Environmental Protection & Compliance Division
Environmental Compliance Programs
PO Box 1663, K491
Los Alamos, New Mexico 87545
(505) 667-2211

Environmental Management
Los Alamos Field Office, A316
1900 Diamond Drive, M984
Los Alamos, New Mexico, 87544
(505) 665-5820/Fax (505) 665-5903

Date: MAR 2 2 2018
Symbol: EPC-DO-18-131
LA-UR: 18-22088
Locates Action No.: N/A

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

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

RECEIVED
MAR 2 2 2018
NMED
Hazardous Waste
Bureau

Subject: Decision Tree Annual Report for 2017

Dear Ms. Hunter and Mr. Keiling:

On December 2, 2016, the New Mexico Environment Department (NMED) issued the "Los Alamos National Laboratory Drilling, Development, Rehabilitation, and Sampling Purge Water Decision Tree—Revised November 2016" (Decision Tree) to the U.S. Department of Energy (DOE) and Los Alamos National Security, LLC (LANS). The Decision Tree (Enclosure 1) provides the Laboratory with direction regarding the discharge of groundwater associated with the drilling, development, rehabilitation, and purging of monitoring wells. Under Decision Tree requirement "R1," the DOE/LANS are required to report to the NMED on an annual basis the following information:

1. Source and type of land applied water
2. Determination of fate based on pass/fail criteria for land application
3. Dates of disposal (land application)
4. Volumes and location of discharged water
5. Statement certifying that the water was disposed of in accordance with the Decision Tree
6. Identification of all wells whose land application status changed during the reporting period.

This letter and the following enclosures are the Decision Tree Annual Report for 2017. In accordance with the requirements of the Decision Tree, DOE/LANS discharged approximately 80,016 gallons of groundwater to the land surface during 2017. As of the time of this report, no wells that have previously met land application criteria experienced a change in status during this reporting period.

- Enclosure 2 contains the information required by nos. 1, 2, 3, and 4, as listed above.
- Enclosure 3 contains the certification statement, as required by no. 5 above.

Please contact Jocelyn Y. Buckley by telephone at (505) 665-5209 or by email at jbuckley@lanl.gov if you have questions regarding this report.

Sincerely,

Benjamin B. Roberts
Division Leader
Environmental Protection & Compliance Division
Los Alamos National Security LLC

Sincerely,

Arturo Duran
Permitting Manager
Environmental Management
Los Alamos Field Office

BBR/MTS/JYB:em

Enclosures: (1) Decision Tree for the Land Application of Groundwater
(2) 2017 Annual Report
(3) Certification Statement

Copy: Shelly Lemon, NMED/SWQB, Santa Fe, NM, (E-File)
Stephen M. Yanicak, NMED/DOE/OB, (E-File)
Steve Pullen, NMED/GWQB, Santa Fe, NM (E-File)
Douglas E. Hintze, EM-LA, (E-File)
David S. Rhodes, EM-LA, (E-File)
Paul B. Underwood, EM-LA, (E-File)
Annette E. Russell, EM-LA, (E-File)
Craig S. Leasure, PADOPS, (E-File)
William R. Mairson, ADESH, (E-File)
Randall Mark Erickson, ADEM, (E-File)
Enrique Torres, ADEM, (E-File)
Michael T. Saladen, EPC-CP, (E-File)
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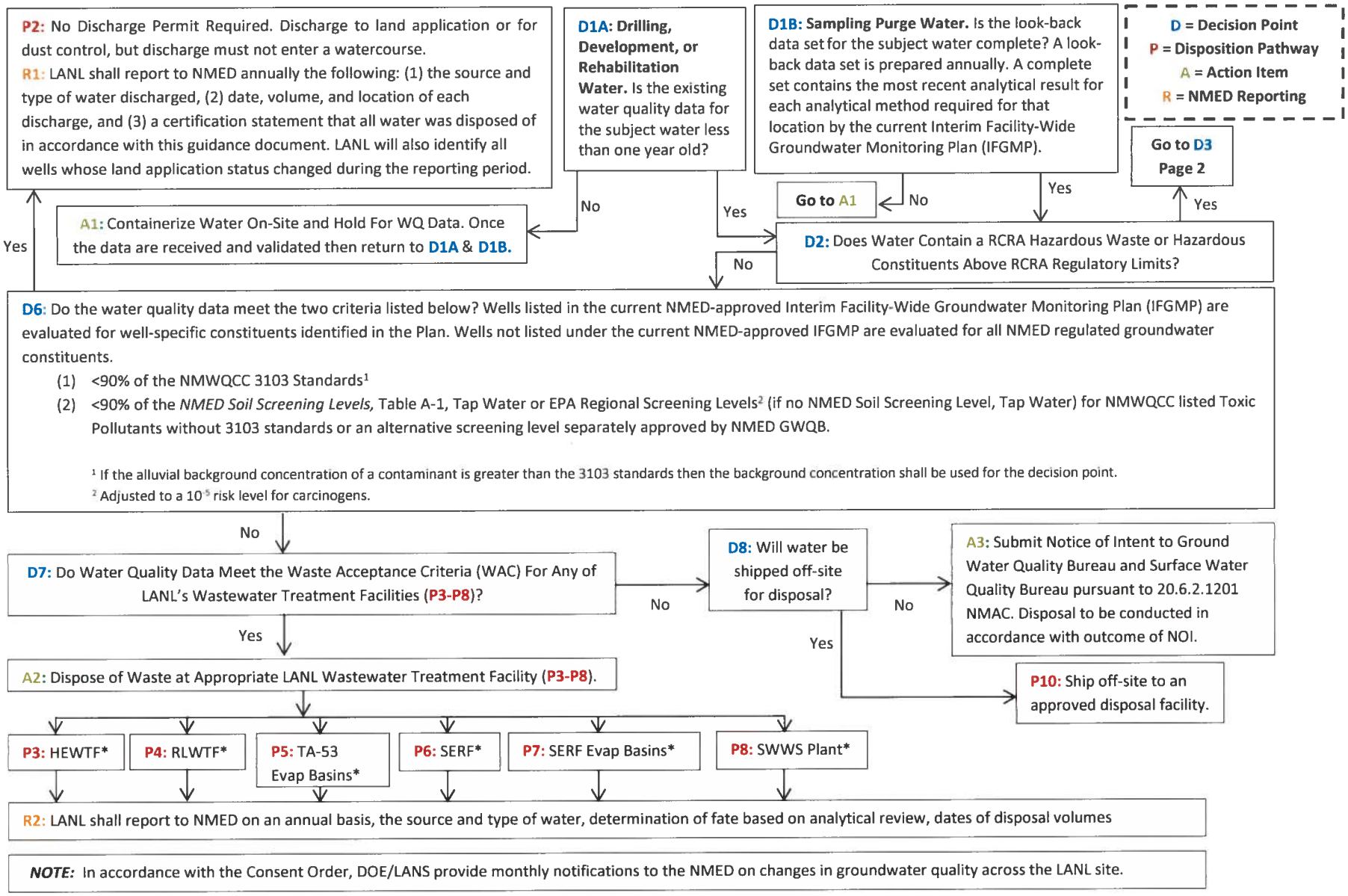
ENCLOSURE 1

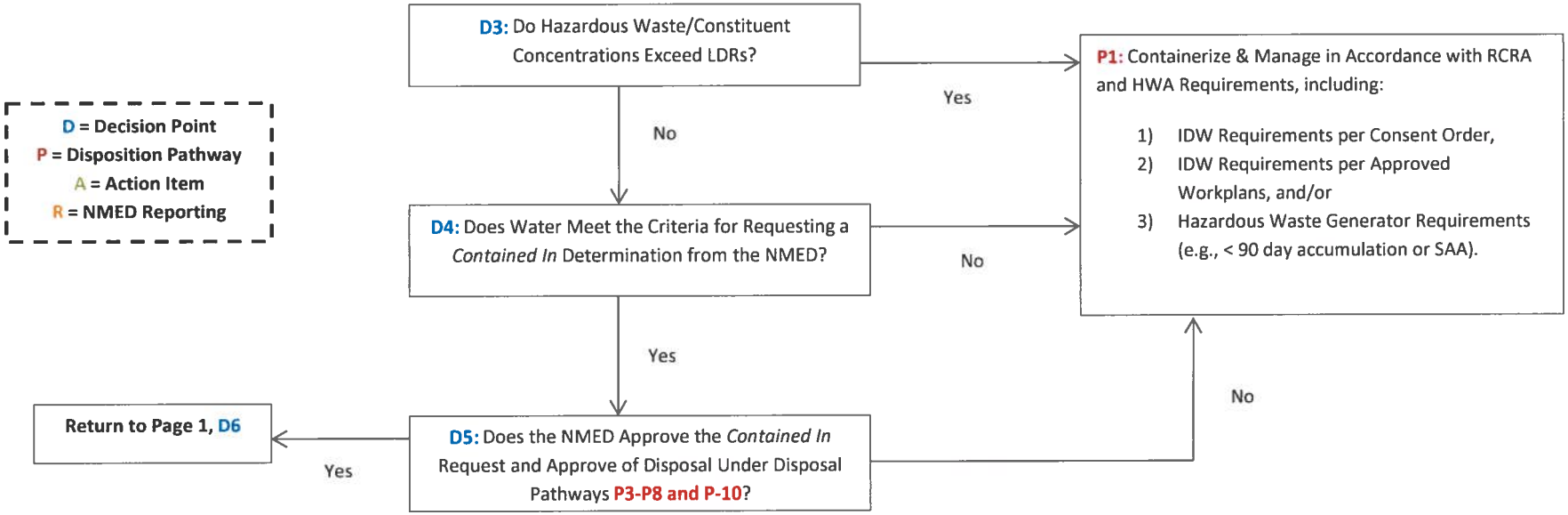
Decision Tree for the Land Application of Groundwater

EPC-DO-18-131

LA-UR-18-22088

Date: MAR 2 2 2018


P2: No Discharge Permit Required. Discharge to land application or for dust control, but discharge must not enter a watercourse.
R1: LANL shall report to NMED annually the following: (1) the source and type of water discharged, (2) date, volume, and location of each discharge, and (3) a certification statement that all water was disposed of in accordance with this guidance document. LANL will also identify all wells whose land application status changed during the reporting period.
D1A: Drilling, Development, or Rehabilitation Water. Is the existing water quality data for the subject water less than one year old?
D1B: Sampling Purge Water. Is the look-back data set for the subject water complete? A look-back data set is prepared annually. A complete set contains the most recent analytical result for each analytical method required for that location by the current Interim Facility-Wide Groundwater Monitoring Plan (IFGMP).
D = Decision Point
P = Disposition Pathway
A = Action Item
R = NMED Reporting
Go to D3 Page 2
Go to A1
No
Yes
A1: Containerize Water On-Site and Hold For WQ Data. Once the data are received and validated then return to D1A & D1B.
D2: Does Water Contain a RCRA Hazardous Waste or Hazardous Constituents Above RCRA Regulatory Limits?
D6: Do the water quality data meet the two criteria listed below? Wells listed in the current NMED-approved Interim Facility-Wide Groundwater Monitoring Plan (IFGMP) are evaluated for well-specific constituents identified in the Plan. Wells not listed under the current NMED-approved IFGMP are evaluated for all NMED regulated groundwater constituents.
(1) <90% of the NMWQCC 3103 Standards[1]
(2) <90% of the NMED Soil Screening Levels, Table A-1, Tap Water or EPA Regional Screening Levels[2] (if no NMED Soil Screening Level, Tap Water) for NMWQCC listed Toxic Pollutants without 3103 standards or an alternative screening level separately approved by NMED GWQB.
[1] If the alluvial background concentration of a contaminant is greater than the 3103 standards then the background concentration shall be used for the decision point.
[2] Adjusted to a 10-5 risk level for carcinogens.
D7: Do Water Quality Data Meet the Waste Acceptance Criteria (WAC) For Any of LANL's Wastewater Treatment Facilities (P3-P8)?
D8: Will water be shipped off-site for disposal?
A3: Submit Notice of Intent to Ground Water Quality Bureau and Surface Water Quality Bureau pursuant to 20.6.2.1201 NMAC. Disposal to be conducted in accordance with outcome of NOI.
P10: Ship off-site to an approved disposal facility.
A2: Dispose of Waste at Appropriate LANL Wastewater Treatment Facility (P3-P8).
P3: HEWTF*
P4: RLWTF*
P5: TA-53 Evap Basins*
P6: SERF*
P7: SERF Evap Basins*
P8: SWWS Plant*
R2: LANL shall report to NMED on an annual basis, the source and type of water, determination of fate based on analytical review, dates of disposal volumes
NOTE: In accordance with the Consent Order, DOE/LANS provide monthly notifications to the NMED on changes in groundwater quality across the LANL site.


D = Decision Point
P = Disposition Pathway
A = Action Item
R = NMED Reporting
D3: Do Hazardous Waste/Constituent Concentrations Exceed LDRs?
Yes
No
P1: Containerize & Manage in Accordance with RCRA and HWA Requirements, including:
1) IDW Requirements per Consent Order,
2) IDW Requirements per Approved Workplans, and/or
3) Hazardous Waste Generator Requirements (e.g., < 90 day accumulation or SAA).
D4: Does Water Meet the Criteria for Requesting a Contained In Determination from the NMED?
No
Yes
No
Return to Page 1, D6
Yes
D5: Does the NMED Approve the Contained In Request and Approve of Disposal Under Disposal Pathways P3-P8 and P-10?

ENCLOSURE 2

2017 Annual Report

EPC-DO-18-131

LA-UR-18-22088

Date: MAR 2 2 2018

Enclosure 2

Los Alamos National Laboratory Decision Tree for the Land Application of Groundwater -- Revised 12/02/2016 Annual Report 2017

Cnt	Well Name	Well Type	Watershed	Activity Type	Data Certification Date	Decision Point D6 Compliant (Y/N)	Method	Location	Land Application Date	Volume (gal)
1	R-67	Regional	Sandia	Sampling Purge Water	01/28/2016	Y	Sprinkler	Vicinity of Well	01/04/2017	792
2	R-60	Regional	Mortandad	Sampling Purge Water	02/25/2016	Y	Sprinkler	Vicinity of Well	01/04/2017	198
3	R-33	Regional	Mortandad	Sampling Purge Water	09/19/2016	Y	Sprinkler	Vicinity of Well	01/23/2017	477
4	R-1	Regional	Mortandad	Sampling Purge Water	04/25/2016	Y	Sprinkler	Vicinity of Well	01/23/2017	246
5	R-45	Regional	Mortandad	Sampling Purge Water	04/25/2016	Y	Sprinkler	Vicinity of Well	01/23/2017	585
6	R-13	Regional	Mortandad	Sampling Purge Water	02/25/2016	Y	Sprinkler	Vicinity of Well	01/26/2017	548
7	R-44	Regional	Mortandad	Sampling Purge Water	04/25/2016	Y	Sprinkler	Vicinity of Well	01/26/2017	512
8	R-53	Regional	Pajarito	Sampling Purge Water	01/13/2016	Y	Sprinkler	Vicinity of Well	01/31/2017	647
9	R-23i	Intermediate	Pajarito	Sampling Purge Water	01/13/2016	Y	Sprinkler	Vicinity of Well	01/31/2017	172
10	R-47	Regional	Canon de Valle	Sampling Purge Water	09/28/2016	Y	Sprinkler	Vicinity of Well	02/01/2017	252
11	R-46	Regional	Pajarito	Sampling Purge Water	02/25/2016	Y	Sprinkler	Vicinity of Well	02/01/2017	275
12	R-38	Regional	Mortandad	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	02/02/2017	165
13	R-3i	Intermediate	Pueblo	Sampling Purge Water	11/07/2016	Y	Sprinkler	Vicinity of Well	02/02/2017	28
14	R-21	Regional	Mortandad	Sampling Purge Water	01/12/2017	Y	Sprinkler	Vicinity of Well	02/02/2017	642
15	R-24	Regional	Pueblo	Sampling Purge Water	11/07/2016	Y	Sprinkler	Vicinity of Well	02/02/2017	435
16	R-41	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	02/02/2017	150
17	R-51	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	02/03/2017	230
18	R-37	Regional	Canada del Buey	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	02/03/2017	338
19	R-34	Regional	Mortandad	Sampling Purge Water	04/15/2016	Y	Sprinkler	Vicinity of Well	02/09/2017	764
20	R-10a	Regional	Sandia	Sampling Purge Water	04/15/2016	Y	Sprinkler	Vicinity of Well	02/09/2017	310
21	R-27	Regional	Water	Sampling Purge Water	07/01/2016	Y	Sprinkler	Vicinity of Well	02/10/2017	238
22	R-18	Regional	Pajarito	Sampling Purge Water	03/08/2016	Y	Sprinkler	Vicinity of Well	02/10/2017	398
23	CdV-37-1i	Intermediate	Water	Sampling Purge Water	07/01/2016	Y	Sprinkler	Vicinity of Well	02/10/2017	157
24	R-27i	Intermediate	Water	Sampling Purge Water	07/01/2016	Y	Sprinkler	Vicinity of Well	02/10/2017	57
25	R-63	Regional	Water	Sampling Purge Water	06/16/2016	Y	Sprinkler	Vicinity of Well	02/10/2017	405
26	SIMR-2	Regional	Mortandad	Sampling Purge Water	01/26/2017	Y	Sprinkler	Vicinity of Well	02/15/2017	241
27	R-43	Regional	Sandia	Sampling Purge Water	04/15/2016	Y	Sprinkler	Vicinity of Well	02/27/2017	124
28	R-36	Regional	Sandia	Sampling Purge Water	02/17/2017	Y	Sprinkler	Vicinity of Well	02/27/2017	356
29	TW-2ar	Intermediate	Pueblo	Sampling Purge Water	02/17/2017	Y	Sprinkler	Vicinity of Well	02/27/2017	59
30	R-53	Regional	Pajarito	Sampling Purge Water	01/20/2017	Y	Sprinkler	Vicinity of Well	02/28/2017	288
31	R-39	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	02/28/2017	185
32	R-32	Regional	Pajarito	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	02/28/2017	305
33	R-23	Regional	Pajarito	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	02/28/2017	332
34	R-52	Regional	Canada del Buey	Sampling Purge Water	01/20/2017	Y	Sprinkler	Vicinity of Well	02/28/2017	235
35	R-49	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	02/28/2017	274
36	R-20	Regional	Pajarito	Sampling Purge Water	02/21/2017	Y	Sprinkler	Vicinity of Well	03/01/2017	807
37	R-58	Regional	Water	Sampling Purge Water	03/11/2016	Y	Sprinkler	Vicinity of Well	03/01/2017	798
38	R-48	Regional	Canon de Valle	Sampling Purge Water	06/16/2016	Y	Sprinkler	Vicinity of Well	03/01/2017	666
39	POI-4	Intermediate	Pueblo	Sampling Purge Water	11/07/2016	Y	Sprinkler	Vicinity of Well	03/03/2017	9,655
40	R-29	Regional	Water	Sampling Purge Water	08/26/2013	Y	Water Truck	Dirt Roads	03/07/2017	4,000
41	R-29	Regional	Water	Sampling Purge Water	08/26/2013	Y	Water Truck	Dirt Roads	03/21/2017	4,000
42	R-29	Regional	Water	Sampling Purge Water	08/26/2013	Y	Water Truck	Dirt Roads	03/24/2017	1,000
43	R-56	Regional	Canada del Buey	Sampling Purge Water	01/30/2017	Y	Sprinkler	Vicinity of Well	04/11/2017	920
44	R-35a	Regional	Sandia	Sampling Purge Water	11/07/2016	Y	Sprinkler	Vicinity of Well	04/26/2017	779
45	R-35b	Regional	Sandia	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	04/26/2017	250
46	R-67	Regional	Sandia	Sampling Purge Water	02/22/2017	Y	Sprinkler	Vicinity of Well	04/26/2017	222
47	R-55	Regional	Canada del Buey	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	04/26/2017	382
48	R-21	Regional	Mortandad	Sampling Purge Water	01/12/2017	Y	Sprinkler	Vicinity of Well	04/26/2017	609
49	R-38	Regional	Mortandad	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	04/26/2017	171
50	R-37	Regional	Canada del Buey	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	04/26/2017	407
51	R-11	Regional	Sandia	Sampling Purge Water	07/15/2016	Y	Sprinkler	Vicinity of Well	04/27/2017	207
52	R-14	Regional	Mortandad	Sampling Purge Water	04/27/2017	Y	Sprinkler	Vicinity of Well	05/01/2017	244

Cnt	Well Name	Well Type	Watershed	Activity Type	Data Certification Date	Decision Point D6 Compliant (Y/N)	Method	Location	Land Application Date	Volume (gal)
53	R-50	Regional	Mortandad	Sampling Purge Water	02/22/2017	Y	Sprinkler	Vicinity of Well	05/01/2017	366
54	R-33	Regional	Mortandad	Sampling Purge Water	09/19/2016	Y	Sprinkler	Vicinity of Well	05/09/2017	450
55	R-10a	Regional	Sandia	Sampling Purge Water	05/04/2017	Y	Sprinkler	Vicinity of Well	05/16/2017	260
56	R-34	Regional	Mortandad	Sampling Purge Water	04/15/2016	Y	Sprinkler	Vicinity of Well	05/16/2017	375
57	R-45	Regional	Mortandad	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	05/17/2017	532
58	R-44	Regional	Mortandad	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	05/18/2017	717
59	R-18	Regional	Pajarito	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	05/23/2017	450
60	R-63	Regional	Water	Sampling Purge Water	06/16/2016	Y	Sprinkler	Vicinity of Well	05/23/2017	432
61	R-23	Regional	Pajarito	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	05/23/2017	200
62	R-48	Regional	Canon de Valle	Sampling Purge Water	06/16/2016	Y	Sprinkler	Vicinity of Well	05/23/2017	950
63	R-47	Regional	Canon de Valle	Sampling Purge Water	09/28/2016	Y	Sprinkler	Vicinity of Well	05/23/2017	246
64	R-30	Regional	Ancho	Sampling Purge Water	03/15/2017	Y	Sprinkler	Vicinity of Well	05/24/2017	221
65	R-29	Regional	Water	Sampling Purge Water	03/15/2017	Y	Sprinkler	Vicinity of Well	05/24/2017	373
66	R-58	Regional	Water	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	05/26/2017	249
67	R-39	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	05/26/2017	190
68	PCI-2	Intermediate	Pajarito	Sampling Purge Water	04/27/2017	Y	Sprinkler	Vicinity of Well	05/30/2017	78
69	R-40	Regional	Pajarito	Sampling Purge Water	04/27/2017	Y	Sprinkler	Vicinity of Well	05/30/2017	233
70	R-41	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	05/30/2017	161
71	LAOI-7	Intermediate	Los Alamos	Sampling Purge Water	11/07/2016	Y	Sprinkler	Vicinity of Well	05/30/2017	61
72	R-52	Regional	Canada del Buey	Sampling Purge Water	01/20/2017	Y	Sprinkler	Vicinity of Well	06/29/2017	429
73	R-49	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	06/29/2017	498
74	R-55	Regional	Canada del Buey	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	06/30/2017	645
75	R-6	Regional	Los Alamos	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	06/30/2017	341
76	R-66	Regional	Los Alamos	Sampling Purge Water	03/15/2017	Y	Sprinkler	Vicinity of Well	06/30/2017	245
77	R-64	Regional	Los Alamos	Sampling Purge Water	03/15/2017	Y	Sprinkler	Vicinity of Well	06/30/2017	244
78	R-53	Regional	Pajarito	Sampling Purge Water	01/20/2017	Y	Sprinkler	Vicinity of Well	06/30/2017	608
79	R-11	Regional	Sandia	Sampling Purge Water	07/15/2016	Y	Sprinkler	Vicinity of Well	07/05/2017	212
80	R-54	Regional	Pajarito	Sampling Purge Water	04/27/2017	Y	Sprinkler	Vicinity of Well	07/05/2017	247
81	R-36	Regional	Sandia	Sampling Purge Water	02/17/2017	Y	Sprinkler	Vicinity of Well	07/05/2017	193
82	R-35b	Regional	Sandia	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	07/05/2017	255
83	R-35a	Regional	Sandia	Sampling Purge Water	11/07/2016	Y	Sprinkler	Vicinity of Well	07/05/2017	803
84	R-20	Regional	Pajarito	Sampling Purge Water	02/21/2017	Y	Sprinkler	Vicinity of Well	07/05/2017	180
85	R-67	Regional	Sandia	Sampling Purge Water	02/22/2017	Y	Sprinkler	Vicinity of Well	07/05/2017	263
86	R-33	Regional	Mortandad	Sampling Purge Water	09/19/2016	Y	Sprinkler	Vicinity of Well	07/06/2017	483
87	R-45	Regional	Mortandad	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	07/06/2017	560
88	R-14	Regional	Mortandad	Sampling Purge Water	04/27/2017	Y	Sprinkler	Vicinity of Well	07/06/2017	230
89	R-51	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	07/06/2017	499
90	R-56	Regional	Canada del Buey	Sampling Purge Water	01/30/2017	Y	Sprinkler	Vicinity of Well	07/06/2017	568
91	R-44	Regional	Mortandad	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	07/06/2017	558
92	R-18	Regional	Pajarito	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	07/14/2017	418
93	R-46	Regional	Pajarito	Sampling Purge Water	04/27/2017	Y	Sprinkler	Vicinity of Well	07/14/2017	236
94	CdV-37-1i	Intermediate	Water	Sampling Purge Water	07/01/2016	Y	Sprinkler	Vicinity of Well	07/14/2017	159
95	R-58	Regional	Water	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	07/21/2017	357
96	R-53	Regional	Pajarito	Sampling Purge Water	01/20/2017	Y	Sprinkler	Vicinity of Well	08/17/2017	273
97	R-21	Regional	Mortandad	Sampling Purge Water	01/12/2017	Y	Sprinkler	Vicinity of Well	08/17/2017	602
98	R-38	Regional	Mortandad	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	08/17/2017	163
99	R-35b	Regional	Sandia	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	08/17/2017	247
100	R-36	Regional	Sandia	Sampling Purge Water	02/17/2017	Y	Sprinkler	Vicinity of Well	08/17/2017	190
101	R-39	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	08/22/2017	190
102	R-32	Regional	Pajarito	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	08/22/2017	312
103	R-52	Regional	Canada del Buey	Sampling Purge Water	01/20/2017	Y	Sprinkler	Vicinity of Well	08/22/2017	237
104	R-23	Regional	Pajarito	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	08/22/2017	256

Cnt	Well Name	Well Type	Watershed	Activity Type	Data Certification Date	Decision Point D6 Compliant (Y/N)	Method	Location	Land Application Date	Volume (gal)
105	R-37	Regional	Canada del Buey	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	08/22/2017	398
106	R-49	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	08/22/2017	271
107	R-51	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	08/23/2017	233
108	R-41	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	08/23/2017	154
109	R-55	Regional	Canada del Buey	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	08/23/2017	374
110	R-50	Regional	Mortandad	Sampling Purge Water	02/22/2017	Y	Sprinkler	Vicinity of Well	08/23/2017	355
111	R-67	Regional	Sandia	Sampling Purge Water	02/22/2017	Y	Water Truck	Vicinity of Well	08/23/2017	224
112	R-45	Regional	Mortandad	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	08/23/2017	557
113	R-44	Regional	Mortandad	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	10/02/2017	515
114	R-58	Regional	Water	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	10/02/2017	236
115	R-18	Regional	Pajarito	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	10/02/2017	447
116	R-35a	Regional	Sandia	Sampling Purge Water	11/07/2016	Y	Sprinkler	Vicinity of Well	10/02/2017	775
117	R-43	Regional	Sandia	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	10/03/2017	207
118	R-1	Regional	Mortandad	Sampling Purge Water	09/28/2017	Y	Sprinkler	Vicinity of Well	10/03/2017	263
119	R-16	Regional	Mortandad	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	10/03/2017	1,030
120	R-33	Regional	Mortandad	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	10/03/2017	463
121	R-63	Regional	Water	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	10/04/2017	752
122	R-48	Regional	Canon de Valle	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	10/05/2017	1,275
123	CdV-15-3	Regional	Water	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	10/05/2017	473
124	R-64	Regional	Los Alamos	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	10/12/2017	279
125	R-6	Regional	Los Alamos	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	10/12/2017	326
126	R-66	Regional	Los Alamos	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	10/12/2017	266
127	R-56	Regional	Canada del Buey	Sampling Purge Water	01/30/2017	Y	Sprinkler	Vicinity of Well	10/26/2017	300
128	R-44	Regional	Mortandad	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	11/02/2017	519
129	R-60	Regional	Mortandad	Sampling Purge Water	10/11/2017	Y	Sprinkler	Vicinity of Well	11/02/2017	202
130	R-45	Regional	Mortandad	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	11/02/2017	561
131	R-29	Regional	Water	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	11/07/2017	308
132	R-26	Regional	Water	Sampling Purge Water	10/12/2017	Y	Sprinkler	Vicinity of Well	11/07/2017	543
133	R-12	Regional	Sandia	Sampling Purge Water	10/18/2017	Y	Sprinkler	Vicinity of Well	11/07/2017	443
134	R-30	Regional	Ancho	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	11/07/2017	194
135	TA-53i	Intermediate	Los Alamos	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	11/07/2017	123
136	R-24	Regional	Pueblo	Sampling Purge Water	10/12/2017	Y	Sprinkler	Vicinity of Well	11/08/2017	390
137	R-47	Regional	Canon de Valle	Sampling Purge Water	10/12/2017	Y	Sprinkler	Vicinity of Well	11/09/2017	534
138	R-2	Regional	Pueblo	Sampling Purge Water	10/11/2017	Y	Sprinkler	Vicinity of Well	11/09/2017	145
139	R-17	Regional	Pajarito	Sampling Purge Water	10/12/2017	Y	Sprinkler	Vicinity of Well	11/09/2017	371
140	R-54	Regional	Pajarito	Sampling Purge Water	10/11/2017	Y	Sprinkler	Vicinity of Well	11/09/2017	638
141	R-32	Regional	Pajarito	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	11/14/2017	315
142	R-60	Regional	Mortandad	Sampling Purge Water	10/11/2017	Y	Sprinkler	Vicinity of Well	11/14/2017	192
143	R-20	Regional	Pajarito	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	11/14/2017	417
144	R-16r	Regional	Mortandad	Sampling Purge Water	10/11/2017	Y	Sprinkler	Vicinity of Well	11/14/2017	222
145	R-52	Regional	Canada del Buey	Sampling Purge Water	01/20/2017	Y	Sprinkler	Vicinity of Well	11/14/2017	483
146	R-49	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	11/14/2017	509
147	R-41	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	11/14/2017	170
148	R-39	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	11/14/2017	199
149	R-37	Regional	Canada del Buey	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	11/14/2017	230
150	R-1	Regional	Mortandad	Sampling Purge Water	09/28/2017	Y	Sprinkler	Vicinity of Well	11/15/2017	272
151	R-14	Regional	Mortandad	Sampling Purge Water	04/27/2017	Y	Sprinkler	Vicinity of Well	11/15/2017	271
152	R-46	Regional	Pajarito	Sampling Purge Water	04/27/2017	Y	Sprinkler	Vicinity of Well	11/15/2017	266
153	R-33	Regional	Mortandad	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	11/15/2017	461
154	R-10a	Regional	Sandia	Sampling Purge Water	05/04/2017	Y	Sprinkler	Vicinity of Well	11/16/2017	524
155	SIMR-2	Regional	Mortandad	Sampling Purge Water	01/26/2017	Y	Sprinkler	Vicinity of Well	11/17/2017	742
156	R-53	Regional	Pajarito	Sampling Purge Water	01/20/2017	Y	Sprinkler	Vicinity of Well	11/27/2017	643

Cnt	Well Name	Well Type	Watershed	Activity Type	Data Certification Date	Decision Point D6 Compliant (Y/N)	Method	Location	Land Application Date	Volume (gal)
157	R-51	Regional	Pajarito	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	11/27/2017	573
158	R-55	Regional	Canada del Buey	Sampling Purge Water	01/17/2017	Y	Sprinkler	Vicinity of Well	11/28/2017	704
159	R-35b	Regional	Sandia	Sampling Purge Water	03/03/2017	Y	Sprinkler	Vicinity of Well	11/28/2017	268
160	R-36	Regional	Sandia	Sampling Purge Water	02/17/2017	Y	Sprinkler	Vicinity of Well	11/28/2017	178
161	R-38	Regional	Mortandad	Sampling Purge Water	01/10/2017	Y	Sprinkler	Vicinity of Well	11/28/2017	180
162	R-43	Regional	Sandia	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	11/28/2017	138
163	LADP-3	Intermediate	Los Alamos	Sampling Purge Water	09/29/2017	Y	Sprinkler	Vicinity of Well	11/30/2017	5
164	R-21	Regional	Mortandad	Sampling Purge Water	01/12/2017	Y	Sprinkler	Vicinity of Well	11/30/2017	664
165	R-50	Regional	Mortandad	Sampling Purge Water	02/22/2017	Y	Sprinkler	Vicinity of Well	11/30/2017	839
166	R-56	Regional	Canada del Buey	Sampling Purge Water	01/30/2017	Y	Sprinkler	Vicinity of Well	12/20/2017	625
									2017 Total:	**80,016**

ENCLOSURE 3

Certification Statement

EPC-DO-18-131

LA-UR-18-22088

Date: MAR 2 2 2018

Enclosure 3

CERTIFICATION STATEMENT

Los Alamos National Laboratory Drilling, Development, Rehabilitation, and Sampling Purge Water Decision Tree—Revised 12/02/2016

Document Title and Date:
DECISION TREE ANNUAL REPORT FOR 2017 **March, 2018**

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	Title:	Organization:	Date signed:
Enrique Torres	Deputy Associate Director	ADEM	3/21/18

Name of certifying official	Title:	Organization:	Date signed:
Taunia S. Van Valkenburg	Group Leader	EPC-CP	3/20/18