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NMED
Hazardous Waste Bureau

Los Alamos NATIONAL LABORATORY EST 1943

Environmental Protection Division
Environmental Compliance Programs (ENV-CP)
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National Nuclear Security Administration
Los Alamos Field Office, A316
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(505) 667-5794/Fax (505) 667-5948

Date: JUN 18 2015
Symbol: ENV-DO-15-0150
LA-UR: 15-24050
Locates Action No.: N/A

Mr. John Kieling, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Dear Mr. Kieling:

Subject: **Response to Solid Waste Management Unit Assessment Report Requirement for Septic Tank/Leachfield Systems at Technical Area 33**

At the recommendation of the New Mexico Environment Department, Ground Water Quality Bureau (NMED-GWQB), on September 24, 2014 the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) collected characterization samples from three (3) septic tanks at the Los Alamos National Laboratory (LANL): Technical Area (TA)-33-0031 (Septic Tank), TA-33-0375 (Septic Tank), and TA-39-0104 (Septic Tank). Organic constituents were detected at each sampling location at concentrations less than Tap Water Soil Screening Levels (SSLs), with the exception of phenol at TA-39-0104 **(See Enclosure 1)**. These analytical results prompted a request from the NMED's Hazardous Waste Bureau (NMED-HWB) for LANL to submit a Solid Waste Management Unit (SWMU) Assessment Report for TA-33-0161 (i.e., TA-39-0104) and TA-33-0375 **(See Enclosure 2)**.

DOE/LANS agrees with NMED's decision that a SWMU Assessment Report is not required for TA-33-0031, since it is currently being investigated under the *Investigation Work Plan for Chaquehui Canyon Aggregate Area,* Revision 1 [SWMU 33-004(a)] (http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-10-07226). Similarly, DOE/LANS believes a SWMU Assessment Report is not required for Septic Tank 39-0104, as it is currently being investigated under the North Ancho Canyon Aggregate Area as SWMU 39-006(a). Preliminary investigation results demonstrate that current activities at SWMU 39-006(a) are not contributing to off-site contaminant migration, and further investigation of the active components of SWMU 39-006(a) has been delayed until operations at the site cease [(*Investigation Report for North Ancho Canyon Aggregate Area*, Revision 1, approved by NMED-HWB on January 28,

2010 (HWB-LANL-09-052) (http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-10-00125)].

The NMED-HWB also directed DOE/LANS to reassess SWMU 33-004(e). SWMU 33-004(e) was a former septic system that consisted of a septic tank (TA-33-0161), a seepage pit, and associated drain lines. The septic system received sanitary waste from former building TA-33-0169, a transportable building that was used as office space from 1983-1988. In 1989 building TA-33-0169 and Septic Tank TA-33-0161 were removed and the seepage pit was covered. In 1992, SWMU 33-004(e) was recommended for no further action, because it was never used for the management of RCRA solid or hazardous waste [*1992 RFI Work Plan for Operable Unit 1122,* LA-UR-92-925 (http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-92-0925)]. No further action status was granted by NMED in 1998.

DOE/LANS believes SWMU 33-004(e) does not require further investigation or reassessment since Septic Tank TA-33-0161 was never used for the management of RCRA solid or hazardous waste and was removed in 1989. In addition, there were no analytical results presented to the NMED-GWQB for this particular unit as it was not among the three (3) Septic Tanks sampled during characterization sampling in 2014.

A Ground Water Discharge Permit application (DP-1589) for all active septic systems at LANL was submitted to the NMED-GWQB in June 2010 (Reference: LA-UR-10-03157). In January 2012, the Discharge Permit application was amended to include Septic Tank TA-33-0375 (Reference: LA-UR-12-10056). Until DP-1589 is approved, NMED GWQB has granted DOE/LANS temporary permission to discharge domestic wastewater to Septic Tank TA-33-0375 (**See Enclosure 3**).

Consistent with the requirements in Section V.C of the March 2005 (Revised in 2012) Order on Consent (the Consent Order), the following information is being provided for Septic Tank TA-33-0375:

1. A topographic map of Septic Tank TA-33-0375 has been included (**See Enclosure 4**).
2. Septic Tank TA-33-0375 receives and discharges sanitary wastewater, regulated under the New Mexico Water Quality Act.
3. Septic Tank TA-33-0375 is a concrete unit with a storage capacity of 5,000 gallons. The Septic Tank design drawing (**See Enclosure 5**).
4. Septic Tank TA-33-0375 began operation in December 2010 and is currently active.
5. The only waste stream that is being managed in the unit is sanitary wastewater (i.e., domestic sewage), as certified by the Facility Manager (**See Enclosure 6**). There is no conclusive evidence that listed constituents (K, F, P, or U) have been discharged into the system as a direct result of laboratory operations or past spills.
6. Wastewater data from characterization sampling has been provided (**See Enclosure 1**).

The DOE/LANS believes a SWMU Assessment Report is not required for Septic Tank TA-33-0375 for the following reasons: 1) It is an active unit that is being managed under the regulations implementing the New Mexico Water Quality Act; 2) There is no conclusive evidence that the Septic Tank/Leachfield system receives hazardous waste; and, 3) The three (3) organic constituents detected within the septic tank contents that were below tap water standards are commonly found in samples as a result of cross

contamination during sample analysis. However, on June 3, 2015 DOE/LANS re-sampled the wastewater in the tank and are awaiting confirmation sampling results.

If additional information is needed, please contact Jocelyn Y. Buckley at 665-5209 (jbuckley@lanl.gov).

Sincerely,

Alison M. Dorries
Division Leader
Environmental Protection Division
Los Alamos National Security LLC

Sincerely,

Gene E. Turner
Environmental Permitting Manager
National Security Missions
Los Alamos Field Office
U.S. Department of Energy

AMD:GET:JYB/lm

Enclosures:

1. December 18, 2014, Letter from DOE/LANS to NMED Groundwater Quality Bureau showing analytical results from sampling three (3) Septic Tank/Leachfield Systems at TA-33
2. April 21, 2015, Letter from NMED Hazardous Waste Bureau to DOE/LANS requiring a SWMU Assessment Report for Septic Tank/Leachfield Systems at TA-33
3. July 1, 2010, Letter from NMED-GWQB to DOE/LANS granting Temporary Permission to Discharge to Septic Tank TA-33-0375
4. Topographic Map of Septic Tank TA-33-0375
5. Design Drawing of Septic Tank TA-33-0375
6. Certification from the TA-33 Building Manager that TA-33-0375 only receives domestic wastewater

Cy: Katie Roberts, NMED/RPD, Santa Fe, NM, (E-File)
Dave Cobrain, NMED/HWB, Santa Fe, NM, (E-File)
Steve Huddleson, NMED/GWQB, Santa Fe, NM (E-File)
David Rhodes, EM-SG, (E-File)
Cheryl Rodriguez, EM-SG, (E-File)
Gene E. Turner, LASO-NS-LP, (E-File)
Kirsten Laskey, LASO-SUP, (E-File)
Michael A. Lansing, PADOPS, (E-File)
Amy E. De Palma, PADOPS, (E-File)
Randy Erickson, ADEP, (E-File)
Dave McInroy, ER, (E-File)
Kent Rich, ER, (E-File)
Joe English, ER, (E-File)
Michael T. Brandt, ADESH, (E-File)
Raeanna Sharp-Geiger, ADESH, (E-File)
Alison M. Dorries, ENV-DO, (E-File)

Cy (continued):
Andrew W. Erickson, UI-DO, (E-File)
Randy E. Vigil, UI-OPS, (E-File)
Marc R. Gallegos, DSESH-STO, (E-File)
Michael Saladen, ENV-CP, (E-File)
Bob Beers, ENV-CP, (E-File)
Jocelyn Buckley, ENV-CP, (E-File)
Mark Haagenstad, ENV-CP, (E-File)
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ENCLOSURE 1

December 18, 2014, Letter from DOE/LANS to NMED Ground Water Quality Bureau showing analytical results from sampling three (3) Septic Tank/Leachfield Systems at TA-33

ENV-DO-15-0150

LA-UR-15-24050

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Date: DEC 18 2014
Symbol: ENV-DO-14-0371
LAUR: 14-29132
Locates Action No.: NA

Mr. Jerry Schoeppner, Chief
Ground Water Quality Bureau
New Mexico Environment Department
Harold Runnels Building, Room N2250
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, NM 87502

Dear Mr. Schoeppner:

Subject: Analytical Results from Sampling Three Septic Tank/Leachfield Systems at Los Alamos National Laboratory, DP-1589

At the recommendation of the New Mexico Environment Department (Enclosure 1) the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) collected characterization samples from three septic tank/leachfield systems at Los Alamos National Laboratory on September 24, 2104. Samples of the liquid in each septic tank were collected and submitted for analysis to the independent laboratory, *Southwest Research Institute®*, San Antonio, Texas, for (1) ground water contaminants listed in Section 20.6.2.3103 New Mexico Administrative Code (NMAC), and (2) *toxic pollutants* listed in Section 20.6.2.7.WW NMAC. Enclosure 2 contains three tables with the analytical results. Enclosure 3 is a CD containing a copy of the *Southwest Research Institute®* analytical report for this sampling event. The analytical results are briefly discussed below.

Non-filtered characterization samples were collected from the following three active septic tank/leachfield systems at Los Alamos National Laboratory: Technical Area (TA)-33-0031, TA-33-0375, and TA-33-0161 (Note: The septic tank at septic tank/leachfield system TA-33-0161 has a structure number of TA-39-0104. In this report structure number TA-39-0104 will be used in lieu of the system name, TA-33-0161). Summarized below are the reported results that exceed the numeric limits of Section 20.6.2.3103 NMAC or the Tap Water Soil Screening Levels (SSLs) listed in Table A-1 of the *NMED Risk Assessment Guidance for Site Investigations and Remediation* (February 2012).

Summarized below are the reported results that exceed the numeric limits of Section 20.6.2.3103 NMAC or the Tap Water Soil Screening Levels (SSLs) listed in Table A-1 of the *NMED Risk Assessment Guidance for Site Investigations and Remediation* (February 2012).

Sampling Location	**Results Exceeding the Numeric Limits of Section 20.6.2.3103 or Table A-1 SSLs**	**Organics Compounds Detected But Less Than the Numeric Limits of Section 20.6.2.3103 or Table A-1 SSLs**
TA-33-0375	none	Acetone[1] Isopropyltoluene[4-] Methylphenol[4-]
TA-33-0031	total iron	Acetone[1] Butanol[1-] Butanone[2-][1] Dichlorobenzene[1,4-] Toluene
TA-39-0104 (TA-33-0161)	total aluminum total cadmium total chromium total copper total iron total lead total manganese total mercury Phenol	Acetone[1] Bis(2-ethylhexyl)phthalate[1] Butanol[1-] Butanone[2-][1] Butylbenzylphthalate[1] Methylphenol[4-] Toluene

Note: [1] These detected compounds are common analytical laboratory cross-contaminants.

Please contact Robert S. Beers by telephone at (505) 667-7969 or by email at bbeers@lanl.gov if you have questions regarding this report.

Sincerely,

Alison M. Dorries
Division Leader
Environmental Protection Division
Los Alamos National Security, LLC

Sincerely,

Gene E. Turner
Environmental Permitting Manager
Environmental Projects Office
Los Alamos Field Office
Department of Energy

Mr. Jerry Schoeppner - 3 -
ENV-DO-14-0371

AMD:GET:RSB/lm

Enclosures:
1. July 30, 2014, email from NMED Ground Water Quality Bureau to DOE/LANS regarding the sampling of LANL septic tanks
2. Analytical results from the characterization sampling of three LANL septic tanks
3. CD containing the *Southwest Research Institute*® analytical report for the characterization sampling of three LANL septic tanks

Cy: James Hogan, NMED/SWQB, Santa Fe, NM
John E. Kieling, NMED/HWB, Santa Fe, NM
Steven M. Yanicak, NMED/DOE/OB, (E-File)
Hai Shen, NA-LA, (E-File)
Gene E. Turner, NA-LA, (E-File)
Kirsten Laskey, NA-LA, (E-File)
Michael A. Lansing, PADOPS, (E-File)
Amy E. De Palma, PADOPS, (E-File)
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Mr. Jerry Schoeppner, Chief
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New Mexico Environment Department
Harold Runnels Building, Room N2250
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, NM 87502

Dear Mr. Schoeppner:

Subject: **Analytical Results from Sampling Three Septic Tank/Leachfield Systems at Los Alamos National Laboratory, DP-1589**

At the recommendation of the New Mexico Environment Department (Enclosure 1) the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) collected characterization samples from three septic tank/leachfield systems at Los Alamos National Laboratory on September 24, 2104. Samples of the liquid in each septic tank were collected and submitted for analysis to the independent laboratory, *Southwest Research Institute®*, San Antonio, Texas, for (1) ground water contaminants listed in Section 20.6.2.3103 New Mexico Administrative Code (NMAC), and (2) *toxic pollutants* listed in Section 20.6.2.7.WW NMAC. Enclosure 2 contains three tables with the analytical results. Enclosure 3 is a CD containing a copy of the *Southwest Research Institute®* analytical report for this sampling event. The analytical results are briefly discussed below.

Non-filtered characterization samples were collected from the following three active septic tank/leachfield systems at Los Alamos National Laboratory: Technical Area (TA)-33-0031, TA-33-0375, and TA-33-0161 (Note: The septic tank at septic tank/leachfield system TA-33-0161 has a structure number of TA-39-0104. In this report structure number TA-39-0104 will be used in lieu of the system name, TA-33-0161). Summarized below are the reported results that exceed the numeric limits of Section 20.6.2.3103 NMAC or the Tap Water Soil Screening Levels (SSLs) listed in Table A-1 of the *NMED Risk Assessment Guidance for Site Investigations and Remediation* (February 2012).

ENCLOSURE 1

July 30, 2014, email from NMED Ground Water Quality Bureau to DOE/LANS regarding the sampling of LANL septic tanks

ENV-DO-14-0371

LA-UR-14-29132

Date: DEC 1 8 2014

ENV-DO-14-0371 **ENCLOSURE 1** **LA-UR-14-29132**

From: Knutson, Gerald, NMENV
To: Beers, Bob
Cc: Saladen, Michael Thomas; Turner, Gene E; Pruett, Jennifer, NMENV; Hall, John, NMENV; Schall, Brian, NMENV
Subject: RE: Sampling LANL Septic Tanks
Date: Wednesday, July 30, 2014 3:16:17 PM

Bob,

Below are replies to your questions:

1. NMED-GWQB is not requiring LANL to collect characterization samples from the three septic tank/disposal systems. The GWQB is recommending the sampling of the three systems.
2. The system discussed are TA-33-0031, TA-33-0161 and TA-33-0375.
3. Since the sampling of the three systems is not required, LANL will have to determine if the samples are to be analyzed for all standards listed under 20.6.2.3103 NMAC and/or for all contaminants listed under 20.6.2.7.WW NMAC.
4. The septic tank samples should be taken under the scum layer and as close to the outlet to the leachfield as safely possible.

If you have any questions, please reply or call me at 505-827-2996.

Sincerely,

Jake Knutson
NMED-GWQB

From: Beers, Bob [mailto:bbeers@lanl.gov]
Sent: Wednesday, July 30, 2014 2:18 PM
To: Knutson, Gerald, NMENV
Cc: Saladen, Michael Thomas; Turner, Gene E
Subject: Sampling LANL Septic Tanks

Hi Jake,

I have a few questions for you regarding the sampling of septic tank/leachfield systems:

1. Please confirm which LANL septic tank/leachfield systems you have identified as requiring characterization sampling to demonstrate that they are domestic systems, not industrial. On my list are the following: TA-33-0031, TA-33-0161, and TA-33-0375. Is this list complete?

2. Should characterization sampling include both the §20.6.2.3103 contaminants and all Toxic Pollutants?

3. As you know, access to the inside of septic tanks is often limited to one or two lids. Is any sampling location within the tank acceptable?

ENCLOSURE 2

Analytical results from the characterization sampling of three LANL septic tanks

ENV-DO-14-0371

LA-UR-14-29132

Date: DEC 1 8 2014

Table 1.0. Analytical results from the sampling of septic tank TA-33-0375, Los Alamos National Laboratory

Field Sample ID	Date Sampled	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Y/N	Validation Qualifier	Validation Reason Codes	NM Groundwater Standard
General Inorganics, Radiologicals & Metals									
WST33-14-87572	9/24/2014	Aluminum	100	ug/L	U	N	U	U_LAB	5000
WST33-14-87572	9/24/2014	Arsenic	0.97	ug/L	J	Y	J	J_LAB	100
WST33-14-87572	9/24/2014	Barium	33.6	ug/L		Y	NQ	NQ	1000
WST33-14-87572	9/24/2014	Boron	49.6	ug/L		Y	NQ	NQ	750
WST33-14-87572	9/24/2014	Cadmium	0.1	ug/L	U	N	U	U_LAB	10
WST33-14-87572	9/24/2014	Chloride	52.9	mg/L		Y	NQ	NQ	250
WST33-14-87572	9/24/2014	Chromium	1.87	ug/L	J	Y	J	J_LAB	50
WST33-14-87572	9/24/2014	Cobalt	0.5	ug/L	U	N	U	U_LAB	50
WST33-14-87572	9/24/2014	Copper	8.05	ug/L		Y	NQ	NQ	1000
WST33-14-87572	9/24/2014	Cyanide (Total)	0.005	mg/L	U	N	U	U_LAB	200
WST33-14-87572	9/24/2014	Fluoride	0.288	mg/L		Y	NQ	NQ	1.6
WST33-14-87572	9/24/2014	Iron	541	ug/L		Y	NQ	NQ	1000
WST33-14-87572	9/24/2014	Lead	1.1	ug/L	J	Y	J	J_LAB	50
WST33-14-87572	9/24/2014	Manganese	51.4	ug/L		Y	NQ	NQ	200
WST33-14-87572	9/24/2014	Mercury	0.1	ug/L	U	N	U	U_LAB	2
WST33-14-87572	9/24/2014	Molybdenum	1.07	ug/L	J	Y	J	J_LAB	1000
WST33-14-87572	9/24/2014	Nickel	4.13	ug/L		Y	NQ	NQ	200
WST33-14-87572	9/24/2014	Nitrate-Nitrite as Nitrogen	0.0163	mg/L	J	Y	J	J_LAB	10
WST33-14-87572	9/24/2014	Radium-228	0.425	pCi/L		Y	NQ	NQ	30*
WST33-14-87572	9/24/2014	Radium-226	0.234	pCi/L	U	N	U	R5	30*
WST33-14-87572	9/24/2014	Silver	0.2	ug/L	U	N	U	U_LAB	50
WST33-14-87572	9/24/2014	Selenium	2	ug/L	UI	N	U	U_LAB	50
WST33-14-87572	9/24/2014	Sulfate	14.2	mg/L		Y	NQ	NQ	600
WST33-14-87572	9/24/2014	Total Dissolved Solids	406	mg/L		Y	NQ	NQ	1000
WST33-14-87572	9/24/2014	Uranium	0.157	ug/L	J	Y	J	J_LAB	30
WST33-14-87572	9/24/2014	Zinc	72	ug/L		Y	NQ	NQ	10,000
WST33-14-87572	9/24/2014	pH	6.89	su					6 to 9
Note: Standard of 30 pCi/L is the sum of the Ra-226 & -228 results.									
Organics Detected									
WST33-14-87572	9/24/2014	Acetone	10	ug/L		Y	NQ	NQ	no std
WST33-14-87572	9/24/2014	Isopropyltoluene[4-]	1.5	ug/L		Y	NQ	NQ	no std
WST33-14-87572	9/24/2014	Methylphenol[4-]	140	ug/L		Y	NQ	NQ	no std
Organics Not Detected									
WST33-14-87572	9/24/2014	Acenaphthene	50	ug/L	U	N	U	U_LAB	NA**
WST33-14-87572	9/24/2014	Acenaphthylene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Acetonitrile	10	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Acrolein	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Acrylonitrile	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Alkalinity-CO3	4	mg/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Aniline	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Anthracene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Aroclor-1016	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Aroclor-1221	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Aroclor-1232	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Aroclor-1242	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Aroclor-1248	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Aroclor-1254	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Aroclor-1260	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Atrazine	50	ug/L	U	N	U	U_LAB	NA

Field Sample ID	Date Sampled	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Y/N	Validation Qualifier	Validation Reason Codes	NM Groundwater Standard
WST33-14-87572	9/24/2014	Azobenzene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Benzene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Benzidine	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Benzo(a)anthracene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Benzo(a)pyrene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Benzo(b)fluoranthene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Benzo(g,h,i)perylene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Benzo(k)fluoranthene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Benzoic Acid	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Benzyl Alcohol	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Beryllium	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Bis(2-chloroethoxy)methane	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Bis(2-chloroethyl)ether	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Bis(2-ethylhexyl)phthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Bromobenzene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Bromochloromethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Bromodichloromethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Bromoform	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Bromomethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Bromophenyl-phenylether[4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Butanol[1-]	10	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Butanone[2-]	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Butylbenzene[n-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Butylbenzene[sec-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Butylbenzene[tert-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Butylbenzylphthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Carbon Tetrachloride	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chloro-1,3-butadiene[2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chloro-1-propene[3-]	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chloro-3-methylphenol[4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chloroaniline[4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chlorobenzene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chlorodibromomethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chloroethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chloroform	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chloromethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chloronaphthalene[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chlorophenol[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chlorophenyl-phenyl[4-] Ether	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chlorotoluene[2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chlorotoluene[4-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Chrysene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dibenz(a,h)anthracene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dibenzofuran	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dibromo-3-Chloropropane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dibromoethane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dibromomethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichlorobenzene[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichlorobenzene[1,2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichlorobenzene[1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichlorobenzene[1,3-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichlorobenzene[1,4-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichlorobenzene[1,4-]	50	ug/L	U	N	U	U_LAB	NA

Field Sample ID	Date Sampled	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Y/N	Validation Qualifier	Validation Reason Codes	NM Groundwater Standard
WST33-14-87572	9/24/2014	Dichlorobenzidine[3,3'-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichlorodifluoromethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloroethane[1,1-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloroethane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloroethene[1,1-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloroethene[cis/trans-1,2-]	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloroethene[cis-1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloroethene[trans-1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichlorophenol[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloropropane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloropropane[1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloropropane[2,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloropropene[1,1-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloropropene[cis-1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dichloropropene[trans-1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Diethyl Ether	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Diethylphthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dimethyl Phthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dimethylphenol[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Di-n-butylphthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dinitro-2-methylphenol[4,6-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dinitrophenol[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dinitrotoluene[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dinitrotoluene[2,6-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Di-n-octylphthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dinoseb	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dioxane[1,4-]	20	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Dioxane[1,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Ethyl Methacrylate	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Ethylbenzene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Fluoranthene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Fluorene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Hexachlorobenzene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Hexachlorobutadiene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Hexachlorobutadiene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Hexachlorocyclopentadiene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Hexachloroethane	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Hexanone[2-]	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Indeno(1,2,3-cd)pyrene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Iodomethane	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Isobutyl alcohol	10	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Isophorone	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Isopropylbenzene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Methacrylonitrile	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Methyl Methacrylate	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Methyl tert-Butyl Ether	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Methyl-2-pentanone[4-]	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Methylene Chloride	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Methylnaphthalene[1-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Methylnaphthalene[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Methylphenol[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Naphthalene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Naphthalene	50	ug/L	U	N	U	U_LAB	NA

Field Sample ID	Date Sampled	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Y/N	Validation Qualifier	Validation Reason Codes	NM Groundwater Standard
WST33-14-87572	9/24/2014	Nitroaniline[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Nitroaniline[3-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Nitroaniline[4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Nitrobenzene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Nitrophenol[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Nitrophenol[4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Nitrosodiethylamine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Nitrosodimethylamine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Nitroso-di-n-butylamine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Nitroso-di-n-propylamine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Nitrosopyrrolidine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Oxybis(1-chloropropane)[2,2'-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Pentachlorobenzene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Pentachlorophenol	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Phenanthrene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Phenol	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Propionitrile	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Propylbenzene[1-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Pyrene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Pyridine	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Styrene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Tetrachlorobenzene[1,2,4,5]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Tetrachloroethane[1,1,1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Tetrachloroethane[1,1,2,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Tetrachloroethene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Tetrachlorophenol[2,3,4,6-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Toluene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trichlorobenzene[1,2,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trichlorobenzene[1,2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trichloroethane[1,1,1-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trichloroethane[1,1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trichloroethene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trichlorofluoromethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trichlorophenol[2,4,5-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trichlorophenol[2,4,6-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trichloropropane[1,2,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trimethylbenzene[1,2,4-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Trimethylbenzene[1,3,5-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Vinyl acetate	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Vinyl Chloride	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Xylene[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87572	9/24/2014	Xylene[1,3-]+Xylene[1,4-]	2	ug/L	U	N	U	U_LAB	NA

Note: NA means that no standard is listed because the associated contaminant was not detected.**

Table 2.0. Analytical results from the sampling of septic tank TA-33-0031, Los Alamos National Laboratory

Field Sample ID	Date Sampled	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Y/N	Validation Qualifier	Validation Reason Code	NM Groundwater Standard
General Inorganics, Radiologicals & Metals									
WST33-14-87573	9/24/2014	Aluminum	956	ug/L		Y	NQ	NQ	5000
WST33-14-87573	9/24/2014	Arsenic	2.76	ug/L	J	Y	J	J_LAB	100
WST33-14-87573	9/24/2014	Barium	125	ug/L		Y	NQ	NQ	1000
WST33-14-87573	9/24/2014	Boron	85.9	ug/L		Y	NQ	NQ	750
WST33-14-87573	9/24/2014	Cadmium	1.59	ug/L		Y	NQ	NQ	10
WST33-14-87573	9/24/2014	Chloride	52.2	mg/L		Y	NQ	NQ	250
WST33-14-87573	9/24/2014	Chromium	14.1	ug/L		Y	NQ	NQ	50
WST33-14-87573	9/24/2014	Cobalt	2.03	ug/L		Y	NQ	NQ	50
WST33-14-87573	9/24/2014	Copper	130	ug/L		Y	NQ	NQ	1000
WST33-14-87573	9/24/2014	Cyanide (Total)	0.0056	mg/L	J	Y	J	J_LAB	200
WST33-14-87573	9/24/2014	Fluoride	0.319	mg/L		Y	NQ	NQ	1.6
WST33-14-87573	9/24/2014	Iron	5520	ug/L		Y	NQ	NQ	1000
WST33-14-87573	9/24/2014	Lead	28.8	ug/L		Y	NQ	NQ	50
WST33-14-87573	9/24/2014	Manganese	133	ug/L		Y	NQ	NQ	200
WST33-14-87573	9/24/2014	Mercury	1.62	ug/L		Y	NQ	NQ	2
WST33-14-87573	9/24/2014	Molybdenum	6.35	ug/L	J	Y	J	J_LAB	1000
WST33-14-87573	9/24/2014	Nickel	13.5	ug/L		Y	NQ	NQ	200
WST33-14-87573	9/24/2014	Nitrate-Nitrite as Nitrogen	0.0324	mg/L	J	Y	J	J_LAB	10
WST33-14-87573	9/24/2014	Radium-228	0.436	pCi/L		Y	NQ	NQ	30*
WST33-14-87573	9/24/2014	Radium-226	0.309	pCi/L	U	N	U	R5	30*
WST33-14-87573	9/24/2014	Selenium	2.65	ug/L	I	Y	NQ	NQ	50
WST33-14-87573	9/24/2014	Silver	1.04	ug/L		Y	NQ	NQ	50
WST33-14-87573	9/24/2014	Sulfate	11	mg/L		Y	NQ	NQ	600
WST33-14-87573	9/24/2014	Total Dissolved Solids	472	mg/L		Y	NQ	NQ	1000
WST33-14-87573	9/24/2014	Uranium	3.25	ug/L		Y	NQ	NQ	30
WST33-14-87573	9/24/2014	Zinc	856	ug/L		Y	NQ	NQ	10,000
WST33-14-87573	9/24/2014	pH	6.73	su					6 to 9
Note: Standard of 30 pCi/L is the sum of the Ra-226 & -228 results.									
Organics Detected									
WST33-14-87573	9/24/2014	Acetone	25	ug/L		Y	NQ	NQ	no std
WST33-14-87573	9/24/2014	Butanol[1-]	130	ug/L		Y	NQ	NQ	no std
WST33-14-87573	9/24/2014	Butanol[1-]	42	ug/L		Y	NQ	NQ	no std
WST33-14-87573	9/24/2014	Butanone[2-]	2.5	ug/L		Y	NQ	NQ	no std
WST33-14-87573	9/24/2014	Dichlorobenzene[1,4-]	1.8	ug/L		Y	NQ	NQ	4.3
WST33-14-87573	9/24/2014	Toluene	1.6	ug/L		Y	NQ	NQ	750
Organics Not Detected									
WST33-14-87573	9/24/2014	Acenaphthene	50	ug/L	U	N	U	U_LAB	NA**
WST33-14-87573	9/24/2014	Acenaphthylene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Acetone	18	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Acetonitrile	88	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Acetonitrile	10	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Acrolein	44	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Acrolein	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Acrylonitrile	18	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Acrylonitrile	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Aniline	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Anthracene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Aroclor-1016	5	ug/L	U	N	U	U_LAB	NA

Field Sample ID	Date Sampled	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Y/N	Validation Qualifier	Validation Reason Code	NM Groundwater Standard
WST33-14-87573	9/24/2014	Aroclor-1221	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Aroclor-1232	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Aroclor-1242	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Aroclor-1248	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Aroclor-1254	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Aroclor-1260	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Atrazine	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Azobenzene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Benzene	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Benzene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Benzidine	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Benzo(a)anthracene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Benzo(a)pyrene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Benzo(b)fluoranthene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Benzo(g,h,i)perylene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Benzo(k)fluoranthene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Benzyl Alcohol	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bis(2-chloroethoxy)methane	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bis(2-chloroethyl)ether	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bis(2-ethylhexyl)phthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bromobenzene	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bromobenzene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bromochloromethane	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bromochloromethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bromodichloromethane	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bromodichloromethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bromoform	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bromoform	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bromomethane	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bromomethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Bromophenyl-phenylether[4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Butanone[2-]	18	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Butylbenzene[n-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Butylbenzene[n-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Butylbenzene[sec-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Butylbenzene[sec-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Butylbenzene[tert-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Butylbenzene[tert-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Butylbenzylphthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Carbon Disulfide	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Carbon Tetrachloride	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Carbon Tetrachloride	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloro-1,3-butadiene[2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloro-1,3-butadiene[2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloro-1-propene[3-]	18	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloro-1-propene[3-]	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloro-3-methylphenol[4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloroaniline[4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chlorobenzene	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chlorobenzene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chlorodibromomethane	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chlorodibromomethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloroethane	8.8	ug/L	U	N	U	U_LAB	NA

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WST33-14-87573	9/24/2014	Chloroethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloroform	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloroform	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloromethane	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloromethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chloronaphthalene[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chlorophenol[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chlorophenyl-phenyl[4-] Ether	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chlorotoluene[2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chlorotoluene[2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chlorotoluene[4-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chlorotoluene[4-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Chrysene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dibenz(a,h)anthracene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dibenzofuran	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dibromo-3-Chloropropane[1,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dibromo-3-Chloropropane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dibromoethane[1,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dibromoethane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dibromomethane	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dibromomethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorobenzene[1,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorobenzene[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorobenzene[1,2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorobenzene[1,3-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorobenzene[1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorobenzene[1,3-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorobenzene[1,4-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorobenzene[1,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorobenzidine[3,3'-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorodifluoromethane	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorodifluoromethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethane[1,1-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethane[1,1-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethane[1,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethene[1,1-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethene[1,1-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethene[cis/trans-1,2-]	18	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethene[cis/trans-1,2-]	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethene[cis-1,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethene[cis-1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethene[trans-1,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloroethene[trans-1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichlorophenol[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloropropane[1,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloropropane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloropropane[1,3-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloropropane[1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloropropane[2,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloropropane[2,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloropropene[1,1-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloropropene[1,1-]	1	ug/L	U	N	U	U_LAB	NA

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WST33-14-87573	9/24/2014	Dichloropropene[cis-1,3-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloropropene[cis-1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloropropene[trans-1,3-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dichloropropene[trans-1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Diethyl Ether	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Diethyl Ether	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Diethylphthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dimethyl Phthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dimethylphenol[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Di-n-butylphthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dinitro-2-methylphenol[4,6-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dinitrophenol[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dinitrotoluene[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dinitrotoluene[2,6-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Di-n-octylphthalate	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dinoseb	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dioxane[1,4-]	180	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dioxane[1,4-]	20	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Dioxane[1,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Ethyl Methacrylate	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Ethyl Methacrylate	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Ethylbenzene	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Ethylbenzene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Fluoranthene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Fluorene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Hexachlorobenzene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Hexachlorobutadiene	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Hexachlorobutadiene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Hexachlorobutadiene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Hexachlorocyclopentadiene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Hexachloroethane	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Hexanone[2-]	18	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Hexanone[2-]	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Indeno(1,2,3-cd)pyrene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Iodomethane	18	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Iodomethane	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Isobutyl alcohol	88	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Isobutyl alcohol	10	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Isophorone	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Isopropylbenzene	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Isopropylbenzene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Isopropyltoluene[4-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Isopropyltoluene[4-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methacrylonitrile	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methacrylonitrile	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methyl Methacrylate	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methyl Methacrylate	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methyl tert-Butyl Ether	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methyl tert-Butyl Ether	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methyl-2-pentanone[4-]	18	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methyl-2-pentanone[4-]	2	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methylene Chloride	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methylene Chloride	1	ug/L	U	N	U	U_LAB	NA

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WST33-14-87573	9/24/2014	Methylnaphthalene[1-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methylnaphthalene[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methylphenol[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Methylphenol[4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Naphthalene	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Naphthalene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Naphthalene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Nitroaniline[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Nitroaniline[3-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Nitroaniline[4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Nitrobenzene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Nitrophenol[2-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Nitrophenol[4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Nitrosodiethylamine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Nitrosodimethylamine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Nitroso-di-n-butylamine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Nitroso-di-n-propylamine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Nitrosopyrrolidine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Oxybis(1-chloropropane)[2,2'-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Pentachlorobenzene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Pentachlorophenol	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Phenanthrene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Phenol	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Propionitrile	44	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Propionitrile	5	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Propylbenzene[1-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Propylbenzene[1-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Pyrene	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Pyridine	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Styrene	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Styrene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Tetrachlorobenzene[1,2,4,5]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Tetrachloroethane[1,1,1,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Tetrachloroethane[1,1,1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Tetrachloroethane[1,1,2,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Tetrachloroethane[1,1,2,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Tetrachloroethene	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Tetrachloroethene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Tetrachlorophenol[2,3,4,6-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Toluene	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichlorobenzene[1,2,3-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichlorobenzene[1,2,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichlorobenzene[1,2,4-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichlorobenzene[1,2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichloroethane[1,1,1-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichloroethane[1,1,1-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichloroethane[1,1,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichloroethane[1,1,2-]	1	ug/L	U	N	U	U_LAB	NA

Field Sample ID	Date Sampled	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Y/N	Validation Qualifier	Validation Reason Code	NM Groundwater Standard
WST33-14-87573	9/24/2014	Trichloroethene	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichloroethene	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichlorofluoromethane	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichlorofluoromethane	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichlorophenol[2,4,5-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichlorophenol[2,4,6-]	50	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichloropropane[1,2,3-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trichloropropane[1,2,3-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trimethylbenzene[1,2,4-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trimethylbenzene[1,2,4-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trimethylbenzene[1,3,5-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Trimethylbenzene[1,3,5-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Vinyl acetate	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Vinyl acetate	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Vinyl Chloride	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Vinyl Chloride	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Xylene[1,2-]	8.8	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Xylene[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Xylene[1,3-]+Xylene[1,4-]	18	ug/L	U	N	U	U_LAB	NA
WST33-14-87573	9/24/2014	Xylene[1,3-]+Xylene[1,4-]	2	ug/L	U	N	U	U_LAB	NA

Note: NA means that no standard is listed because the associated contaminant was not detected.**

Table 3.0. Analytical results from the sampling of septic tank TA-39-0104, Los Alamos National Laboratory

Field Sample ID	Date Sampled	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Y/N	Validation Qualifier	Validation Reason Code	NM Groundwater Standard
General Inorganics, Radiologicals & Metals									
WST39-14-87575	9/24/2014	Aluminum	7830	ug/L		Y	NQ	NQ	5000
WST39-14-87575	9/24/2014	Arsenic	17.5	ug/L		Y	NQ	NQ	100
WST39-14-87575	9/24/2014	Barium	360	ug/L		Y	NQ	NQ	1000
WST39-14-87575	9/24/2014	Boron	61.4	ug/L		Y	NQ	NQ	750
WST39-14-87575	9/24/2014	Cadmium	15.8	ug/L		Y	NQ	NQ	10
WST39-14-87575	9/24/2014	Chloride	74.7	mg/L		Y	NQ	NQ	250
WST39-14-87575	9/24/2014	Chromium	90.3	ug/L		Y	NQ	NQ	50
WST39-14-87575	9/24/2014	Cobalt	7.17	ug/L		Y	NQ	NQ	50
WST39-14-87575	9/24/2014	Copper	1290	ug/L		Y	NQ	NQ	1000
WST39-14-87575	9/24/2014	Cyanide (Total)	0.172	mg/L		Y	NQ	NQ	200
WST39-14-87575	9/24/2014	Fluoride	0.281	mg/L		Y	NQ	NQ	1.6
WST39-14-87575	9/24/2014	Iron	34300	ug/L		Y	NQ	NQ	1000
WST39-14-87575	9/24/2014	Lead	153	ug/L		Y	NQ	NQ	50
WST39-14-87575	9/24/2014	Manganese	320	ug/L		Y	NQ	NQ	200
WST39-14-87575	9/24/2014	Mercury	3.6	ug/L		Y	NQ	NQ	2
WST39-14-87575	9/24/2014	Molybdenum	49.9	ug/L		Y	NQ	NQ	1000
WST39-14-87575	9/24/2014	Nickel	43.6	ug/L		Y	NQ	NQ	200
WST39-14-87575	9/24/2014	Nitrate-Nitrite as Nitrogen	0.0246	mg/L	J	Y	J	J_LAB	10
WST39-14-87575	9/24/2014	Radium-226	0.5	pCi/L	U	N	U	R11	30*
WST39-14-87575	9/24/2014	Radium-228	-0.00477	pCi/L	U	N	U	R5	30*
WST39-14-87575	9/24/2014	Selenium	8.92	ug/L	I	Y	NQ	NQ	50
WST39-14-87575	9/24/2014	Silver	44.4	ug/L		Y	NQ	NQ	50
WST39-14-87575	9/24/2014	Sulfate	23.7	mg/L		Y	NQ	NQ	600
WST39-14-87575	9/24/2014	Total Dissolved Solids	448	mg/L		Y	NQ	NQ	1000
WST39-14-87575	9/24/2014	Uranium	18.7	ug/L		Y	NQ	NQ	30
WST39-14-87575	9/24/2014	Zinc	7320	ug/L		Y	NQ	NQ	10,000
WST39-14-87575	9/24/2014	pH	7.21	su					6 to 9
Note: Standard of 30 pCi/L is the sum of the Ra-226 & -228 results.									
Organics Detected									
WST39-14-87575	9/24/2014	Acetone	30	ug/L		Y	NQ	NQ	no std
WST39-14-87575	9/24/2014	Bis(2-ethylhexyl)phthalate	26	ug/L	J	Y	J	J_LAB	48
WST39-14-87575	9/24/2014	Butanol[1-]	170	ug/L		Y	NQ	NQ	no std
WST39-14-87575	9/24/2014	Butanone[2-]	3.8	ug/L		Y	NQ	NQ	no std
WST39-14-87575	9/24/2014	Butylbenzylphthalate	31	ug/L	J	Y	J	J_LAB	no std
WST39-14-87575	9/24/2014	Methylphenol[4-]	25	ug/L	J	Y	J	J_LAB	no std
WST39-14-87575	9/24/2014	Phenol	27	ug/L	J	Y	J	J_LAB	5
WST39-14-87575	9/24/2014	Toluene	2.7	ug/L		Y	NQ	NQ	750
Organics Not Detected									
WST39-14-87575	9/24/2014	Acenaphthene	50	ug/L	U	N	U	U_LAB	NA**
WST39-14-87575	9/24/2014	Acenaphthylene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Acetonitrile	10	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Acrolein	5	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Acrylonitrile	2	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Aniline	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Anthracene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Aroclor-1016	5	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Aroclor-1221	5	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Aroclor-1232	5	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Aroclor-1242	5	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Aroclor-1248	5	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Aroclor-1254	5	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Aroclor-1260	5	ug/L	U	N	U	U_LAB	NA

Field Sample ID	Date Sampled	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Y/N	Validation Qualifier	Validation Reason Code	NM Groundwater Standard
WST39-14-87575	9/24/2014	Atrazine	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Azobenzene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Benzene	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Benzidine	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Benzo(a)anthracene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Benzo(a)pyrene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Benzo(b)fluoranthene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Benzo(g,h,i)perylene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Benzo(k)fluoranthene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Benzyl Alcohol	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Bis(2-chloroethoxy)methane	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Bis(2-chloroethyl)ether	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Bromide	0.1	mg/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Bromobenzene	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Bromochloromethane	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Bromodichloromethane	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Bromoform	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Bromomethane	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Bromophenyl-phenylether[4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Butylbenzene[n-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Butylbenzene[sec-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Butylbenzene[tert-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Carbon Tetrachloride	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chloro-1,3-butadiene[2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chloro-1-propene[3-]	2	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chloro-3-methylphenol[4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chloroaniline[4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chlorobenzene	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chlorodibromomethane	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chloroethane	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chloroform	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chloromethane	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chloronaphthalene[2-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chlorophenol[2-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chlorophenyl-phenyl[4-] Ether	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chlorotoluene[2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chlorotoluene[4-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Chrysene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dibenz(a,h)anthracene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dibenzofuran	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dibromo-3-Chloropropane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dibromoethane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dibromomethane	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichlorobenzene[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichlorobenzene[1,2-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichlorobenzene[1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichlorobenzene[1,3-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichlorobenzene[1,4-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichlorobenzene[1,4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichlorobenzidine[3,3'-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichlorodifluoromethane	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichloroethane[1,1-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichloroethane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichloroethene[1,1-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichloroethene[cis/trans-1,2-]	2	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichloroethene[cis-1,2-]	1	ug/L	U	N	U	U_LAB	NA

Field Sample ID	Date Sampled	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Y/N	Validation Qualifier	Validation Reason Code	NM Groundwater Standard
WST39-14-87575	9/24/2014	Dichloroethene[trans-1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichlorophenol[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichloropropane[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichloropropane[1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichloropropane[2,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichloropropene[1,1-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichloropropene[cis-1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dichloropropene[trans-1,3-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Diethyl Ether	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Diethylphthalate	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dimethyl Phthalate	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dimethylphenol[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Di-n-butylphthalate	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dinitro-2-methylphenol[4,6-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dinitrophenol[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dinitrotoluene[2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dinitrotoluene[2,6-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Di-n-octylphthalate	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dinoseb	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dioxane[1,4-]	20	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Dioxane[1,4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Ethyl Methacrylate	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Ethylbenzene	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Fluoranthene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Fluorene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Hexachlorobenzene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Hexachlorobutadiene	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Hexachlorobutadiene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Hexachlorocyclopentadiene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Hexachloroethane	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Hexanone[2-]	2	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Indeno(1,2,3-cd)pyrene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Iodomethane	2	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Isobutyl alcohol	10	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Isophorone	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Isopropylbenzene	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Isopropyltoluene[4-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Methacrylonitrile	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Methyl Methacrylate	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Methyl tert-Butyl Ether	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Methyl-2-pentanone[4-]	2	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Methylene Chloride	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Methylnaphthalene[1-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Methylnaphthalene[2-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Methylphenol[2-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Naphthalene	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Naphthalene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Nitroaniline[2-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Nitroaniline[3-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Nitroaniline[4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Nitrobenzene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Nitrophenol[2-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Nitrophenol[4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Nitrosodiethylamine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Nitrosodimethylamine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Nitroso-di-n-butylamine[N-]	50	ug/L	U	N	U	U_LAB	NA

Field Sample ID	Date Sampled	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Y/N	Validation Qualifier	Validation Reason Code	NM Groundwater Standard
WST39-14-87575	9/24/2014	Nitroso-di-n-propylamine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Nitrosopyrrolidine[N-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Oxybis(1-chloropropane)[2,2'-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Pentachlorobenzene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Pentachlorophenol	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Phenanthrene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Propionitrile	5	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Propylbenzene[1-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Pyrene	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Pyridine	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Styrene	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Tetrachlorobenzene[1,2,4,5]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Tetrachloroethane[1,1,1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Tetrachloroethane[1,1,2,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Tetrachloroethene	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Tetrachlorophenol[2,3,4,6-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trichlorobenzene[1,2,3-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trichlorobenzene[1,2,4-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trichloroethane[1,1,1-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trichloroethane[1,1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trichloroethene	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trichlorofluoromethane	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trichlorophenol[2,4,5-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trichlorophenol[2,4,6-]	50	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trichloropropane[1,2,3-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trimethylbenzene[1,2,4-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Trimethylbenzene[1,3,5-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Vinyl acetate	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Vinyl Chloride	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Xylene[1,2-]	1	ug/L	U	N	U	U_LAB	NA
WST39-14-87575	9/24/2014	Xylene[1,3-]+Xylene[1,4-]	2	ug/L	U	N	U	U_LAB	NA

Note: NA means that no standard is listed because the associated contaminant was not detected.**

ENCLOSURE 2

April 21, 2015, Letter from NMED Hazardous Waste Bureau to DOE/LANS requiring a SWMU Assessment Report for Septic Tank/Leachfield Systems at TA-33

ENV-DO-15-0150

LA-UR-15-24050

Date: JUN 18 2015

NEW MEXICO
ENVIRONMENT DEPARTMENT

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Phone (505) 476-6000 Fax (505) 476-6030
www.nmenv.state.nm.us

SUSANA MARTINEZ
Governor
JOHN A. SANCHEZ
Lieutenant Governor

RYAN FLYNN
Cabinet Secretary
BUTCH TONGATE
Deputy Secretary

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

April 21, 2015

Christine Gelles
Acting Assistant Manager
National Nuclear Security Administration
Los Alamos Field Office
3747 West Jemez Rd, MS A316
Los Alamos, NM 87544

Michael T. Brandt
Associate Director
Environment, Safety, Health
Los Alamos National Laboratory
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: SOLID WASTE MANAGEMENT UNIT ASSESSMENT REPORT REQUIREMENT FOR SEPTIC TANK/LEACHFIELD SYSTEMS AT TECHNICAL AREA 33
LOS ALAMOS NATIONAL LABORATORY
EPA ID#NM0890010515
HWB-LANL-MISC**

Dear Ms. Gelles and Mr. Brandt:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Analytical Results from Sampling Three Septic Tank/Leachfield Systems at Los Alamos National Laboratory, DP-1589* (Report), dated December 18, 2014 and referenced by ENV-DO-14-0371/LAUR 14-29132. The Report indicates that hazardous constituents were detected in liquid samples collected from three active septic tank/leachfield systems; Technical Area (TA)-33-031, TA-33-0375, and TA-33-0161.

TA-33-031 is part of Solid Waste Management Unit (SWMU) 33-004(a), which is being investigated under the *Investigation Work Plan for Chaquehui Canyon Aggregate Area, Revision 1* (IWP), approved with modifications by NMED on March 3, 2011. Therefore, a SWMU assessment report is not required for TA-33-031.

TA-33-0375 and TA-33-0161 are not listed under any SWMUs being investigated under the IWP and are not discussed in the November 2009 *Historical Investigation Report for Chaquehui Canyon Aggregate Area*. TA-33-0161 was listed in LANL's November 1990 *Solid Waste Management Unit Report* as being part of SWMU 33-004(e), which was granted No Further Action status in 1998. Based on the subsequent 16 years of continued site usage and the sampling results provided in the Report, SWMU 33-004(e) must be reassessed.

Section III.B of the March 2005 Compliance Order on Consent (Order) states, " 'Solid Waste Management Unit' or 'SWMU' means any discernible unit at which solid waste has been placed at any time and from which the Department determines there may be a risk of a release of hazardous waste or hazardous waste constituents, irrespective of whether the unit was intended for the management of solid or hazardous waste." Based on the summary table included in the Report, hazardous constituents are present in the waste within the septic tanks near the effluent discharge to the leach fields. The disposal of hazardous constituents in the septic tanks and leach fields creates the potential for migration of hazardous constituents into the subsurface that is subject to regulation under the Order.

Section V.C of the Order states that, "[w]ithin fifteen (15) days after the discovery of any newly identified SWMU or AOC, the Respondents shall notify the Department in writing of such discovery." The Report will suffice as notification of the newly identified SWMUs or AOCs.

Section V.C of the Order also states, "[w]ithin ninety (90) days after submitting such notification, the Respondents shall submit to the Department for review and written approval a SWMU Assessment Report (SAR) for each newly identified SWMU or AOC." The Permittees must provide all information required under Section V.C, including but not limited to, the requirements under Section V.C, item 5, which states, "[i]dentification of all wastes that have been managed at or in each unit, to the extent available. Include any available data on hazardous constituents in the wastes."

In accordance with Section V.C of the Order, the Permittees must submit a SAR within 90-days of the notification, which is March 18, 2015. NMED, at its discretion, requires the SAR to be submitted no later than **June 30, 2015**. All submittals (including maps) must be in the form of two paper copies and one electronic copy in accordance with Section XI.A of the Consent Order.

Please contact Dave Cobrain at (505) 476-6055 if you have questions.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: K. Roberts, NMED RPD
D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
B. Wear, NMED HWB
S. Yanicak, NMED DOE OB, MS M894
L. King, EPA 6PD-N
R. Beers, ENV-CP, MS 992
G. Turner, DOE-NA-00-LA, MS A316

File: Reading and LANL 2015, TA-33, Chaquehui Canyon Aggregate Area

ENCLOSURE 2

ENV-DO-15-0150

New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Bldg. 1
Santa Fe, NM 87505

CERTIFIED MAIL™

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04/22/2015
US POSTAGE
$06.48⁰

ZIP 87505
011C11641177

Michael T. Brandt, Associate Director
Environment, Safety, Health & Quality
Los Alamos National Security, LLC
P.O. Box 1663, ~~MS K491~~ A150
Los Alamos, NM 87545

099641
4/27/2015

APR 27 '15 AM8:15

ENCLOSURE 3

July 1, 2010, Letter from NMED GWQB to
DOE/LANS Granting Temporary Permission to
Discharge to Septic Tank TA-33-0375

ENV-DO-15-0150

LA-UR-15-24050

Date: JUN 18 2015

NEW MEXICO
ENVIRONMENT DEPARTMENT

Ground Water Quality Bureau

BILL RICHARDSON
Governor
DIANE DENISH
Lieutenant Governor

Harold Runnels Building
1190 St. Francis Drive
PO Box 5469, Santa Fe, NM 87502-5469
Phone (505) 827-2900 Fax (505) 827-2965
www.nmenv.state.nm.us

RON CURRY
Secretary
SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

July 1, 2010

Robert Beers
Los Alamos National Laboratory
Environmental Protection Division
Water Quality & RCRA Group
P.O. Box 1663, Mail Stop K490
Los Alamos, NM 87545

RE: Temporary Permission to Discharge, New Sanitary Septic Tank/Leachfield System at Technical Area 33 (TA-33), DP-1589

Dear Mr. Beers:

The New Mexico Environment Department (NMED) has reviewed your request, dated June 2, 2010, for temporary permission to discharge domestic wastewater from four buildings at TA-33 (168, 114, 19 and 280) of the Los Alamos National Laboratory (LANL) to a new septic tank/leachfield disposal system. The proposed discharge is located in TA-33, approximately 6.8 miles northwest of Los Alamos, in Section 24, T18N, R06E, Los Alamos County.

Temporary permission to discharge is hereby granted pursuant to Subsection B of 20.6.2.3106 NMAC of the New Mexico Water Quality Control Commission Regulations. This approval is contingent on your discharging as described in your June 2, 2010 request, other correspondence with NMED Ground Water Quality Bureau staff as applicable and upon the following conditions:

1. LANL shall submit the record drawings of the sanitary septic tank/leachfield system and associated collection system within 30 days of the installation of the system.
2. LANL shall identify the new septic tank/leachfield disposal system in the revised Discharge Permit application, DP-1589, due to be submitted to NMED by July 5, 2010.

This approval does not relieve you of the responsibility to comply with any other applicable federal, state, and/or local laws and regulations, such as zoning requirements and nuisance ordinances. Also, this approval does not relieve you of liability should your operation result in actual pollution of surface or ground waters.

If you have any questions, please contact Gerald Knutson of the Ground Water Pollution Prevention Section at 505-827-2996.

Sincerely,

George Scheuman for W. Olson

William C. Olson, Chief
Ground Water Quality Bureau

WO:GK

cc: Charles De Saillan, NMED-OGC
Robert Italiano, Manager, NMED District II
NMED Santa Fe Field Office
Glenn Saums, NMED SWQB
Richard Powell, NMED SWQB
James Bearzi, NMED HWB
Steven Yanicak, NMED-DOE-Oversight Bureau
Erik Galloway, NMED-DOE-Oversight Bureau

Gene Turner, LASO-EO, Los Alamos National Laboratory, A316, Los Alamos, NM 87545

Michael B. Mallory, PADOPS, Los Alamos National Laboratory, A102, Los Alamos, NM 87545

Chris Cantwell, ADESHQ, Los Alamos National Laboratory, K491, Los Alamos, NM 87545

Michael Saladen ENV-RCRA, Los Alamos National Laboratory, K490, Los Alamos, NM 87545

Jacob Meadows, ENV-RCRA, Los Alamos National Laboratory, K490, Los Alamos, NM 87545

Mark Haagenstad, ENV-RCRA, Los Alamos National Laboratory, K490, Los Alamos, NM 87545

Charles Barnett, UI-DO, Los Alamos National Laboratory, J972, Los Alamos, NM 87545

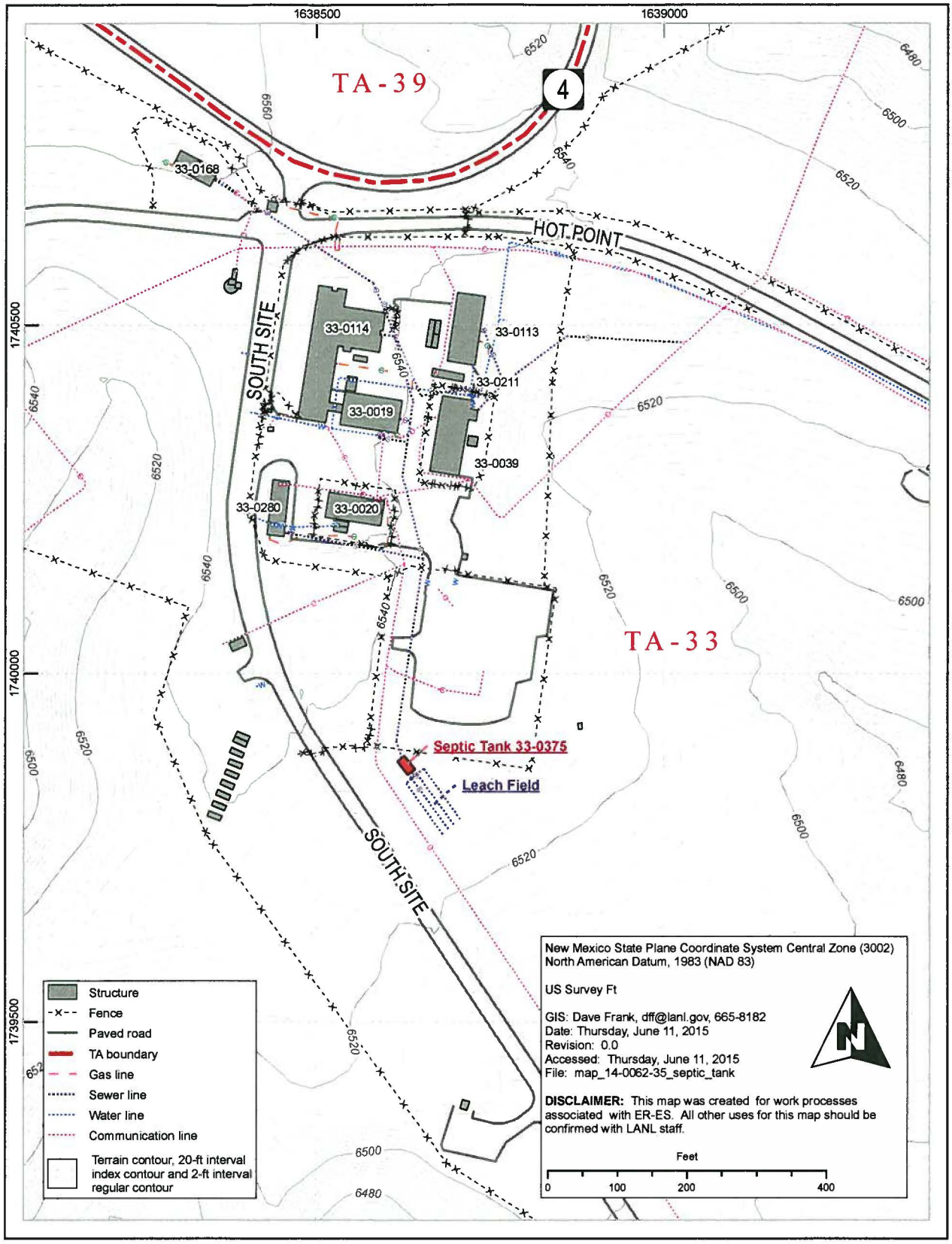
ENCLOSURE 4

Topographic Map of Septic Tank TA-33-0375

ENV-DO-15-0150

LA-UR-15-24050

Date: JUN 18 2015



Path: \\slip\gis\GIS\Projects\14-Projects\14-0062\mxd\map_14-0062-35_septic_tank.mxd

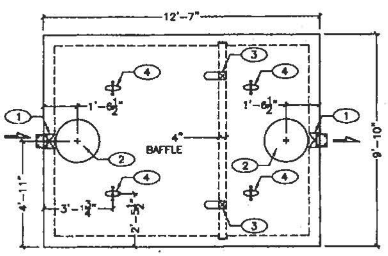
ENCLOSURE 5

Design Drawing of Septic Tank TA-33-0375

ENV-DO-15-0150

LA-UR-15-24050

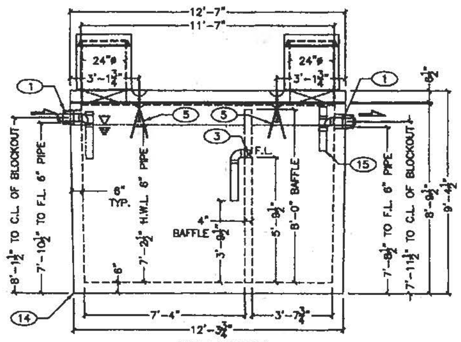
Date: JUN 1 8 2015



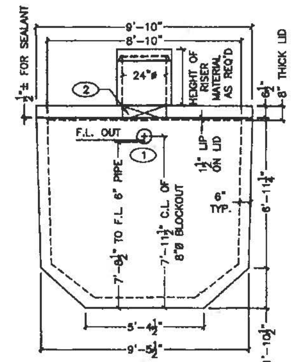
PLAN VIEW

NOTES:
1. SECOND COMPARTMENT HAS A CAPACITY EQUAL TO APPROXIMATELY 1/3 OF THE FIRST COMPARTMENT.
2. LOCATIONS/SIZES OF BLOCKOUTS FOR PIPES AND ACCESS CAN BE ALTERED FOR THE SPECIFIC APPLICATION.

WEIGHT/CONCRETE		
LID	11,312 LBS	2.79 CY
VAULT	32,702 LBS	8.07 CY
BAFFLE	3,372 LBS	0.83 CY
TOTAL	47,386 LBS	11.70 CY

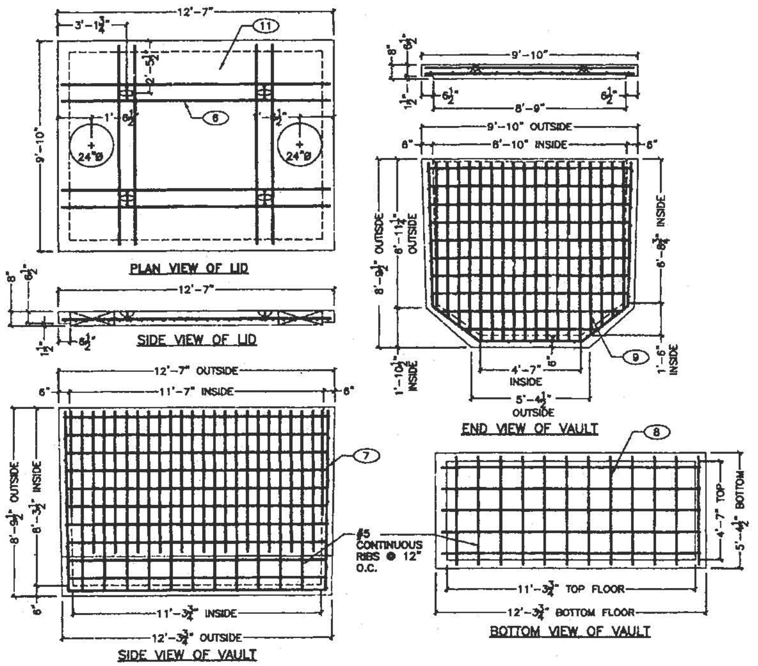


SIDE VIEW



OUTGOING PIPE

1 C-1001 SEPTIC TANK DETAIL
SCALE: NONE



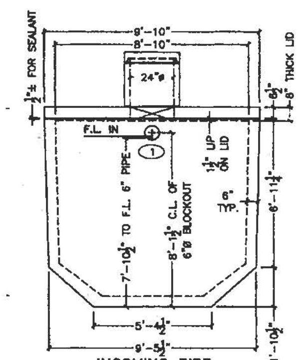
PLAN VIEW OF LID

SIDE VIEW OF LID

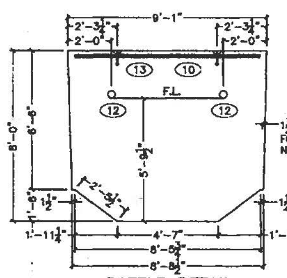
END VIEW OF VAULT

SIDE VIEW OF VAULT

BOTTOM VIEW OF VAULT



INCOMING PIPE



BAFFLE DETAIL
BAFFLE IS 4" THICK

2 C-1001 SEPTIC TANK VAULT REINFORCEMENT DETAIL
SCALE: NONE

KEYED NOTES:

1. 6"Ø BLOCKOUT WITH KOR-N-SEAL S106-8SWP (4.3-5.5-8.4)
2. 24"Ø BLOCKOUT IN LID
3. (2) 4"Ø SCH 40 PVC PIPES CAST INTO BAFFLE
4. 4-TON UTILITY LIFT CAST INTO TOP OF LID
5. P-92-F 6-TON FLEET LIFT WITH TENSION BAR CAST INTO TOP OF VAULT WALLS. (4 TOTAL)
6. LID REINFORCEMENT:
   LID TO BE 8" THICK
   SHORT BAR: #6 REBAR @ 6" O.C., 2½" OFF BOTTOM OF LID
   LONG BAR: #6 REBAR @ 12" O.C. ON TOP OF SHORT BAR
   (2) ADD'L #6 REBAR EACH SIDE OF OPENINGS @ MIN. 3" O.C.
   (1) ADD'L #4 REBAR EACH SIDE OF LIFTS. 1½" OFF TOP OF LID
7. LONG WALLS:
   VERTICAL BARS: #5 @ 6" O.C. 1½" OFF INSIDE WALL., INCLUDES #5 CONTINUOUS RIBS @ 12" O.C., AND (1) ADDITIONAL #5 BAR @ 6" BETWEEN RIBS
   HORIZONTAL BARS: #5 BAR @ 10" O.C. WELDED TO THE OUTSIDE OF VERTICAL BARS
8. FLOOR:
   #5 CONTINUOUS RIBS @ 12" O.C. 1½" OFF TOP OF FLOOR
   #5 REBAR AT 12" O.C. LENGTHWISE
9. END WALLS:
   VERTICAL BARS: #6 BAR @ 6" O.C., 1½" OFF INSIDE OF WALL
   HORIZONTAL BARS: #5 BAR @ 10" O.C., WELDED TO THE OUTSIDE OF VERTICAL BARS.
10. BAFFLE:
    #4 REBAR @ 6" O.C.E.W., CENTERED
11. LID:
    1. 5,000 PSI CONCRETE
    2. H20 RATED TO 5'-0" OF COVER
    VAULT:
    1. 4,000 PSI CONCRETE
12. 4"Ø PVC PIPES CAST INTO BAFFLE
13. P-92 2-TON FLEET-LIFT ERECTION ANCHOR CAST INTO TOP OF BAFFLE.
14. SEPTIC TANK SHALL BE PREFABRICATED REINFORCED CONCRETE AS MANUFACTURED BY COLORADO PRECAST CONCRETE INC., COLORADO, HAVING 5,000 GALLON NOMINAL CAPACITY OR ENGINEER APPROVED EQUAL.
15. EFFLUENT FILTER. SEE DETAIL 5 ON SHEET C-5000.

ECN-10-TA-33-0000-0000-0015

NO	DATE	CLASS REV	DESCRIPTION	DWN	DES	CHKD	SUB	APP
1	1/13/11	U	AS-BUILT WITHOUT CHANGES					

VIGIL ENTERPRISES, INC.
WILSON & COMPANY

TA-33 SEPTIC SYSTEM
SEPTIC TANK DETAILS

DRAWN	C. UPSHAW
DESIGN	P. CHAVEZ
CHECKED	J. BRAUER
DATE	01/13/11

BLDG. 19 TA-33
SUBMITTED: TOM ROBERTS
APPROVED FOR RELEASE: RICK NELSON

Los Alamos NATIONAL LABORATORY PO Box 1663 Los Alamos, New Mexico 87545

SHEET C-5002 10 OF 10

CLASSIFICATION | REVIEWER | DATE

PROJECT ID 102124 | DRAWING NO C55329 | REV 1

ENCLOSURE 6

Certification from the TA-33 Building Manager that TA-33-0375 only receives domestic wastewater

ENV-DO-15-0150

LA-UR-15-24050

Date: JUN 18 2015

Los Alamos National Laboratory
Certification Form

Septic Tank TA-33-0375:

No chemicals are poured down the sinks and through the drain lines connected to Septic Tank TA-33-0375. TA-33-0375 only receives domestic wastewater from the following buildings at TA-33: 19, 114, 168, and 280.

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 gather and evaluate 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.

Name of certifying official (Group Leader or above)	Title:	Organization:	Date signed:
PAUL BLUMBERG	STO-FOD OPS	STO-DO	6/2/15

190035

Los Alamos NATIONAL LABORATORY EST. 1943

Form 1824

Signature/Review/Coordination Sheet

This form is to accompany all documents requiring review, approval, or signature by the Laboratory Director or Designee.

Today's Date	Deadline Date	Is this a response to an action item?
June 11, 2015	June 30, 2015	Yes ☒ No ☐
From: Jocelyn Y. Buckley		☒ Call for Pick-up
Organization: ENV-CP		Name: Taylor Valdez Phone: 7-2211

Title: Identify document, briefly describing subject matter.

ENV-DO-15-0150/LA-UR-15-24050: TA-33 Septic Tank/Leachfield Systems - NMED Request for a SWMU Assessment Report for TA-33-0375 and to reassess SWMU 33-004(e) at TA-33.

Summary/Detail

At the recommendation of the New Mexico Environment Department Ground Water Quality Bureau (NMED-GWB), on September 24, 2014 the US Department of Energy and Los Alamos National Security, LLC (DOE/LANS) collected characterization samples from three (3) septic tanks at the Los Alamos National Laboratory (LANL). Organic constituents were detected, which prompted a request from the NMED Hazardous Waste Bureau (HWB) to submit a Solid Waste Management Unit (SWMU) Assessment Report (SAR) for Septic Tank TA-33-0375 and to reassess SWMU 33-004(e). DOE/LANS is requesting to be relieved from the requirement of submitting SAR for the septic tank and of reassessing SWMU 33-004(e), based upon existing and historical corrective actions associated with the septic tank and the SWMU.

ACTION requested of Laboratory Director or Designee:

Please review, approve, and sign.

PAD Endorsement

Name (*print*)	Signature	Date
Michael A. Lansing, PADOPS	na	

AD Endorsement

Name (*print*)	Signature	Date
Michael T. Brandt, ADESH	na	

Coordinated with

1. Name (*print*) Alison M. Dorries, ENV-DO	Signature for	Date 6-12-2015
2. Name (*print*) Anthony R. Grieggs, ENV-CP	Signature	Date 6/11/15
3. Name (*print*) Michael T. Saladen, ENV-CP	Signature	Date 6/11/15
4. Name (*print*) Robert S. Beers, ENV-CP	Signature	Date 6/11/15
5. Name (*print*) Jocelyn Y. Buckley, ENV-CP	Signature	Date 6-11-15

Please ensure appropriate PAD/AD/Division coordination and review prior to submittal to the Director's Office.

1824 Coordination sheet (continued)

ENV-DO-15-0150

Name *(print)*	Signature	Date
Luciana R. Vigil-Holterman, ENV-CP	Luciana Vigil-Holterman	6/11/2015
Name *(print)*	Signature	Date
Tammy A. Diaz, ENV-CP		6/11/15
Name *(print)*	Signature	Date
David J. McInroy , ER	**[See Attached Email]**	
Name *(print)*	Signature	Date
Kent C. Rich, ER	**[See Attached Email]**	
Name *(print)*	Signature	Date
Charles J. English, ER	**[See Attached Email]**	