANL has agreed to implement the recommended management guidelines, which utilize four management zones (A through D) to protect nesting peregrine falcons from disturbance. For the owl, six AEIs have been identified, but only one of these sites is known to be occupied. These AEIs are based on and located in canyons that have been defined as suitable nest/roost habitat.

The AEI management section of each Site Plan provides guidelines for LANL operations to reduce or eliminate threats to each species. The primary threats on LANL property are (1) impacts on habitat quality from LANL operations and (2) disturbance of nesting or roosting birds. The site plans provide information on their location and guidelines for their management. The AEI Site Plans consist of a species description, descriptions of the AEIs for the species, descriptions of current impacts in the AEIs, management plans that describe allowable activities within core and buffer areas under the guidelines of the sites plan and protective measures. Activities discussed in the site plans include day to day activities, such as access into an AEI, as well as long-term projects, such as levels of habitat alteration in the buffer area of an AEI. Restrictions will be implemented on activities that could cause disturbance (people, vehicles and machinery, aircraft, light production, and noise) within occupied AEIs. The location of a potential disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether or not an activity is allowable. Habitat alterations are always restricted in core areas, but a limited amount of future development is allowed in currently undeveloped DOE-controlled buffer areas under the guidelines of this site plan as long

as it does not alter habitat in the undeveloped AEI (including light and noise guidelines). The purpose of buffer areas is to protect core areas from undue disturbance or habitat alteration or habitat degradation. Each AEI is specific to the situation or circumstances of the site it covers. According to the HMP, development beyond the cap established for each AEI, or greater than 2 hectares in size, including the developed-area border, requires independent review for ESA compliance.

Varying amounts of development and/or ongoing activities exist in the cores and buffers of each AEI. These developments may include residential, commercial, and light industrial areas, as well as roads and utility corridors. Existing/ongoing activities may include periodic scientific surveys, power line maintenance, recreational use, residential development, ER Program activities, and possible use of a firing site. Potential disturbance may be associated with automobile and truck traffic, construction activities, a live-fire range, explosives testing, and aircraft traffic at the County airport. Ongoing activities in developed areas constitute a baseline condition for the AEIs and are not restricted. New activities including further development within already existing developed areas are not restricted unless they impact undeveloped portions of an AEI core. If a proposed action within a developed area does not meet site plan guidelines, it must be individually reviewed for ESA compliance.

Some activities such as utility corridor maintenance, fuels management, and a limited amount of development are allowed in each AEI (as described in the HMP). The potential impacts of these activities are considered to be insignificant or discountable because they will occur in habitat that has been previously disturbed or is of poor quality due to its size or proximity to already developed areas. It is our understanding (based on the January 22, 1999, e-mail response from Terry Foxx) that the fuels management activities within the owl AEIs will only consist of ongoing and proposed fire protection activities around existing facilities (e.g. thinning around buildings) or those activities that are already covered under the Dome Fire Emergency BA. The other fire management activities mentioned in the HMP will go through the ESH-ID process and further consultation with the Service when a fire management plan is completed in the future.

In general, activities that detrimentally alter habitat in an AEI or would cause unacceptable disturbance to the species inhabiting the AEI are not allowed under the guidelines of a Site Plan. The Site Plans are designed to minimize impacts to threatened and endangered species and their habitat. The protective measures and restrictions outlined in the Site Plans were developed using the best available data, in cooperation with Service biologists.

The U.S. Fish and Wildlife Service concurs with DOE's determination that implementation of LANL's HMP may affect, but is not likely to adversely affect the Mexican spotted owl, American peregrine falcon, bald eagle, and southwestern willow flycatcher based on the protective measures described in the BA and HMP. If all the restrictions and protective measures outlined in the HMP are strictly followed, potential impacts on owls, falcons, eagles, and flycatchers are expected to be insignificant or

David A. Gurule, Acting Area Manager

4

discountable for the following reasons: 1) appropriate seasonal restrictions will be implemented to avoid disturbance to potentially breeding flycatchers, peregrines, and owls and wintering eagles; 2) no nest or roost habitat for any listed species will be altered; 3) the total amount of potential foraging habitat that could be impacted within each species home ranges is expected to be insignificant compared to the amount of available foraging habitat throughout the area; 4) monitoring plans have been developed as an integral part of the HMP; and 5) a mechanism for incorporating necessary technical and regulatory changes and updating the HMP has been included (page 32 of the Overview Document).

In future communications regarding this project, please refer to Consultation #2-22-98-I-336. If we can be of further assistance, please contact Carol Torrez of my staff at (505) 346-2525, ext. 115.

Sincerely,



Jennifer Fowler-Propst
Field Supervisor

cc:

Teralene Foxx, Project Manager, Ecology Group, Los Alamos National Laboratory,
P.O. Box 1663, Mail Stop M887, Los Alamos, New Mexico 87545
Elizabeth Withers, U.S. Department of Energy, Los Alamos Area Office, 35th Street, Los
Alamos, New Mexico
Field Supervisor, Ecological Services, U.S. Fish and Wildlife Service, Phoenix,
Arizona

APPENDIX I:
SWPPP Training Records

APPENDIX J:

Inspector/SWPPP Preparer Qualifications and Inspections

Inspector/SWPPP Preparer Qualifications

NPDES General Permit for Storm Water Discharges from Construction Activities

Terrill Lemke, P.E., CPESC, CISEC, ENV Division

Qualifications: LANL Team Leader responsible for storm water permitting and compliance at LANL. Involved in the development, implementation, and regulatory review of construction SWPP Plans. Assisted in the development of LANL guidance documents for storm water BMPs. Attended and instructed courses in NPDES storm water permit compliance and sediment and erosion control. Civil engineer with previous experience in construction. Certified Professional in Erosion and Sediment Control (CPESC) and Certified Inspector of Sediment and Erosion Control (CISEC).

Tim Zimmerly CPESC, CISEC, ENV Division

Qualifications: Bachelor of Science in Civil Engineering with over 20 years experience in design engineering/construction/project management/remediation and emergency and spill response. Assisted in the development of LANL guidance documents for storm water BMPs and the development of construction SWPP Plans. SME in field inspections, implementation of BMPs and other controls. Certified Professional in Erosion and Sediment Control (CPESC) and Certified Inspector of Sediment and Erosion Control (CISEC), and familiar with erosion control and storm water requirements for this project.

Jacob Knight, CISEC, ENV Division

Qualifications: Bachelor of Science degree in Biology. Involved in the development and revision of SWPP Plans and site maps. Has demonstrated ability in performing and documenting storm water inspections and is familiar with placement, and maintenance of BMPs. Certified Inspector of Sediment and Erosion Control (CISEC).

Samuel R. Loftin, BS, MS, PhD, CISEC, ENV Division

Qualifications: I received my BS degree in Biology from Western Oregon State University in 1983, my MS in Botany from Arizona State University in 1987 and my Ph.D. in Biology from the University of New Mexico in 1994. I worked on a postdoc research appointment with the USFS Rocky Mountain Research Station in Albuquerque for five years and then started at LANL in 1998. I have over 20 years of professional experience in terrestrial plant ecology, restoration ecology, and vegetation management. I have been working on NPDES permit management at LANL since 2006. I received CISEC certification in June 2010.

Marwin Shendo, CISEC, ENV Division

Qualifications: Received my Bachelor of Science degree in Wildlife Science in 2004 and my Master of Water Resources degree in 2011. I have a year and half experience in performing inspections of NPDES CGP, MSGP, and IP regulated sites; is knowledgeable about implementation and maintenance of BMPs. Certified Inspector of Sediment and Erosion Control (CISEC).

NPDES Construction General Permit Stormwater Site Inspection Report

Project Name				Inspection Date	
Inspector(s) Name and Title				Time of Inspection	
Others Present				Present Phase of Construction	Active Stabilization
Type of inspection	7-Day Monthly	14-Day Precipitation Event <small>*See attached precipitation data</small>		Are there any discharges occurring?	Yes <small>*See attached visual assessment</small> No
Stabilization Has area disturbance ceased for a period of 14 or more days? Yes No N/A Initiated: Yes No Functioning: Yes No		Equipment/Material Storage Area: Present: Yes No Proper Housekeeping: Yes No Proper controls installed to prevent discharge: Yes No		Waste Management Proper Concrete Washout: Yes No N/A Adequate Containment: Yes No N/A Good Housekeeping: Yes No	
Perimeter Controls: Installed: Yes No N/A Functional: Yes No N/A		Porta-Potty Anchored Unanchored N/A		Spills Present None Spill Kit On Site: Yes No N/A	
Sediment Track Out Stabilized Entrance: Yes No N/A Track out observed: Yes No		Discharge points: Visible erosion or sedimentation? Yes No		Stockpiles Present Are proper BMPs in place? Yes No N/A	
50 Foot Buffer Required: Yes No Additional Controls Needed: Yes No		Erosion, Pollution, Sediment Controls: All Operational Required Controls Installed Significant Repair/Replacement Routine Maintenance required Additional control required		SWPPP No updates required Map updates required Land disturbance log update required BMP Log update required Corrective Action Documentation Updated: Yes No Other: _____	

NPDES Construction General Permit Stormwater Site Inspection Report Cont.

Project Name		Date	
<p>Corrective Action Report Required: Yes No</p> <p>This site has been found to be: In Compliance Non-Compliant</p> <p>Reason for non-compliance:</p>			
<p>Inspector Signature: _____ Date: ____/____/____</p>			
<p>Comments:</p>			
<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> <p>LANL</p> <p>Print name and title: _____ Signature: _____ Date: _____</p> <p>Subcontractor</p> <p>Print name and title: _____ Signature: _____ Date: _____</p>			

NPDES Construction General Permit 7 Day Corrective Action Follow-Up

Project Name		Date	
CA #	Follow-up actions or modifications taken or to be taken necessary to address Corrective Actions	Due Date	Date Completed
1			
2			
3			
4			
5			

"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."

Report completed by: _____ Signature: _____ Date: _____

LANL
 Print Name _____ Signature: _____ Date: _____

Subcontractor
 Print Name: _____ Signature: _____ Date: _____

NPDES Construction General Permit 7 Day Corrective Action Follow-Up Cont.

Project Name		Date	
CA #	Follow-up actions or modifications taken or to be taken necessary to address Corrective Actions	Due Date	Date Completed
6			
7			
8			
9			
10			

NPDES Construction General Permit Stormwater Site Corrective Action Report

Project Name:		Date		Time	
CA #	Condition Identified	Nature of condition requiring action			Due Date
1	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping				
2	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping				
3	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping				
4	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping				
5	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping				

NPDES Construction General Permit Stormwater Site Corrective Action Report

CA #	Condition Identified	Nature of condition requiring action	Date	Time	Due Date
Project Name:					
6	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping				
7	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping				
8	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping				
9	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping				
10	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping				

NPDES Construction General Permit Stormwater Site Corrective Action Report

Notes/Observations:

CAs identified by: SWPPP Inspector Site representative Other:

Print name and title of identifier of corrective actions: _____

Signature: _____ Date: _____

"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."

LANL

Print name and title: _____ Signature _____ Date _____

Subcontractor

Print name and title: _____ Signature _____ Date _____

APPENDIX K:
Inspections and Corrective Actions

NPDES Construction General Permit Stormwater Site Inspection Report

Project Name	CrCH-6 R-67 Well Project	Inspection Date	6-29-15
Inspector(s) Name and Title	Jacob Knight - CISEC	Time of Inspection	11:30
Others Present	Mark Lopez	Present Phase of Construction	<input checked="" type="checkbox"/> Active <input type="checkbox"/> Stabilization
Type of Inspection	<input type="checkbox"/> 7-Day <input type="checkbox"/> 14-Day <input type="checkbox"/> Monthly <input checked="" type="checkbox"/> Precipitation Event <small>*See attached precipitation data</small>	Are there any discharges occurring?	<input type="checkbox"/> Yes <small>*See attached visual assessment</small> <input checked="" type="checkbox"/> No
Stabilization Has area disturbance ceased for a period of 14 or more days? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Initiated: <input type="checkbox"/> Yes <input type="checkbox"/> No Functioning: <input type="checkbox"/> Yes <input type="checkbox"/> No	Equipment/Material Storage Area: Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Proper Housekeeping: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Proper controls installed to prevent discharge: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waste Management Proper Concrete Washout: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Adequate Containment: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Good Housekeeping: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Perimeter Controls: Installed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Functional: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Porta-Potty <input type="checkbox"/> Anchored <input type="checkbox"/> Unanchored <input checked="" type="checkbox"/> N/A	Spills <input type="checkbox"/> Present <input checked="" type="checkbox"/> None Spill Kit On Site: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sediment Track Out Stabilized Entrance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Track out observed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Discharge points: Visible erosion or sedimentation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stockpiles <input checked="" type="checkbox"/> Present Are proper BMPs in place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
50 Foot Buffer Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Additional Controls Needed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Erosion, Pollution, Sediment Controls: <input checked="" type="checkbox"/> All Operational <input type="checkbox"/> Required Controls Installed <input type="checkbox"/> Significant Repair/Replacement <input type="checkbox"/> Routine Maintenance required <input type="checkbox"/> Additional control required	SWPPP <input checked="" type="checkbox"/> No updates required <input type="checkbox"/> Map updates required <input type="checkbox"/> Land disturbance log update required <input type="checkbox"/> BMP Log update required Corrective Action Documentation Updated: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other: _____	

NPDES Construction General Permit Stormwater Site Inspection Report Cont.

Project Name	CrCH-6 R-67 Well Project	Date	6-29-15
Corrective Action Report Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No This site has been found to be: <input checked="" type="checkbox"/> In Compliance <input type="checkbox"/> Non-Compliant Reason for non-compliance:			
Inspector Signature: 		Date: <u>6, 29, 15</u>	
Comments: Excavation of the cuttings pit began on Friday 6-26-15. The asphalt and millings in the area were relocated to the north within the TA-61 borrow pit area. The project area near the cuttings pit excavation activities is stabilized with plenty of asphalt millings and looks good. The excavated material for the cuttings pit is being placed around it to function as a 2 foot high berm, that will serve as run on protection and add capacity to the pit. The pit will be lined with plastic and the berms will be stabilized with base course. Some of the material is being placed close to the berm on the south side, which is the sediment control BMP for this project. I advised that the berm should not be covered, or have it's sediment retention capacity decreased, or additional controls may be required.			
<p style="font-size: small;">"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>			
LANL Print name and title: Michael R. Alexander		Signature:  Date: <u>7-16-15</u>	
Subcontractor Print name and title: <u> </u>		Signature: <u> </u> Date: <u> </u>	

"TOA5", "22862", "CR800", "22862", "CR800.Std.24", "CPU:Rain_Program.CR8", "378
11", "StormTot"
"TIMESTAMP", "RECORD", "Storm_total"
"TS", "RN", "inch"
"", "", "Smp"
"2015-06-17 14:36:55", 748, 0.03
"2015-06-18 18:34:45", 749, 0.01
"2015-06-24 20:22:35", 750, 0.01
"2015-06-24 20:35:00", 751, 0.01
"2015-06-26 19:31:55", 752, 0.3599999
"2015-06-26 20:00:40", 753, 0.06999999
"2015-06-26 22:14:55", 754, 0.14

NPDES Construction General Permit Stormwater Site Inspection Report

Project Name	Cret-6 R-67 WELL PAD	Inspection Date	7/6/2015
Inspector(s) Name and Title	TIM ZIMMERLICH CPESC, CISEC	Time of Inspection	1:00 PM
Others Present	RAY HURTADO JOHNNY SALAZAR CONTACTED VIA PHONE	Present Phase of Construction	<input checked="" type="checkbox"/> Active <input type="checkbox"/> Stabilization
Type of inspection	<input type="checkbox"/> 7-Day <input type="checkbox"/> 14-Day <input type="checkbox"/> Monthly <input checked="" type="checkbox"/> Precipitation Event > 0.25" AT <small>*See attached precipitation data</small>	Are there any discharges occurring?	<input type="checkbox"/> Yes <small>*See attached visual assessment</small> <input checked="" type="checkbox"/> No
Stabilization Has area disturbance ceased for a period of 14 or more days? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Initiated: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <small>MILLING S</small> Functioning: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Equipment/Material Storage Area: Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Proper Housekeeping: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Proper controls installed to prevent discharge: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waste Management Proper Concrete Washout: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Adequate Containment: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Good Housekeeping: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Perimeter Controls: Installed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Functional: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Porta-Potty <input type="checkbox"/> Anchored <input type="checkbox"/> Unanchored <input checked="" type="checkbox"/> N/A	Spills <input type="checkbox"/> Present <input checked="" type="checkbox"/> None Spill Kit On Site: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sediment Track Out Stabilized Entrance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Track out observed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Discharge points: Visible erosion or sedimentation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stockpiles <input checked="" type="checkbox"/> Present Are proper BMPs in place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
50 Foot Buffer Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Additional Controls Needed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Erosion, Pollution, Sediment Controls: <input checked="" type="checkbox"/> All Operational <input type="checkbox"/> Required Controls Installed <input type="checkbox"/> Significant Repair/Replacement <input type="checkbox"/> Routine Maintenance required <input type="checkbox"/> Additional control required	SWPPP <input checked="" type="checkbox"/> No updates required <input type="checkbox"/> Map updates required <input type="checkbox"/> Land disturbance log update required <input type="checkbox"/> BMP Log update required Corrective Action Documentation Updated: <input type="checkbox"/> Yes <input type="checkbox"/> No Other: _____	

NPDES Construction General Permit Stormwater Site Inspection Report Cont.

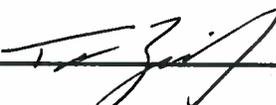
Project Name	<u>C. CH-G R-G7 WELL PAD</u>	Date	<u>7/6/2015</u>
Corrective Action Report Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No This site has been found to be: <input checked="" type="checkbox"/> In Compliance <input type="checkbox"/> Non-Compliant Reason for non-compliance:			
Inspector Signature: <u></u> Date: <u>7/6/2015</u>			
Comments: <u>CLIPPING PIT EXC. COMPLETE. CREWS ARE REGRAPPING OUTSIDE SLOPES OF PIT BERM. ADDITIONAL BACKFILL WILL BE PLACED BETWEEN PIT BERM AND BERM PERIMETER CONTRL TO ALLOW WATER TO DRAIN FROM THE SOUTH SIDE TO THE MAIN PART OF THE BORROW PIT YARD.</u>			
"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."			
LANL	Michael R. Alexander	Signature: <u></u>	Date: <u>7-16-15</u>
Subcontractor	Print name and title: <u></u>	Signature: _____	Date: _____

"TOA5", "22862", "CR800", "22862", "CR800.Std.24", "CPU:Rain_Program.CR8", "378
11", "StormTot"
"TIMESTAMP", "RECORD", "Storm_total"
"TS", "RN", "inch"
" ", " ", "Smp"
"2015-07-02 16:05:25", 760, 0.07999999
"2015-07-02 16:27:05", 761, 0.02
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"2015-07-02 18:33:00", 763, 0.01
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"2015-07-03 16:00:15", 766, 0.18
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"2015-07-04 13:07:55", 768, 0.01
"2015-07-05 19:30:20", 769, 0.32
"2015-07-05 21:42:00", 770, 0.33
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"2015-07-05 22:36:05", 773, 0.01
"2015-07-05 23:15:00", 774, 0.06
"2015-07-06 00:45:35", 775, 0.01

NPDES Construction General Permit Stormwater Site Inspection Report

Project Name	CR-CH R-67 WELL PAD CONSR	Inspection Date	7/7/2015
Inspector(s) Name and Title		Time of Inspection	2:15pm
Others Present	RAY HURTADO JOHANN SALAZAR ON PHONE	Present Phase of Construction	<input checked="" type="checkbox"/> Active <input type="checkbox"/> Stabilization
Type of inspection	<input type="checkbox"/> 7-Day <input type="checkbox"/> Monthly <input checked="" type="checkbox"/> 14-Day <input checked="" type="checkbox"/> Precipitation Event ^{>0.25"} <small>*See attached precipitation data</small>	Are there any discharges occurring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <small>*See attached visual assessment</small>
Stabilization Has area disturbance ceased for a period of 14 or more days? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Initiated: <input type="checkbox"/> Yes <input type="checkbox"/> No Functioning: <input type="checkbox"/> Yes <input type="checkbox"/> No	Equipment/Material Storage Area: Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Proper Housekeeping: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Proper controls installed to prevent discharge: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waste Management Proper Concrete Washout: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Adequate Containment: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Good Housekeeping: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Perimeter Controls: Installed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Functional: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <small>WORK IN PROGRESS</small>	Porta-Potty <input type="checkbox"/> Anchored <input type="checkbox"/> Unanchored <input checked="" type="checkbox"/> N/A	Spills <input type="checkbox"/> Present <input checked="" type="checkbox"/> None Spill Kit On Site: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sediment Track Out Stabilized Entrance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Track out observed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Discharge points: Visible erosion or sedimentation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stockpiles <input checked="" type="checkbox"/> Present Are proper BMPs in place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
50 Foot Buffer Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Additional Controls Needed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Erosion, Pollution, Sediment Controls: <input type="checkbox"/> All Operational <input type="checkbox"/> Required Controls Installed <input checked="" type="checkbox"/> Significant Repair/Replacement <input type="checkbox"/> Routine Maintenance required <input type="checkbox"/> Additional control required <small>WORK IN PROGRESS ON EXISTING BERM</small>	SWPPP <input checked="" type="checkbox"/> No updates required <input type="checkbox"/> Map updates required <input type="checkbox"/> Land disturbance log update required <input type="checkbox"/> BMP Log update required Corrective Action Documentation Updated: <input type="checkbox"/> Yes <input type="checkbox"/> No Other: _____	

NPDES Construction General Permit Stormwater Site Inspection Report Cont.

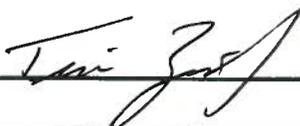
Project Name	C/CH R-07 WELL PAD PROJ	Date	7/7/2015
Corrective Action Report Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No This site has been found to be: <input checked="" type="checkbox"/> In Compliance <input type="checkbox"/> Non-Compliant Reason for non-compliance:			
Inspector Signature: <u></u> Date: <u>7/7/2015</u>			
Comments: CREWS ARE WORKING TO RE-ESTABLISH BERM ON SOUTH SIDE AREA BUILT UP W/ FILL BETWEEN CUTTINGS PIT BERM AND EXISTING BERM TO FLOW FROM SOUTH TO NORTH. WATER ACCUMULATED IN CUTTINGS PIT AND WAS PUMPED OUT TO AN AREA ON SITE - EXISTING STORM WATER ACCUMULATION AREA.			
"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."			
LANT Print name and title: <u>Michael R. Alexander</u> Signature: <u></u> Date: <u>7-16-15</u>			
Subcontractor Print name and title: _____ Signature: _____ Date: _____			

"TOA5", "22862", "CR800", "22862", "CR800.Std.24", "CPU:Rain_Program.CR8", "378
11", "StormTot"
"TIMESTAMP", "RECORD", "Storm_total"
"TS", "RN", "inch"
"", "", "Smp"
"2015-07-06 14:06:05", 776, 0.15
"2015-07-06 15:12:05", 777, 0.01
"2015-07-06 15:49:00", 778, 0.02
"2015-07-06 22:31:25", 779, 0.04
"2015-07-06 23:49:10", 780, 0.04
"2015-07-07 03:03:15", 781, 0.01
"2015-07-07 06:02:30", 782, 0.8399995
"2015-07-07 06:18:25", 783, 0.01

NPDES Construction General Permit Stormwater Site Inspection Report

Project Name	G/CH-6 R-67 WELL PAD CONSTRUCTION	Inspection Date	7/13/2015
Inspector(s) Name and Title	TIM ZIMMERT GPESC, CISEC	Time of Inspection	11:15 am
Others Present	JOHNNY SACABER VIA PHONE RAY HURTADO - ON-SITE	Present Phase of Construction	<input checked="" type="checkbox"/> Active <input type="checkbox"/> Stabilization
Type of inspection	<input type="checkbox"/> 7-Day <input type="checkbox"/> 14-Day <input type="checkbox"/> Monthly <input checked="" type="checkbox"/> Precipitation Event	Are there any discharges occurring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <small>*See attached visual assessment</small>
Stabilization Has area disturbance ceased for a period of 14 or more days? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Initiated: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Functioning: <input type="checkbox"/> Yes <input type="checkbox"/> No	Equipment/Material Storage Area: Present: <input type="checkbox"/> Yes <input type="checkbox"/> No Proper Housekeeping: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Proper controls installed to prevent discharge: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waste Management Proper Concrete Washout: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Adequate Containment: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Good Housekeeping: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Perimeter Controls: Installed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Functional: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Porta-Potty: <input type="checkbox"/> Anchored <input checked="" type="checkbox"/> Unanchored <input type="checkbox"/> N/A	Spills <input type="checkbox"/> Present <input checked="" type="checkbox"/> None Spill Kit On Site: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sediment Track Out Stabilized Entrance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Track out observed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Discharge points: Visible erosion or sedimentation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stockpiles <input checked="" type="checkbox"/> Present Are proper BMPs in place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
50 Foot Buffer Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Additional Controls Needed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Erosion, Pollution, Sediment Controls: <input type="checkbox"/> All Operational <input type="checkbox"/> Required Controls Installed <input type="checkbox"/> Significant Repair/Replacement <input checked="" type="checkbox"/> Routine Maintenance required <input type="checkbox"/> Additional control required	SWPPP <input type="checkbox"/> No updates required <input checked="" type="checkbox"/> Map updates required <i>DONE T3</i> <input checked="" type="checkbox"/> Land disturbance log update <i>DONE T3</i> required <input type="checkbox"/> BMP Log update required Corrective Action Documentation Updated: <input type="checkbox"/> Yes <input type="checkbox"/> No Other: _____	

NPDES Construction General Permit Stormwater Site Inspection Report Cont.

Project Name	<u>CRCH-6</u> <u>R-67 WELL PAD CONSTRUCTION</u>	Date	<u>7/13/2015</u>
Corrective Action Report Required: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No This site has been found to be: <input checked="" type="checkbox"/> In Compliance <input type="checkbox"/> Non-Compliant Reason for non-compliance:			
Inspector Signature: <u></u>		Date: <u>7/13/2015</u>	
Comments: <u>CREWS APPLYING MILLINGS FOR STABILIZATION TO PAD AREA FOR STABILIZATION. FOUR PORTA-POTTYS NOW ON SITE.</u>			
"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."			
LANL	<u>Michael R. Alexander</u>	Signature: <u></u>	Date: <u>7-16-15</u>
Subcontractor	Print name and title: <u></u>	Signature: _____	Date: _____

NPDES Construction General Permit Stormwater Site Corrective Action Report

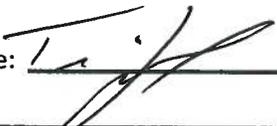
Project Name: C/CH-6 R-67 WELL PAD CONSTRUCTION		Date: 7/13/15	Time: 11:15am
CA #	Condition Identified	Nature of condition requiring action	Due Date
1	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input checked="" type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping	4- PORTA-POTTYS BROUGHT RECENTLY TO SITE ARE NOT ANCHORED DOWN PER SWPP PLAN	7/14/15
2	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping		
3	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping		
4	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping		
5	<input type="checkbox"/> All required Controls <input type="checkbox"/> Additional Controls <input type="checkbox"/> Control Maintenance <input type="checkbox"/> Replace/Repair Control <input type="checkbox"/> Track-Out <input type="checkbox"/> Stabilization <input type="checkbox"/> Housekeeping <input type="checkbox"/> Spill <input type="checkbox"/> Material/Waste Storage <input type="checkbox"/> Record Keeping		

NPDES Construction General Permit Stormwater Site Corrective Action Report

Notes/Observations: PORTA-PITTIS DELIVERED TODAY PER RAY HURTADO

CAs identified by: SWPPP Inspector Site representative Other:

Print name and title of identifier of corrective actions: TIM ZIMMERTLY SUPERVISOR

Signature:  Date: 7/13/15

"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."

LANL

Print name and title: Michael R. Alexander Signature  Date 7-16-15

Subcontractor

Print name and title: N/A Signature _____ Date _____

"TOA5", "22862", "CR800", "22862", "CR800.Std.24", "CPU:Rain_Program.CR8", "378
11", "StormTot"
"TIMESTAMP", "RECORD", "Storm_total"
"TS", "RN", "inch"
" ", " ", "Smp"
"2015-07-09 00:57:40", 787, 0.02
"2015-07-12 22:15:25", 788, 0.3

NPDES Construction General Permit Stormwater Site Inspection Report

Project Name	R-67 WELL PAD CONST	Inspection Date	7/16/15
Inspector(s) Name and Title	TIM ZIMMARELY CPARK, CISEC	Time of Inspection	11:55 am
Others Present	JON ROBERSON JOHNNY SALAZAR VIA PHONE	Present Phase of Construction	<input type="checkbox"/> Active <input checked="" type="checkbox"/> Stabilization
Type of inspection	<input type="checkbox"/> 7-Day <input type="checkbox"/> 14-Day <input type="checkbox"/> Monthly <input checked="" type="checkbox"/> Precipitation Event	Are there any discharges occurring? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	*See attached visual assessment <input checked="" type="checkbox"/> No
Stabilization Has area disturbance ceased for a period of 14 or more days? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Initiated: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Functioning: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Equipment/Material Storage Area: Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Proper Housekeeping: <input type="checkbox"/> Yes <input type="checkbox"/> No Proper controls installed to prevent discharge: <input type="checkbox"/> Yes <input type="checkbox"/> No	Waste Management Proper Concrete Washout: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Adequate Containment: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Good Housekeeping: <input type="checkbox"/> Yes <input type="checkbox"/> No	Perimeter Controls: Installed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Functional: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Sediment Track Out Stabilized Entrance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Track out observed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Discharge points: Visible erosion or sedimentation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Spills <input type="checkbox"/> Present <input checked="" type="checkbox"/> None Spill Kit On Site: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Stockpiles <input type="checkbox"/> Present Are proper BMPs in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
50 Foot Buffer Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Additional Controls Needed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Erosion, Pollution, Sediment Controls: <input type="checkbox"/> All Operational <input type="checkbox"/> Required Controls Installed <input type="checkbox"/> Significant Repair/Replacement <input checked="" type="checkbox"/> Routine Maintenance required <input type="checkbox"/> Additional control required	SWPPP <input type="checkbox"/> No updates required <input type="checkbox"/> Map updates required <input checked="" type="checkbox"/> Land disturbance log update required <input type="checkbox"/> BMP Log update required Corrective Action Documentation Updated: <input type="checkbox"/> Yes <input type="checkbox"/> No Other: _____	

NPDES Construction General Permit Stormwater Site Inspection Report Cont.

Project Name	R-67 WELL PAD CONST.	Date	7/16/2015
Corrective Action Report Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No This site has been found to be: <input checked="" type="checkbox"/> In Compliance <input type="checkbox"/> Non-Compliant Reason for non-compliance:			
Inspector Signature: 		Date: 7/16/2015	
Comments: MSS CREWS NOT ON SITE AS OF THURSDAY 7/14. PORTA POTT'S BELONG TO TPMR AND ARE NOT IN FINAL LOCATION AND WILL BE RELOCATED TODAY PER TOMMY SOWER AND JON ROBERSON RAIN RAN FROM SOUTH SIDE OF PAD TO LOWER SIDE TOWARD EAST END OF PAD. NO EROSION ISSUES OBSERVED. ENTIRE PAD WAS STABILIZED WITH ASPHALT MILLINGS ^{NORTH}			
"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."			
LANL			
Print name and title: Michael R. Alexander		Signature: 	Date: 7-16-15
Subcontractor			
Print name and title: 		Signature: _____	Date: _____

"TOA5", "22862", "CR800", "22862", "CR800.Std.24", "CPU:Rain_Program.CR8", "378
11", "StormTot"
"TIMESTAMP", "RECORD", "Storm_total"
"TS", "RN", "inch"
" ", " ", "Smp"
"2015-07-14 18:30:05", 789, 0.05
"2015-07-15 00:49:30", 790, 0.01
"2015-07-15 12:08:20", 791, 0.7799995
"2015-07-15 13:09:10", 792, 0.17

NPDES Construction General Permit Stormwater Site Inspection Report

Project Name	R-67 Well Pad Const.	Inspection Date	7/21/15
Inspector(s) Name and Title	Tim Zimmerman, CPESC, CISRC	Time of Inspection	2:45 pm
Others Present		Present Phase of Construction	<input type="checkbox"/> Active <input checked="" type="checkbox"/> Stabilization
Type of inspection	<input type="checkbox"/> 7-Day <input type="checkbox"/> 14-Day <input type="checkbox"/> Monthly <input checked="" type="checkbox"/> Precipitation Event	Are there any discharges occurring? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	*See attached precipitation data on 7/20/15 >0.25" at 11:50 AM 31.51"
Stabilization Has area disturbance ceased for a period of 14 or more days? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Initiated: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Functioning: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Equipment/Material Storage Area: Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Proper Housekeeping: <input type="checkbox"/> Yes <input type="checkbox"/> No Proper controls installed to prevent discharge: <input type="checkbox"/> Yes <input type="checkbox"/> No	Waste Management Proper Concrete Washout: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Adequate Containment: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Good Housekeeping: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Perimeter Controls: Installed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Functional: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Porta-Potty <input checked="" type="checkbox"/> Anchored <input type="checkbox"/> Unanchored <input type="checkbox"/> N/A	Spills <input type="checkbox"/> Present <input checked="" type="checkbox"/> None Spill Kit On Site: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sediment Track Out Stabilized Entrance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Track out observed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Discharge points: Visible erosion or sedimentation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stockpiles <input type="checkbox"/> Present Are proper BMPs in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
50 Foot Buffer Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Additional Controls Needed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Erosion, Pollution, Sediment Controls: <input checked="" type="checkbox"/> All Operational <input type="checkbox"/> Required Controls Installed <input type="checkbox"/> Significant Repair/Replacement <input type="checkbox"/> Routine Maintenance required <input type="checkbox"/> Additional control required	SWPPP <input checked="" type="checkbox"/> No updates required <input type="checkbox"/> Map updates required <input type="checkbox"/> Land disturbance log update required <input type="checkbox"/> BMP Log update required Corrective Action Documentation Updated: <input type="checkbox"/> Yes <input type="checkbox"/> No Other: _____	

NPDES Construction General Permit Stormwater Site Inspection Report Cont.

Project Name	<u>R-67 WELC PAD CONST.</u>	Date	<u>7/21/2015</u>
Corrective Action Report Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No This site has been found to be: <input checked="" type="checkbox"/> In Compliance <input type="checkbox"/> Non-Compliant Reason for non-compliance:			
Inspector Signature: <u></u> Date: <u>7, 21, 2015</u>			
Comments: <u>PORTABLE TOILETS HAVE BEEN ANCHORED LAST WEEK 7/17/15</u> <u>SITE BARRIRED AND WILL BE CLOSED OUT</u>			
<small>"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."</small>			
LANL Print name and title: <u>Michael R. Alexander</u> Signature: <u></u> Date: <u>7-21-15</u>			
Subcontractor Print name and title: <u></u> Signature: _____ Date: _____			

"TOA5", "22862", "CR800", "22862", "CR800.Std.24", "CPU:Rain_Program.CR8", "378
11", "StormTot"
"TIMESTAMP", "RECORD", "Storm_total"
"TS", "RN", "inch"
" ", " ", "Smp"
"2015-07-20 21:24:05", 796, 0.9099994
"2015-07-20 22:24:00", 797, 0.15
"2015-07-20 22:34:30", 798, 0.01
"2015-07-21 00:36:35", 799, 0.4499998

