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Date: **JUN 07 2018**

Symbol: EPC-DO: 18-215

LAUR: 18-24482

Locates Action No.: NA

Ms. Michelle Hunter, Chief  
Ground Water Quality Bureau  
New Mexico Environment Department  
Harold Runnels Building, Room N2261  
1190 St. Francis Drive  
P.O. Box 26110  
Santa Fe, NM 87502

Dear Ms. Hunter:

**SUBJECT: Reactivation of Inactive Septic Tank-Disposal System TA-36-0274, DP-1589**

In July 2016, the New Mexico Environment Department (NMED) issued Discharge Permit DP-1589 to the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) for discharges of domestic wastewater from four active and four inactive septic tank-disposal systems. Pursuant to DP-1589, if at any time DOE/LANS intend to re-activate an inactive system then the following requirements in Condition Nos. 8 and 6 must be met:

**Condition No. 8.** *At least 30 days prior to re-activating an inactive septic tank-disposal system, the Permittees shall notify NMED in writing of the system to be re-activated. The written notification shall contain the results of the water tightness inspection and testing required in Condition #6.*

**Condition No. 6.** *Each inspection shall be performed according to the following procedure.*

- a) *The contents of the unit shall be pumped and disposed of in accordance with all applicable regulations*
- b) *The interior of the unit shall be inspected to determine the construction material, interior dimensions, and mechanical integrity. Inspection findings shall be recorded.*
- c) *The condition of the interior of the unit shall be photographically documented while the unit is empty.*



DOE/LANS intend to re-activate septic tank-disposal system TA-36-0274. In accordance with the above-referenced requirements, DOE/LANS must perform both a water-tightness test and visual inspection of the tank. This letter and Enclosures 1 and 2 provide the information required under Discharge Permit DP-1589 Condition Nos. 8 and 6.

### **Septic Tank-Disposal System TA-36-0274**

Water tightness testing and videographic documentation of this tank were conducted on May 4, 2018. Prior to performing the activities listed below, the contents of the tank was pumped and hauled by truck to the Los Alamos National Laboratory (LANL) TA-46 Sanitary Wastewater Systems (SWWS) Plant for treatment.

#### **Water Tightness Testing**

1. Test Date: May 4, 2018
2. Test Procedure: Hydrostatic testing per Discharge Permit DP-1589, Condition No. 6
3. Test Conducted By: Arthur Apodaca (LANS). Results approved by LANL System Engineer Joshua Begay
4. Documentation: Enclosure 1 contains a copy of the LANL Conduct of Engineering Form for the successful hydrostatic testing of septic tank TA-36-0274.

#### **Tank Inspection and Videographic Documentation**

1. Inspection Date: May 4, 2018
2. Inspection Conducted By: Arthur Apodaca (LANS, Fitter Foreman)
3. Inspection Method: Video camera and monitor
4. Tank Size: 1000 gal
5. Tank Construction: Polyethylene
6. Tank Design: Two manholes, two compartments
7. Documentation: See video of tank interior on CD (Enclosure 2)
8. Inspection Findings:

##### Compartment #1

- No evidence of cracks or structural failure
- No evidence of roots
- Depth of accumulated sludge in the bottom of compartment #1: <1 inch

##### Compartment #2

- No evidence of cracks or structural failure
- No evidence of roots
- Depth of accumulated sludge in the bottom of compartment #2: <1 inch

Ms. Michelle Hunter  
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Please contact Karen E. Armijo by telephone at (505) 665-7314 or by email at [karen.armijo@nnsa.doe.gov](mailto:karen.armijo@nnsa.doe.gov), or Robert S. Beers by telephone at (505) 667-7969 or by email at [bbeers@lanl.gov](mailto:bbeers@lanl.gov) if you have questions regarding this notification.

Sincerely,



Taunia Van Valkenburg  
Group Leader

Sincerely,



Karen E. Armijo  
Permitting and Compliance Program Manager

TVV:KEA:MTS:RSB:kr

Enclosures:

- 1) LANL Conduct of Engineering Reports, Hydrostatic testing of septic tank TA-36-0274
- 2) Video (CD) of the interior of septic tank TA-36-0274

Cy: Shelly Lemon, NMED/SWQB, Santa Fe, NM, (E-File)  
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# **ENCLOSURE 1**

**LANL Conduct of Engineering Reports  
Hydrostatic testing of septic tank TA-36-0274**

**EPC-DO-18-215**

**LA-UR-18-24482**

**Date: JUN 07 2018**

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**Conduct of Engineering  
Post Modification/ Post Maintenance Test**

<b>1.0 TEST AND SYSTEM INFORMATION</b>			
1.1 Post Modification Test	1.2 Post Maintenance Test X	1.3 Test Name : PMT-TA-36-0274	
1.4 Complete the following for Post Modification Test			
DCF No.: DP-1589	DCF Title: Activation of Septic Tank TA-36-0274		
1.5 Complete the following for Post Maintenance Test			
Work Order No.: N/A	Work Order Title: TA-36-0274		
1.6 System ID: SS	1.7 System Title: Sanitary Sewer		
1.8 Does the PMT test new or modified software? Yes <input type="checkbox"/> No X			
if yes, then plan, perform, and document software testing in accordance with the ESM, Ch. 21, Software.			
1.9 System Nuclear Functional Classification			
SC <input type="checkbox"/>	SS <input type="checkbox"/>	IDID <input type="checkbox"/>	Non-Safety X
1.10 System Management Level:			
ML-1 <input type="checkbox"/>	ML-2 <input type="checkbox"/>	ML-3 <input type="checkbox"/>	ML-4 X
<b>2.0 PREREQUISITES (INSTRUMENTATION, TEST EQUIPMENT, AND TEST PERSONNEL QUALIFICATIONS)</b>			
2.1 Instrument Number	2.2 Instrument Description		2.3 Calibration Date
N/A	N/A		N/A
			2.4 Calibration Expiration Date
			N/A



**Conduct of Engineering  
Post Modification/ Post Maintenance Test**

<b>2.5 Equipment Number</b>	<b>2.6 Equipment Description</b>	<b>2.7 Equipment Data</b>
TA36-274	Septic Tank	1000 gal polyethylene septic tank
<b>2.8 Tester Name and Z#</b>		<b>2.9 Personnel Qualification/Certification</b>
Arthur C. Apodaca 166407		Fitter/Foremen

**3.0 TEST REQUIREMENTS, ACCEPTANCE CRITERIA, AND TEST INSTRUCTIONS**

**3.1 Required Environmental Conditions**

tank must maintain level for 60 minutes

**3.2 Test Objectives**

To make sure the tanks don't leak.

**3.3 Test Configuration**

Drain and refill to appropriate level. Take measurement of level. Level must maintain constant for 60 minute to pass.

Test Step	3.4 Test Requirements	3.5 Acceptance Criteria	3.6 Test Instructions
1	Drain contents	Empty	Drain with honey wagon
2	Take photos/videos of tank interior	None	Take photos/videos



**Conduct of Engineering Post Modification/ Post Maintenance Test**

3	Fill with potable water	Adequate water to fill	Fill with water
4	Take levels		Measure level of water
5	Let stand		Wait 60 min
6	Measure level	Maintained level for 60 min	Measure level of water

3.7 Design Engineer or System Engineer: (Name, Z Number, Organization, Signature and Date)  
 Joshua Begay, 304395, ES-UI *JB* 5/16/2018

3.8 Design Verifier: (Name, Z Number, Organization, Signature and Date)  
*Joe A/A* 5/16/18

**4.0 TEST RESULTS (Notify System Engineer 5 days before the start of testing.)**

Test Step	4.1 Brief Test Description	Pass	Fall	4.2 Comments	Tester Initials	Test Date
1	Drained	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Honey wagon contents	ACA	5/4/18
2	Video	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Push camera	ACA	5/4/18
3	Fill	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Filled with water via Honey wagon	ACA	5/4/18
4	Measured	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Measured	ACA	5/4/18
5	Wait	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Waited 60 min	ACA	5/4/18
6	Measured	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Measured	ACA	5/4/18



**Conduct of Engineering  
Post Modification/ Post Maintenance Test**

4.3 Tester: (Name, Z Number, Organization, Signature and Date)  
 Arthur Apodaca 166407 LOG-CS *Arthur Apodaca* 5/16/18

**5.0 TEST RESULTS ACCEPTANCE**

5.1 System Engineer: (Name, Z Number, Organization, Signature and Date)  
 Joshua Begay, 304395, ES-JI, *JB* 5/16/2018

**6.0 REVISIONS**

Rev	Date	Description	DE or SE (Z Number and Initials)	Verifier (Z Number and Initials)



## **ENCLOSURE 2**

Video (CD) of the interior of  
septic tank TA-36-0274

EPC-DO-18-215

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***TO VIEW THE VIDEO  
THAT ACCOMPANIES  
THIS DOCUMENT,  
PLEASE CALL THE  
HAZARDOUS WASTE  
BUREAU AT 505-476-6000  
TO MAKE AN  
APPOINTMENT***