



Environmental Protection Division
Environmental Compliance Programs (ENV-CP)
PO Box 1663, K490
Los Alamos, New Mexico 87545
(505) 667-0666

Date: **APR 14 2014**
Symbol: ENV-DO-14-0083
LAUR: 14-21843

Ms. Jennifer Lillard
U.S. Army Corps of Engineers
Albuquerque District
Regulatory Division, CESPARD
4101 Jefferson Plaza NE
Albuquerque, NM 87109-3435

Mr. Neal Schaeffer
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 5469
Santa Fe, New Mexico 87502-5469

Dear Ms. Lillard and Mr. Schaeffer:

Subject: Request for Authorization to Conduct Stabilization and Habitat Restoration Work in Pueblo Canyon

Pursuant to the requirements of the 2012 Nationwide Permits, the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) request authorization from the U.S. Army Corps of Engineers (ACOE) to conduct stabilization activities in the Pueblo Canyon water course. The storm events of September 2013 caused significant erosional damage to an existing wetland. Significant loss of riparian habitat occurred during the storm and set the stream channel at a new lower incised location for much of the project area. In addition, the storm events exposed Pre-Cerro Grande sediments which contain the highest concentration of contaminants from releases early in the Laboratory's history.

The objective of this project is to stabilize conditions to promote channel and headcut stability and promote the re-establishment of riparian plants. These actions will aid in the reduction of current and long-term sediment transfer. This letter, the pre-construction notification (Enclosure 1) and enclosures are in support of the DOE/LANS application for authorization from the ACOE to conduct work in Pueblo Canyon under Nationwide Permit No.27 *Aquatic Habitat Restoration, Establishment, and Enhancement Activities*.

The approaches to achieving project objectives include phased activities to ensure adequate long-term stabilization:

- Interim measures to eliminate additional headcutting
- Bank stabilization in locations with the highest contaminant concentrations (Restoration Area 2)



- Wetland restoration and stabilization in the upper channel segment (Restoration Area 1) through transfer of existing reed canary grass sod from flood abandoned terrace (former channel elevation) into new inset channel area.
- Identify suitable locations for willow planting
- Initiate willow planting in select areas
- Monitor for adaptive management through the 2014 monsoon season
- Manage activities under provisions of the NPDES Construction General Permit, including implementation of a Project Storm Water Pollution Prevention Plan
- Implement permanent stabilization measures in the current locations of channel headcutting as part of Phase 2
- Implement riparian area willow planting

The General Scope Provision (see map in enclosure 2 for location details)

A. Restoration Area 1

Interim Headcut Stabilization

1. Limited re-grading of vertical slope to provide a 2:1 max slope for surface water to enter channel in the interim headcut stabilization area.
2. Any excess cut material from the interim headcut stabilization work will be used for fill in the headcut fill area.
3. The interim headcut stabilization area will be armored with an erosion control matting facia for interim bank stabilization prior to a second phase of permanent stabilization.

Bank pushdown area

4. Push down the remaining vertical banks on the south side of the channel in Restoration Area 1. This work, termed the bank pushdown area, will not require transfer of pushdown material. Instead, a 1:1 push to fill balance will be maintained. Pushing the upper part of the bank into the floodplain in a 2:1 max slope configuration. The bank heights vary in this area but average a 3 foot height. The lower 2 feet of bank will be wrapped with erosion control matting as permanent bank protection.

Sod Mat Transfer

5. Transfer existing reed canary grass sod mat from abandoned terrace to inset channel elevation.

B. Restoration Area 1 and 2

Willow/Coir Log Bank Protection

1. Coir logs installed along pre-Cerro Grande exposed banks faced with willows on a tight spacing (as field conditions allow).
2. Coir logs to be placed at the toe of the banks and not to exceed 3 feet in height.
3. Coir logs staked every 4 feet.
4. Coir logs diversion area
 - a. Place a series of coir logs angled approximately 35 degrees in the downstream direction to divert overbank flows towards the interim headcut stabilization measure.

C. Restoration Area 1, 2, and 3

Willow planting

1. Willow planting in riparian area with shallow water table.
2. Plant willows using high pressures small diameter water jet tool, small diameter auger (2" diameter or less) or pushed into sediments.
3. Willows to be planted to a depth of 2 feet deep where conditions allow.
4. Willow spacing tightest along existing edge of water and spacing decreases with increased distance from stream. Spacing and locations dependent upon depth to refusal (bedrock) and depth to water.

D. Monitoring of geomorphic changes and adaptive management associated with the mitigation measures will be conducted using the following methods:

1. repeat cross-section surveys
2. channel thalweg surveys
3. general area surveys
4. Photographic documentation of baseline conditions
5. Annual photographs of treated areas to document growth and re-growth

These surveys will be conducted at locations in Restoration Areas 1-3. Surveys will be conducted annually in late fall, winter, or early spring to document geomorphic changes that may have occurred during the previous summer season.

Because this activity involves the removal of sediments from Waters of the U.S., the Laboratory is aware that measures must be taken to minimize impacts. Activities are planned during late spring and early summer when stream flows are less than seasonal peak values. As necessary, flowing water will be temporarily diverted around the work site. The project is subject to the provisions of the NPDES Storm Water Construction General Permit and application of Storm Water Pollution Prevention Plan.

The project was evaluated by Laboratory subject matter experts to determine compliance with the National Historic Preservation Act, the Endangered Species Act, and the National Environmental Policy Act. The findings are contained in Enclosure 4.

Please contact Robert Gallegos at (505) 665-0450 or by email at rgallegos@lanl.gov if you have questions regarding this application.

Sincerely,


Anthony R. Grieggs
Group Leader
Environmental Compliance Programs
Los Alamos National Security LLC

ARG:RMG/lm

Enclosures:

1. Nationwide Permit Pre-Construction Notification (PCN) Form
2. Vicinity Map – Indicating Restoration Area Locations and Project Features
3. Dredge and Fill Quantities Worksheet
4. Memorandum - LANS Determinations for Cultural and Biological Resources and National Environmental Policy Act Compliance

Cy: James Hogan, NMED/SWQB, Santa Fe, NM, (E-File)
Stephen M. Yanicak, NMED/DOE/OB, (E-File)
Gene E. Turner, NA-00-LA, (E-File)
Eric L. Trujillo, NA-00-LA, (E-File)
Carl A. Beard, PADOPS, (E-File)
Michael T. Brandt, ADESH, (E-File)
Alison M. Dorries, ENV-DO, (E-File)
Michael T. Saladen, ENV-CP, (E-File)
Steven J. Veenis, CAP, (E-File)
Robert M. Gallegos, ENV-CP, (E-File)
LASOmailbox@nnsa.doe.gov, (E-File)
locatsteam@lanl.gov, (E-File)
ENV-CP Correspondence File, K490

ENCLOSURE 1

**Nationwide Permit Pre-Construction Notification
(PCN) Form**

ENV-DO-14-0083

LAUR-14-21843

Date: APR 14 2014

U.S. Army Corps of Engineers South Pacific Division



Nationwide Permit Pre-Construction Notification (PCN) Form

This form integrates requirements of the U.S. Army Corps of Engineers Nationwide Permit Program within the South Pacific Division (SPD), including General and Regional Conditions. You MUST fill out all boxes related to the work being done. Fillable boxes in this form expand if additional space is needed.

Box 1 Project Name Pueblo Canyon Stabilization Project			
Applicant Name Steven J. Veenis		Applicant Title	
Applicant Company, Agency, etc.		Applicant's internal tracking number (if any) Project Manager	
Mailing Address P.O. Box 1663 Mail Stop 997 Los Alamos, NM 87545			
Work Phone with area code 505.667.0013	Mobile Phone with area code	Home Phone with area code	Fax # with area code
E-mail Address veenis@lanl.gov		Relationship of applicant to property: <input type="checkbox"/> Owner <input type="checkbox"/> Purchaser <input type="checkbox"/> Lessee <input checked="" type="checkbox"/> Other:	
Application is hereby made for verification that subject regulated activities associated with subject project qualify for authorization under a U.S. Army Corps of Engineers Nationwide Permit or Permits as described herein. I certify that I am familiar with the information contained in this application and, that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities. I hereby grant to the agency to which this application is made the right to enter the above-described location to inspect the proposed, in-progress or completed work. I agree to start work <u>only</u> after all necessary permits have been received and to comply with all terms and conditions of the authorization.			
Signature of applicant <i>[Signature]</i> for Steven J. Veenis			Date (mm/dd/yyyy) 04/07/2014

If anyone other than the person named as the Applicant will be in contact with the U.S. Army Corps of Engineers representing the Applicant regarding this project during the permit process, Box 2 MUST be filled out.

Box 2 Authorized Agent/Operator Name Robert M. Gallegos		Agent/Operator Title Environmental Professional	
Agent/Operator Company, Agency, etc. Department of Energy/Los Alamos National Security		E-mail Address rgallegos@lanl.gov	
Mailing Address P.O. Box 1663 Mail Stop K490 Los Alamos, NM 87545			
Work Phone with area code 505.665.0450	Mobile Phone with area code	Home Phone with area code	Fax # with area code
I hereby authorize the above named authorized agent to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application. I understand that I am bound by the actions of my agent and I understand that if a federal or state permit is issued, I, or my agent, must sign the permit.			
Signature of applicant <i>[Signature]</i> for Steven J. Veenis			Date (mm/dd/yyyy) 04/07/2014
I certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief, such information is true, complete, and accurate.			
Signature of authorized agent <i>[Signature]</i>			Date (mm/dd/yyyy) 4/9/14

Box 3 Name of Property Owner(s), if other than Applicant:		
Owner Title	Owner Company, Agency, etc.	
Mailing Address		
Work Phone with area code	Mobile Phone with area code	Home Phone with area code

Box 4 Name of Contractor(s) (if known):		
Contractor Title	Contractor Company, Agency, etc.	
Mailing Address		
Work Phone with area code	Mobile Phone with area code	Home Phone with area code

Box 5 Site Number __ of __. Project location(s), including street address, city, county, state, zip code where proposed activity will occur:	
Lower Pueblo Canyon, Los Alamos County	
Name of Waterbody(ies) (if known, otherwise enter "an unnamed tributary to"):	
Pueblo Canyon 20.6.4.98 NMAC tributary to Los Alamos Canyon and Rio Grande	
Tributary to what named, downstream waterbody:	
Latitude & Longitude (D/M/S, DD, or UTM with Zone): 35° 52' 39.08" N 106° 13' 38.18" W	Section, Township, Range:
County Assessor Parcel Number (Include County name):	USGS Quadrangle map name: Frijolies
Watershed (HUC and watershed name ¹): ¹ http://water.usgs.gov/GIS/regions.html 13020201	Size of permit area or project boundary: 0.798 acres 1400 linear feet
Directions to the project location and other location descriptions, if known: State Road 502 - approximately 1/2 mile NW of intersection of State Road 502 and State Road 4.	
Access limitations or restrictions (if any): U.S. Department of Energy Property	

Box 6 Nature of Activity (Description of the project, include all features):

Stabilize and arrest headcuts and extensive willow planting

Project Purpose (Description of the reason or purpose of the project):

Stabilize headcuts and re-establish interactive floodplain

Reason(s) for Discharge into Waters of the United States (Description of why dredged and/or fill material needs to be placed in Waters of the United States):

Stabilize conditions to promote channel and headcut stability and promote the re-establishment of riparian plants.

Proposed discharge of dredge and/or fill material. Indicate total surface area in **acres** and **linear feet** (where appropriate) of the proposed impacts to Waters of the United States, indicate water body type (tidal wetland, non-tidal wetland, vernal pool, riparian wetland, ephemeral stream/river, intermittent stream/river, perennial stream/river, pond/lake, vegetated shallows, bay/harbor, lagoon, ocean, etc.), and identify the impact(s) as permanent and/or temporary for each requested Nationwide Permit¹:

¹ Enter the intended permit number(s). See Nationwide Permit regulations for permit numbers and qualification information: <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/NationwidePermits.aspx>

Water Body Type	Requested NWP Number:				Requested NWP Number:				Requested NWP Number:			
	Permanent		Temporary		Permanent		Temporary		Permanent		Temporary	
	Area	Length	Area	Length	Area	Length	Area	Length	Area	Length	Area	Length
	See Enclosure No. 3 Dredge and Fill Work Sheet											
Total:												

Total volume (in cubic yards) and type(s) of material proposed to be dredged from or discharged into Waters of the United States:

Material Type	Total Volume Dredged	Total Volume Discharged
Rock Slope Protection (RSP)		
Clean spawning gravel		
River rock		
Soil/Dirt/Silt/Sand/Mud	See Enclosure No. 3 Dredge and Fill Work Sheet	
Concrete		
Structure		
Stumps/Root wads		
Other:		
Total:		

Activity requires a written waiver to exceed specified limits of the Nationwide Permit? Yes No
 If yes, provide Nationwide Permit number and name, limit to be exceeded, and rationale for each requested waiver:

Activity will result in the loss of greater than 1/2-acre of Waters of the United States? Yes No
 If yes, provide an electronic copy (compact disc) or multiple hard copies (7) of the complete PCN for appropriate Federal and State Pre-discharge Notification (See General Condition #31, Pre-construction Notification, Agency Coordination, Section 2 and 4):

Describe direct and indirect effects caused by the activity (see General Condition #31, Pre-construction Notification, District Engineer's Decision, Section 1):

Potential cumulative impacts of proposed activity(if any): Establish interactive floodplain and promote aggregation of sediments

Drawings and figures (see each U.S. Army Corps of Engineers District's Minimum Standards Guidance):

Vicinity map: Attached (or mail copy separately if applying electronically)

To-scale Plan view drawing(s): Attached (or mail copy separately if applying electronically)

To-scale elevation and/or Cross Section drawing(s): Attached (or mail copy separately if applying electronically)

Numbered and dated pre-project color photographs: Attached (or mail copy separately if applying electronically)

Sketch drawing(s) or map(s): Attached (or mail copy separately if applying electronically)

Has a wetlands/waters of the U.S. delineation been completed?

Yes, Attached² (or mail copy separately if applying electronically) No

If a delineation has been completed, has it been verified in writing by the Corps?

Yes, Date of preliminary or approved jurisdictional determination (mm/dd/yyyy): _____ Corps file number: No

²If available, provide ESRI shapefiles (NAD83) for delineated waters

For proposed discharges of dredged material resulting from navigation dredging into inland or near-shore waters of the U.S. (including beach nourishment), please attach³ a proposed Sampling and Analysis Plan (SAP) prepared according to Inland Testing Manual (ITM) guidelines (including Tier I information, if available), or if disposed offshore, a proposed SAP prepared according to the Ocean Disposal Manual.

³Or mail copy separately if applying electronically

Is any portion of the work already complete? YES NO

If yes, describe the work:

Box 7 Authority:

Is Section 10 of the Rivers and Harbors Act applicable?: YES NO

Is Section 404 of the Clean Water Act applicable?: YES NO

Is the project located on U.S. Army Corps of Engineers property or easement?: YES NO

If yes, has Section 408 process been initiated?: YES NO

Would the project affect a U.S. Army Corps of Engineers structure?: YES NO

If yes, has Section 408 process been initiated?: YES NO

Is the project located on other Federal Lands (USFS, BLM, etc.)?: YES NO

Is the project located on Tribal Lands?: YES NO

Box 8 Is the discharge of fill or dredged material for which Section 10/404 authorization is sought part of a larger plan of development?: YES NO

If discharge of fill or dredged material is part of development, name and proposed schedule for that larger development (start-up, duration, and completion dates):

Location of larger development (if discharge of fill or dredged material is part of a plan of development, a map of suitable quality and detail of the entire project site should be included):

Box 9 Measures taken to avoid and minimize impacts to waters of the United States:

Work will be performed during low flows. Activities subject to the provisions of the CWA Stormwater Construction General Permit and SWPPP.

Box 10 Proposed Compensatory Mitigation related to fill/excavation and dredge activities. Indicate in **acres** and **linear feet** (where appropriate) the total quantity of Waters of the United States proposed to be created, restored, enhanced and/or preserved for purposes of providing compensatory mitigation. Indicate water body type (tidal wetland, non-tidal wetland, vernal pool, riparian wetland, ephemeral stream/river, intermittent stream/river, perennial stream/river, pond/lake, vegetated shallows, bay/harbor, lagoon, ocean, etc.) or non-jurisdictional (uplands¹). Indicate mitigation type (permittee-responsible on-site/off-site, mitigation bank, or in-lieu fee program). If the mitigation is purchase of credits from a mitigation bank, indicate the bank to be used, if known:

¹ For uplands, please indicate if designed as an upland buffer.

Site Number	Water Body Type	Created		Restored		Enhanced		Preserved		Mitigation Type
		Area	Length	Area	Length	Area	Length	Area	Length	
		Not Applicable								
Total:										

If no mitigation is proposed, provide detailed explanation of why no mitigation would be necessary:

If permittee-responsible mitigation is proposed, provide justification for not utilizing a Corps-approved mitigation bank or in-lieu fee program:

Has a draft/conceptual mitigation plan been prepared in accordance with the April 10, 2008, Final Mitigation Rule² and District Guidelines^{3,4,5}?

²http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/mitig_info.aspx

³**Sacramento and San Francisco Districts**-http://www.spk.usace.army.mil/organizations/cespk-co/regulatory/pdf/Mitigation_Monitoring_Guidelines.pdf

⁴**Los Angeles District**-http://www.spl.usace.army.mil/regulatory/mmg_2004.pdf

⁵**Albuquerque District**-http://www.spa.usace.army.mil/reg/mitigation/SPA%20Final%20Mitigation%20Guidelines_OLD.pdf

Yes, Attached (or mail copy separately if applying electronically) No

If no, a mitigation plan must be prepared and submitted, if applicable.

Mitigation site(s) Latitude & Longitude (D/M/S, DD, or UTM with Zone): USGS Quadrangle map name(s):

Assessor Parcel Number(s): Section(s), Township(s), Range(s):

Other location descriptions, if known:

Directions to the mitigation location(s):

Box 11 Threatened or Endangered Species and Essential Fish Habitat

Please list any federally-listed (or proposed) threatened or endangered species or critical habitat (or proposed critical habitat) within the project area (include scientific names (e.g., Genus species), if known):

- a. None See Enclosure #4
- b.
- c.
- d.
- e.
- f.

Have surveys, using U.S. Fish and Wildlife Service/NOAA Fisheries protocols, been conducted?*

Yes, Report attached (or mail copy separately if applying electronically) No

Has a biological assessment or evaluation been completed for the proposed project?

Yes, Report attached (or mail copy separately if applying electronically) Not attached

Has Section 7 consultation been initiated by another federal agency? *

Yes, Initiation letter attached (or mail copy separately if applying electronically) No

Has Section 10 consultation been initiated for the proposed project?

Yes, Initiation letter attached (or mail copy separately if applying electronically) No

Has the USFWS/NOAA Fisheries issued a Biological Opinion?

Yes, Attached (or mail copy separately if applying electronically) No

If yes, list date Opinion was issued (m/d/yyyy):

Is the project located within Essential Fish Habitat¹ (EFH)? Yes No

¹http://swr.nmfs.noaa.gov/hcd/HCD_webContent/EFH/index_EFH.htm

*Critical habitat at LANL is managed through our Habitat Management Plan that was approved by the USFWS through section 7 consultations.

Box 12 Historic Properties and Cultural Resources:

Are any cultural resources of any type known to exist on-site? Yes No

Please list any known historic properties listed, or eligible for listing, on the National Register of Historic Places:

- a. None - site avoidance requirement in place
- c. See Enclosure #4
- e.
- d.
- f.

Has a cultural resource records search been conducted?

Yes, Report attached (or mail copy separately if applying electronically) No

Has a cultural resource pedestrian survey been conducted for the site?

Yes, Report attached (or mail copy separately if applying electronically) No

Has another federal agency been designated the lead federal agency for Section 106 consultation?

Yes, Designation letter/email attached (or mail copy separately if applying electronically) No

Has Section 106 consultation been initiated by another federal agency?

Yes, Initiation letter attached (or mail copy separately if applying electronically) No

Has a Section 106 MOA or PA been signed by another federal agency and the SHPO?

Yes, Attached (or mail copy separately if applying electronically) No
Cultural Resources Management Plan dated 6/15/2006 available upon request.

If yes, list date MOA or PA was signed (m/d/yyyy):

Box 13 Section 401 Water Quality Certification (New Mexico):

I have read and will comply with applicable conditions of state or tribal water quality certifications. (<ftp://ftp.nmenv.state.nm.us/www/swqb/WPS/401-404/NWPCertificationNotice04-13-2012.pdf>)

Yes (If yes, list which conditions apply to your project): 1,2,3,4,5,6,9,14,15 and 16

I am applying for Tribal Certification Yes

* In New Mexico, notification is required to the NM Environment Department prior to conducting activities in intermittent and perennial waters and special aquatic sites.

Box 13 Section 401 Water Quality Certification (Texas):

I have included the appropriate completed TCEQ Tier I or Tier II application as an attachment of the PCN.

Yes (If yes, list the conditions that apply to your project that determine Tier I or II):

No (If no, the Corps cannot complete processing the application for permit without the WQC application)

Please visit http://www.tceq.texas.gov/permitting/401certification/401certification_definition.html

Box 14 List of other certifications or approvals/denials received from other federal, state, or local agencies for work described in this application:

Agency	Type of Approval ⁴	Identification Number	Date Applied	Date Approved	Date Denied
NMED	Section 401 Certificaiton	2012 Nationwide Permit		April 13, 2012	

⁴ Would include but is not restricted to zoning, building, and flood plain permits

Box 15 Nationwide Permit Regional Conditions:

I have read the Nationwide Permit **Regional Conditions** for the state in which work is being completed.

Yes (If yes, list which conditions apply to your project): a, e & g

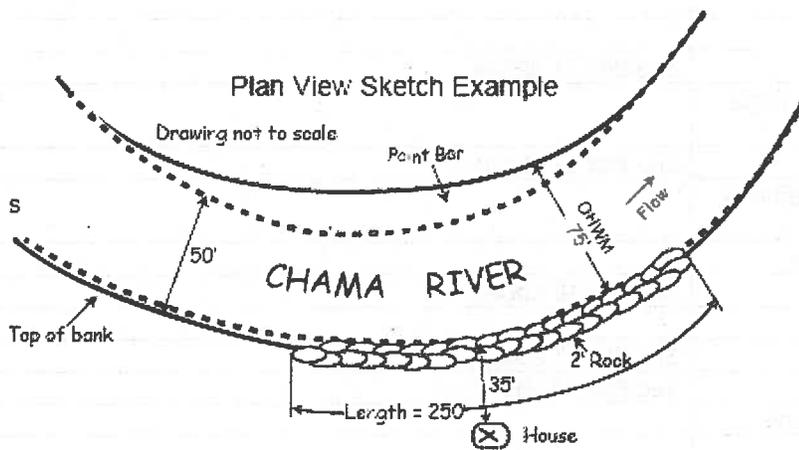
No (If no, please visit (<http://www.spa.usace.army.mil/Missions/Regul>;

Nationwide Permit General Conditions (GC) checklist:

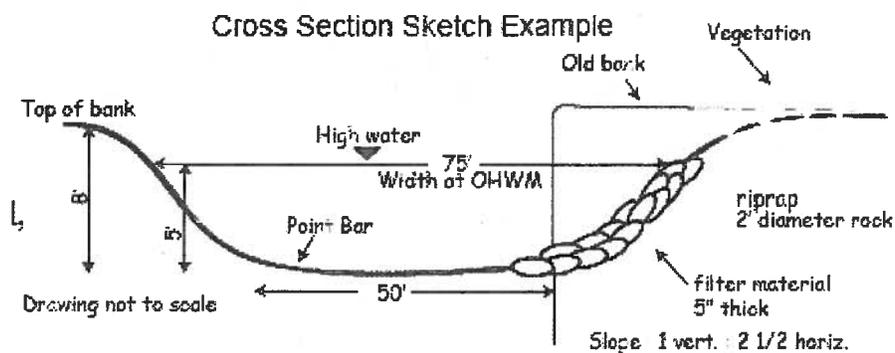
(<http://www.gpo.gov/fdsys/pkg/FR-2012-02-21/pdf/2012-3687.pdf>)

Check	General Condition	Rationale for compliance with General Condition
<input type="checkbox"/>	1. Navigation	
<input checked="" type="checkbox"/>	2. Aquatic Life Movements	If diversion is necessary water aquatic life movements will be maintained.
<input type="checkbox"/>	3. Spawning Areas	
<input checked="" type="checkbox"/>	4. Migratory Bird Breeding Areas	Trees & shrubs will not be removed during peak nesting season. If removal is necessary a survey will be conducted.
<input type="checkbox"/>	5. Shellfish Beds	
<input checked="" type="checkbox"/>	6. Suitable Material	Use of materials - reed canary grass & soil from abandoned terrace; temporary matting
<input type="checkbox"/>	7. Water Supply Intakes	
<input type="checkbox"/>	8. Adverse Effects from Impoundments	
<input type="checkbox"/>	9. Management of Water Flows	
<input checked="" type="checkbox"/>	10. Fills Within 100-Year Floodplains	Work within 100 y floodplain. Comply with FEMA-Approved floodplain best management requirements
<input type="checkbox"/>	11. Equipment	
<input checked="" type="checkbox"/>	12. Soil Erosion and Sediment Controls	
<input type="checkbox"/>	13. Removal of Temporary Fills	
<input type="checkbox"/>	14. Proper Maintenance	
<input type="checkbox"/>	15. Single and Complete Project	
<input type="checkbox"/>	16. Wild and Scenic Rivers	
<input type="checkbox"/>	17. Tribal Rights	
<input checked="" type="checkbox"/>	18. Endangered Species	See Box 11 above.
<input type="checkbox"/>	19. Migratory Bird and Bald and Golden Eagle Permits	
<input checked="" type="checkbox"/>	20. Historic Properties	See Box 12 above.
<input type="checkbox"/>	21. Discovery of Previously Unknown Remains and Artifacts	
<input type="checkbox"/>	22. Designated Critical Resource Waters	
<input type="checkbox"/>	23. Mitigation	See Box 10 above.
<input type="checkbox"/>	24. Safety of Impoundment Structures	
<input checked="" type="checkbox"/>	25. Water Quality	See Box 13 above.
<input type="checkbox"/>	26. Coastal Zone Management	See Box 14 above.
<input type="checkbox"/>	27. Regional and Case-by-Case Conditions	
<input type="checkbox"/>	28. Use of Multiple Nationwide Permits	
<input type="checkbox"/>	29. Transfer of Nationwide Permit Verifications	
<input checked="" type="checkbox"/>	30. Compliance Certification	Required upon project completion
<input checked="" type="checkbox"/>	31. Pre-Construction Notification	Required per requirement of NWP

Map and Figures Examples:



Plan View Sketch “Bird’s-eye view”; include all features, distances, length and width dimensions of features and waterbody/wetland, Ordinary High Water Mark (OHWM), wetland boundary, North arrow



Cross Section Sketch “Cut away view”; include heights, widths of structures, channel, wetland, bank slopes, OHWM, wetland boundary, etc.

ENCLOSURE 2

Vicinity Map – Indicating Restoration Area Locations and
Project Features

ENV-DO-14-0083

LAUR-14-21843

Date: APR 14 2014

ENCLOSURE 3

Dredge and Fill Quantities Worksheet

ENV-DO-14-0083

LAUR-14-21843

Date:

APR 14 2014

ENCLOSURE 3
Dredge and Fill Quantities Worksheet
Action No. SPA-xxxx-ABQ

Discharges to the Pueblo Canyon Watercourse													
Site #	Type	Location	Wetland?	Wetlands Width** (ft)	Channel OHWM (ft)	Fill Length (ft)	Fill Width (ft)	Fill depth (ft)	Fill Volume (cu.ft.)	Area (sq. ft.)	Cubic Yards (CY)	Acres	Fill Materials
Restoration Area 1	Fill	Interim head cut stabilization	N	0	25	220	7.5	3	2484	1,650	92	0.038	Soil and Jute and Matting
Restoration Area 1	Fill	Headcut fill area	N	0	5	79	25	5	9909	1,982	367	0.046	Soil
Restoration Area 1	Fill	Bank push down & protection	N	0	25	830	5	2	8300	4,150	307	0.095	Soil and Jute Matting
Restoration Area 1	Fill	Sod mat transfer	N	0	25	*Irregular area		1.2	32040	26,700	1187	0.613	Reed canary grass sod
Restoration Area 2	Fill	Coir logs - along select banks	N	0	25	275	1 dia.	NA	216	275	8	0.006	Coir logs
Total Discharges to Pueblo Canyon Watercourse (all materials)									52,949	34,757	1961	0.798	all

ENCLOSURE 4

**Memorandum - LANS Determinations for Cultural
and Biological Resources and National
Environmental Policy Act Compliance**

ENV-DO-14-0083

LAUR-14-21843

Date: APR 14 2014



memorandum

*Environmental Protection Division
Environmental Stewardship Services (ENV-ES)*

*To/MS: Anthony R. Grieggs, ENV-CP, (E-File)
From/MS: Jennifer E. Payne, ENV-ES, (E-File) 
Phone/Fax: 7-7912
Symbol: ENV-DO-14-0078
Date: March 26, 2014*

Subject: LANS Determinations for Cultural and Biological Resources and National Environmental Policy Act Compliance for Project: Pueblo Canyon Stabilization, Los Alamos National Laboratory

Pursuant to requirements in the 2012 Nationwide Permits, the Department of Energy/Los Alamos National Security, LLC (DOE/LANS) has reviewed the [aforementioned] project to determine compliance with the National Historic Preservation Act, the Endangered Species Act, and the National Environmental Policy Act (NEPA).

All soil disturbing activities, including those which may be subject to a Department of Army Permit under Section 404 of the Clean Water Act, trigger a review by LANS subject matter experts. LANS Policy 400, Environmental Protection, requires any new or modified project be reviewed for potential impacts to the environment. The results of the review follow:

The Laboratory's Biological Resources subject matter experts, in accordance with Policy 400, Environmental Protection, completed a Biological Resources Review of the proposed project. They determined no action is required regarding federally-listed threatened and endangered species.

The Laboratory's Cultural Resources subject matter experts, in accordance with Policy 400, Environmental Protection, also completed a Cultural Resources Review of the proposed project. They determined that if the requirements are followed (e.g., site avoidance) the project will not impact any cultural resources.

With respect to NEPA, in accordance with Policy 400, Environmental Protection, the project was reviewed by LANS subject matter experts and this kind of work was analyzed in the 2008 SWEIS and is therefore bounded by the analysis in the 2008 SWEIS, Non-Key Facilities Document, Section 1.1 Routine Maintenance Activities.

Please call me at (505) 667-7912 or email at (jpayne@lanl.gov) if you have any questions.

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