TA03

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June 30, 2006

Mr. Gene Turner, DOE/AIP/POC
Department of Energy
Los Alamos Site Office, MS A316
Los Alamos, NM 87545

SUBJECT: Report Submittal - Subject: NMED-DOE OB Site Evaluation Report For Storm Water And Erosion Controls at the TA-03 Combustible Gas Turbine Generator Site, Los Alamos National Laboratory on June 7, 2006.

Mr. Gene Turner:

NMED DOE OB is submitting the referenced report documenting our participation in a site evaluation of PGIU project for storm water and erosion controls on May 22, 2006. This site evaluation was conducted pursuant to the NPDES General Permit for Large and Small Construction Activities (Clean Water Act, 33 U.S.C. §1251 et.seq.).

Thank you for your continued support of our environmental monitoring and site evaluations at LANL. Please notify Erik Galloway (428-2547, email- erik.galloway@state.nm.us) at your earliest convenience, if you or your staff have any questions concerning this report.

Sincerely,

Stephen Yanicak

Steve Yanicak, Staff Manager/POC

SY:eg

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Subject: NMED-DOE-OB Site Evaluation Report For Storm Water And Erosion Controls at the TA-03 Combustion Gas Turbine Generator Project, Los Alamos National Laboratory on June 7, 2006.

The site evaluation was made pursuant to the NPDES General Permit for Large and Small Construction Activities (Clean Water Act, 33 U.S.C. §1251 et. seq.).

Participants:

Erik Galloway (NMED, DOEOB)
Robin Reynolds (LANS, ENVP-RCRA)
Jake Meadows (LANS, ENVP-RCRA)
Jennifer Foot (Merrick,ENVP-RCRA)
Jerome Gonzales, (LANS, MSS-UI, Project Leader, Gas Turbine Project)
Dana Parrett, (KSL, SSS-EC-C04, KSL Project Lead)

DOE OB staff met LANS and their contractors at the TA-3 Combustion Gas Turbine Generator Project Site at approximately 1:30 pm on June 7, 2006. The day was warm, dry and clear.

The TA-3 Combustion Gas Turbine Generator construction site is located on the northern side of TA-3 and abuts Sandia Canyon. The Combustion Gas Turbine Generator site is covered under an Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges from Construction Activity Permit No.NMR150000 and its activities at Los Alamos National Laboratory.

On arrival at the TA-3 Combustion Gas Turbine Generator Project Site, DOE OB and LANS, ENVP-RCRA staff met with Jermone Gonzales of LANS and Dana Parrett of KSL and were escorted onsite.

There were no construction activities at the site at the time of the site evaluation but personal protection equipment was required including a hard hat, safety goggles, safety vest, and safety boots.

Please Note: The effective use of BMPs at this project for both drainage and permanent storm water control should be applauded. Site management used a mix of low cost structural BMPs along with tempory storm water BMPs to add to site's overall stability and functionality during project construction. Through good planning, both physical and hydrological stability as well as having good visual aesthetics were achieved.

entrance that was raised and surrounded by silt dikes. This washout area showed no signs of blowout.

A several layers of straw wattles were located around northern and eastern sides of the construction area down gradient of the site except as noted below. These straw wattles looked to be very effective for containment of any sheet flow of storm water from the construction activities. Additional straw wattles were strategically placed along with erosion control blanket on the tailing slope along the Canyon rim for sediment and erosion containment. Vegetative growth could be seen coming through many of these blanketed area. In addition to the straw wattles a curve was built along the eastern abutment of the project to Sandia Canyon to provide addition channeling and protection of site runoff into a rock rip-rap armored sediment detention basin area. Much of the site was covered with asphalt and looked to be well stabilized. A suggestion was made by DOE-OB staff to place an additional wattle along the eastern fence line from the curve to the rip-rap lined detention basin for additional storm water run-off diversion and canyon run-off protection.

Retaining Wall:

Between the storage tank and the newly build generator a diversion was built using cement block. This permanent structural BMP provided both structural integrity to the area storage tank area and allowed for a "stair like" divider to be used to break-up the slope that the tank and generator station were built upon. In addition, this retention wall directed the southern part of the areas storm water flows to be directed into the rip-rap armored sediment detention basin.

Rip-Rap Armored Sediment Detention Basin and Runway and Outlet:

This rip-rap sediment detention basin was constructed with various sizes of rounded stone placed into a rounded low laying area. This stone armoring provided both erosion and sediment control from water coming from both the northern and southern parts of the project. While this basins holding capacity was not voluminous, it did provide for site sediment containment through pooling and partial retention. A rip-lined lined runway was used along the northern side of the retention wall to provide for directional flow and stability into the detention basin and a rip-rap lined channel was used as an outlet. While this outlet allowed storm water overflows to run into Sandia Canyon, no areas at this site that may come into contact with those storm waters are listed as potential release sites (PRS). In addition, a series of BMPs including straw wattles and check dams were in-place at the end of the outlet area for protection from erosion and gully development.

Mulch and Seeding:

DOE-OB staff was told by site management that all areas were scheduled to be mulched and seeded in order to obtain final stabilization.

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DOE OB staff was told by site management that all areas were scheduled to be mulched and seeded in order to obtain final stabilization.

If there are any questions concerning these recommendations, please call either Erik Galloway at 428-2547 or if you would like to talk to someone at the site call Steve Yanicak at 672-0448. Mr. Galloway will notify appropriate LANS staff to schedule a follow-up site-evaluation.

Sincerely,

Stephen Yanicak

Mr. Stephen Yanicak
Program Manager/POC
DOE Oversight Bureau
New Mexico Environment Department

xc w/enc: Victoria A. George, LANS, ENVP-DO MS J978
Steve Rae, LANS, ENVP-RCRA, MS K490
Tina Sandoval, LANS, ENVP-RCRA, MS K490
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Thomas Skibitski, NMED, Bureau Chief, DOE OB
Barbara Hoditschek, NMED, DOE OB
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DOE-OB Spill File

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Los Alamos
NATIONAL LABORATORY
EST. 1943

Environment, Safety, Health & Quality
Water Quality & RCRA (ENVP-RCRA)
P.O. Box 1663, Mail Stop K490
Los Alamos, New Mexico 87545
(505) 667-4689/FAX: (505) 665-9344

Date: June 22, 2006
Refer To: ENVP-RCRA: 06-020

RECEIVED
JUN 2006
NMED Hazardous
Waste Bureau

Mr. Erik Galloway
New Mexico Environment Department
DOE Oversight Bureau
2905 Rodeo Park Drive East, Bldg. 1
Santa Fe, NM 87505

SUBJECT: PHOTOGRAPHS OF STORMWATER CONTROLS, AND BMPS, ASSOCIATED WITH THE NMED-DOE OVERSIGHT BUREAU TA-3 COMBUSTION GAS TURBINE GENERATOR PROJECT

Dear Mr. Galloway:

Enclosed are photographs of the stormwater controls, BMPs, and issues associated with the NMED-DOE Oversight Bureau (OB) stormwater inspection of LANL construction sites on June 6 and 7, 2006.

The enclosure contains photographs of stormwater controls on the TA-3 Combustion Gas Turbine Generator Project from the NMED-DOE OB stormwater inspection conducted on June 7, 2006. Descriptions of the stormwater control features are included in the captions. All photographs and captions contained in the enclosure are unclassified and have been assigned LA-UR-06-4376.

If you would like additional information, please contact me at (505) 667-4689.

Sincerely,

For Robin Reynolds

Robin Reynolds
NPDES Storm Water Construction General Permit Lead

RR:JM/lm

Enclosure: a/s

Cy: Gene Turner, NNSA/LASO, w/enc., MS A316
Tori George, ENVP-DO, w/enc., MS J978
Dave McInroy, ENV-CAP-DO, w/enc., MS M992
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Jake Meadows, ENVP-RCRA, w/enc., MS K490
Jerome F. Gonzales, MSS-UI, w/enc., MS K718
Dana Parrett, SSS-EC-CO4, w/enc., MS A199
ENVP-RCRA, File, w/enc., MS K490
IRM-RMMSO, w/enc., MS A150

TA-3 Combustion Gas Turbine Generator Project Stormwater Controls

06/07/06 NMED-DOE Oversight Bureau Inspection

North facing view of retaining wall on TA-3 Combustion Gas Turbine Generator Project.

North facing view of rip-rap lined retention basin adjacent to retaining wall and slope on TA-3 Combustion Gas Turbine Generator Project.

North facing view of retention basin, lined stormwater outlet, slope, and erosion control blanket on TA-3 Combustion Gas Turbine Generator project. Slope is scheduled to be seeded and mulched to facilitate final stabilization.

West facing view of lined retention basin and retaining wall at TA-3 Combustion Gas Turbine Generator Project.

South facing view of vacated cooling tower adjacent to TA-3 Combustion Gas Turbine Generator Project.

East facing view of vacated cooling tower adjacent to TA-3 Combustion Gas Turbine Generator project.