



**N3B-Los Alamos**  
600 6th Street  
Los Alamos, New Mexico 87544  
(505) 661-5918

## GROUND WATER

**MAR 22 2019**

## BUREAU



**Environmental Management**  
Los Alamos Field Office  
P.O. Box 1663, MS M984  
Los Alamos, New Mexico 87545  
(505) 665-5658/FAX (505) 606-2132

*Date:* **MAR 22 2019**  
*Refer To:* N3B-19-0080

Michelle Hunter, Chief  
Ground Water Quality Bureau  
New Mexico Environment Department  
1190 S. St. Francis Drive  
Santa Fe, NM 87505

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

**Subject: Land Application of Groundwater Decision Tree Annual Report for 2018**

Dear Ms. Hunter and Mr. Kieling:

On December 2, 2016, the New Mexico Environment Department (NMED) approved the revised "Decision Tree for the Land Application of Groundwater," dated November 2016 (hereafter, Decision Tree). The Decision Tree provides direction regarding the discharge of groundwater associated with the drilling, development, rehabilitation, and purging of monitoring wells. Enclosed is the U.S. Department of Energy (DOE) Environmental Management Los Alamos Field Office (EM-LA) and Newport News Nuclear BWXT-Los Alamos, LLC (N3B) submittal of the annual report required by Decision Tree reporting point R1. Under R1, DOE/N3B are required to report annually by March 31 to NMED the following information:

1. Source and type of water
2. Determination of fate based on pass/fail criteria (for decision point D6) for land application
3. Date, volume, and location of each discharge (land application)
4. Statement certifying that the water was disposed of in accordance with the Decision Tree
5. Identification of all wells whose land application status changed during the reporting period

The enclosed annual report, including certification statement, provides the information required above.

In accordance with the requirements of the Decision Tree, DOE/N3B discharged approximately 47,661 gal. of groundwater to the land surface during 2018. During 2018, no wells that have previously met land-application criteria had a change in status.



**N3B-Los Alamos**  
600 6th Street  
Los Alamos, New Mexico 87544  
(505) 661-5918



**Environmental Management**  
Los Alamos Field Office  
P.O. Box 1663, MS M984  
Los Alamos, New Mexico 87545  
(505) 665-5658/FAX (505) 606-2132

*Date:* **MAR 22 2019**  
*Refer To:* N3B-19-0080

Michelle Hunter, Chief  
Ground Water Quality Bureau  
New Mexico Environment Department  
1190 S. St. Francis Drive  
Santa Fe, NM 87505

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

**Subject: Land Application of Groundwater Decision Tree Annual Report for 2018**

Dear Ms. Hunter and Mr. Kieling:

On December 2, 2016, the New Mexico Environment Department (NMED) approved the revised "Decision Tree for the Land Application of Groundwater," dated November 2016 (hereafter, Decision Tree). The Decision Tree provides direction regarding the discharge of groundwater associated with the drilling, development, rehabilitation, and purging of monitoring wells. Enclosed is the U.S. Department of Energy (DOE) Environmental Management Los Alamos Field Office (EM-LA) and Newport News Nuclear BWXT-Los Alamos, LLC (N3B) submittal of the annual report required by Decision Tree reporting point R1. Under R1, DOE/N3B are required to report annually by March 31 to NMED the following information:

1. Source and type of water
2. Determination of fate based on pass/fail criteria (for decision point D6) for land application
3. Date, volume, and location of each discharge (land application)
4. Statement certifying that the water was disposed of in accordance with the Decision Tree
5. Identification of all wells whose land application status changed during the reporting period

The enclosed annual report, including certification statement, provides the information required above.

In accordance with the requirements of the Decision Tree, DOE/N3B discharged approximately 47,661 gal. of groundwater to the land surface during 2018. During 2018, no wells that have previously met land-application criteria had a change in status.

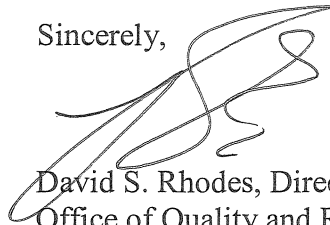
If you have questions, please contact Christian Maupin at (505) 695-4281 (christian.maupin@em-la.doe.gov) or Cheryl Rodriguez at (505) 665-5330 (cheryl.rodriguez@em.doe.gov).

Sincerely,



Frazer Lockhart  
Program Manager  
Regulatory and Stakeholder Interface  
N3B-Los Alamos

Sincerely,



David S. Rhodes, Director <sup>FOR</sup>  
Office of Quality and Regulatory Compliance  
Environmental Management  
Los Alamos Field Office

Enclosure(s): Land Application of Groundwater Decision Tree Annual Report for 2018 (including certification statement) (EM2019-0084)

Cy: (letter and enclosure[s] emailed)  
Raymond Martinez, San Ildefonso Pueblo, NM  
Dino Chavarria, Santa Clara Pueblo, NM  
Shelly Lemon, NMED-SWQB  
Steve Pullen, NMED-GWQB  
Andrew Romero, NMED-GWQB  
Steve Yanicak, NMED-DOE-OB  
Arturo Duran, EM-LA  
Douglas Hintze, EM-LA  
Tom McCrory, EM-LA  
David Nickless, EM-LA  
David Rhodes, EM-LA  
Cheryl Rodriguez, EM-LA  
Hai Shen, EM-LA  
Ben Underwood, EM-LA  
Bob Beers, LANL  
Emily Day, N3B  
Mark Everett, N3B  
Gerald Fordham, N3B  
Lori Huntoon, N3B  
Frank Johns, N3B  
Danny Katzman, N3B  
Joseph Legare, N3B  
Frazer Lockhart, N3B  
Christian Maupin, N3B  
Glenn Morgan, N3B  
Bruce Robinson, N3B  
Steve White, N3B  
Brinson Willis, N3B  
Steve Veenis, N3B

emla.docs@em.doe.gov  
N3B Records  
Public Reading Room (EPRR)  
PRS Website



CERTIFICATION

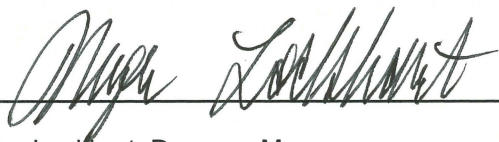
NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC

Land Application of Groundwater Decision Tree Annual Report for 2018

CERTIFICATION STATEMENT OF AUTHORIZATION

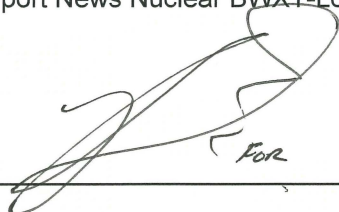
---

"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."



Frazer Lockhart, Program Manager  
Regulatory and Stakeholder Interface  
Newport News Nuclear BWXT-Los Alamos, LLC

3/19/19  
Date



FOR

David S. Rhodes, Director  
Office of Quality and Regulatory Compliance  
Environmental Management  
Los Alamos Field Office

3/22/19  
Date



### Land Application of Groundwater Decision Tree Annual Report for 2018

Item	Well Name	Well Type	Watershed	Description	Volume (gal.)	Generation Date	Decision Point D6 Compliant (Y/N)	Method	Location	Land Application Date
1	R-50 S2	Regional	Mortandad	Purge water	375.48	12/14/2017	Y	Sprinkler	Vicinity of Well	2/27/2018
2	R-50 S2	Regional	Mortandad	Purge water	367.2	1/16/2018	Y	Sprinkler	Vicinity of Well	1/16/2018
3	R-44 S1	Regional	Mortandad	Purge water	206.72	1/16/2018	Y	Sprinkler	Vicinity of Well	1/22/2018
4	R-44 S1	Regional	Mortandad	Purge water	182.32	12/18/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
5	R-44 S1	Regional	Mortandad	Purge water	241.24	11/20/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
6	R-44 S2	Regional	Mortandad	Purge water	296.37	1/16/2018	Y	Sprinkler	Vicinity of Well	1/22/2018
7	R-44 S2	Regional	Mortandad	Purge water	246.42	12/18/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
8	R-44 S2	Regional	Mortandad	Purge water	303.6	11/20/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
9	R-45 S1	Regional	Mortandad	Purge water	239.27	1/17/2018	Y	Sprinkler	Vicinity of Well	1/22/2018
10	R-45 S1	Regional	Mortandad	Purge water	221.34	12/19/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
11	R-45 S1	Regional	Mortandad	Purge water	232.98	11/20/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
12	R-45 S2	Regional	Mortandad	Purge water	346.8	1/17/2018	Y	Sprinkler	Vicinity of Well	1/22/2018
13	R-45 S2	Regional	Mortandad	Purge water	346.56	12/19/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
14	R-45 S2	Regional	Mortandad	Purge water	353.78	11/20/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
15	R-13	Regional	Mortandad	Purge water	557.56	1/19/2018	Y	Sprinkler	Vicinity of Well	1/22/2018
16	R-13	Regional	Mortandad	Purge water	566.8	2/10/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
17	R-13	Regional	Mortandad	Purge water	555	5/16/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
18	R-13	Regional	Mortandad	Purge water	566	8/3/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
19	R-13	Regional	Mortandad	Purge water	572.23	11/18/2017	Y	Sprinkler	Vicinity of Well	1/22/2018
20	SIMR-2	Regional	Mortandad	Purge water	263	1/18/2018	Y	Sprinkler	Transferred to R-13	1/18/2018
21	SIMR-2	Regional	Mortandad	Purge water	223.26	12/14/2017	Y	Sprinkler	Transferred to R-13	1/18/2018
22	R-57 S1	Regional	Pajarito	Purge water	259.92	1/9/2017	Y	Sprinkler	Vicinity of Well	1/23/2018
23	R-57 S1	Regional	Pajarito	Purge water	267.14	7/11/2017	Y	Sprinkler	Vicinity of Well	1/23/2018
24	R-57 S1	Regional	Pajarito	Purge water	259.92	4/4/2017	Y	Sprinkler	Vicinity of Well	1/23/2018
25	R-57 S1	Regional	Pajarito	Purge water	288.6	10/20/2017	Y	Sprinkler	Vicinity of Well	1/23/2018
26	R-57 S2	Regional	Pajarito	Purge water	229.9	10/20/2017	Y	Sprinkler	Vicinity of Well	1/23/2018

**Land Application of Groundwater Decision Tree Annual Report for 2018**

Item	Well Name	Well Type	Watershed	Description	Volume (gal.)	Generation Date	Decision Point D6 Compliant (Y/N)	Method	Location	Land Application Date
27	R-57 S2	Regional	Pajarito	Purge water	198.93	4/4/2017	Y	Sprinkler	Vicinity of Well	1/23/2018
28	R-37 S1	Regional	Mortandad	Purge water	164.9	10/25/2017	Y	Sprinkler	Vicinity of Well	1/23/2018
29	R-40 S2	Regional	Pajarito	Purge water	177.24	11/2/2017	Y	Sprinkler	Vicinity of Well	1/23/2018
30	R-58	Regional	Water/CdV <sup>a</sup>	Purge water	243.04	12/6/2017	Y	Sprinkler	Vicinity of Well	1/24/2018
31	R-63	Regional	Water/CdV	Purge water	555	12/5/2017	Y	Sprinkler	Vicinity of Well	1/24/2018
32	R-48	Regional	Water/CdV	Purge water	660	12/6/2017	Y	Sprinkler	Vicinity of Well	1/24/2018
33	CdV-37-1(i)	Intermediate	Water/CdV	Purge water	142.5	9/8/2017	Y	Sprinkler	Vicinity of Well	1/26/2018
34	R-11	Regional	Sandia	Purge water	161.7	8/1/2017	Y	Sprinkler	Vicinity of Well	1/26/2018
35	R-11	Regional	Sandia	Purge water	201.96	11/8/2017	Y	Sprinkler	Vicinity of Well	1/26/2018
36	R-11	Regional	Sandia	Purge water	203.94	1/10/2018	Y	Sprinkler	Vicinity of Well	1/26/2018
37	LAOI-3.2a	Intermediate	LA <sup>b</sup> /Pueblo	Purge water	23.88	9/21/2017	Y	Sprinkler	Vicinity of Well	1/25/2018
38	R-3	Regional	LA/Pueblo	Purge water	1137.66	6/27/2017	Y	Sprinkler	Vicinity of Well	1/25/2018
39	R-9	Regional	LA/Pueblo	Purge water	250	9/26/2017	Y	Sprinkler	Vicinity of Well	1/25/2018
40	R-18	Regional	Pajarito	Purge water	366.3	12/15/2017	Y	Sprinkler	Vicinity of Well	1/31/2018
41	R-35a	Regional	Sandia	Purge water	750	1/10/2018	Y	Sprinkler	Vicinity of Well	1/31/2018
42	R-35a	Regional	Sandia	Purge water	799.69	11/6/2017	Y	Sprinkler	Vicinity of Well	1/31/2018
43	R-47	Regional	Water/CdV	Purge water	237.9	12/11/2017	Y	Sprinkler	Vicinity of Well	1/31/2018
44	R-3i	Intermediate	La/Pueblo	Purge water	26.24	6/27/2017	Y	Sprinkler	Vicinity of Well	2/13/2018
45	LAOI(a)-1.1	Intermediate	LA/Pueblo	Purge water	26.88	9/21/2017	Y	Sprinkler	Vicinity of Well	2/13/2018
46	LAO-3a	Alluvial	LA/Pueblo	Purge water	2.15	6/22/2017	Y	Direct	Vicinity of Well	2/13/2018
47	POI-4	Intermediate	LA/Pueblo	Purge water	30.6	6/19/2017	Y	Sprinkler	Vicinity of Well	2/13/2018
48	SIMR-2	Regional	Mortandad	Purge water	234.24	2/15/2018	Y	Sprinkler	Transferred to R-13	2/15/2018
49	R-33 S1	Regional	Mortandad	Purge water	349.44	1/23/2018	Y	Sprinkler	Vicinity of Well	2/27/2018
50	R-33 S2	Regional	Mortandad	Purge water	192.06	1/24/2018	Y	Sprinkler	Vicinity of Well	2/27/2018
51	R-43 S2	Regional	Sandia	Purge water	125.28	1/24/2018	Y	Sprinkler	Vicinity of Well	2/26/2018
52	R-44 S1	Regional	Mortandad	Purge water	226.1	2/14/2018	Y	Sprinkler	Vicinity of Well	2/27/2018



**Land Application of Groundwater Decision Tree Annual Report for 2018**

Item	Well Name	Well Type	Watershed	Description	Volume (gal.)	Generation Date	Decision Point D6 Compliant (Y/N)	Method	Location	Land Application Date
53	R-44 S2	Regional	Mortandad	Purge water	290.46	2/14/2018	Y	Sprinkler	Vicinity of Well	2/27/2018
54	R-45 S2	Regional	Mortandad	Purge water	342.02	2/14/2018	Y	Sprinkler	Vicinity of Well	2/27/2018
55	R-47	Regional	Water/CdV	Purge water	276.5	2/13/2018	Y	Sprinkler	Vicinity of Well	3/8/2018
56	R-26 S1	Intermediate	Water/CdV	Purge water	296	2/21/2018	Y	Sprinkler	Vicinity of Well	3/6/2018
57	CdV-R-15-3 S4	Regional	Water/CdV	Purge water	250	2/22/2018	Y	Sprinkler	Vicinity of Well	3/6/2018
58	SIMR-2	Regional	Mortandad	Purge water	240	3/15/2018	Y	Sprinkler	Transferred to R-13	3/15/2018
59	R-45 S2	Regional	Mortandad	Purge water	349.47	3/15/2018	Y	Sprinkler	Vicinity of Well	3/21/2018
60	R-50 S2	Regional	Mortandad	Purge water	387.5	2/20/2018	Y	Sprinkler	Vicinity of Well	3/21/2018
61	R-50 S2	Regional	Mortandad	Purge water	358.4	3/20/2018	Y	Sprinkler	Vicinity of Well	3/21/2018
62	R-10a	Regional	Sandia	Purge water	306.24	11/16/2017	Y	Sprinkler	Vicinity of Well	3/22/2018
63	R-34	Regional	Mortandad	Purge water	297.2	5/12/2017	Y	Sprinkler	Vicinity of Well	3/22/2018
64	R-34	Regional	Mortandad	Purge water	62.2	5/12/2017	Y	Sprinkler	Vicinity of Well	3/22/2018
65	R-34	Regional	Mortandad	Purge water	509.76	8/8/2017	Y	Sprinkler	Vicinity of Well	3/22/2018
66	R-34	Regional	Mortandad	Purge water	357.5	11/15/2017	Y	Sprinkler	Vicinity of Well	3/22/2018
67	LLAO-4	Alluvial	LA/Pueblo	Purge water	7.8	12/18/2017	Y	Direct	Vicinity of Well	3/22/2018
68	LLAO-4	Alluvial	LA/Pueblo	Purge water	12	6/21/2017	Y	Direct	Vicinity of Well	3/22/2018
69	R-44 S1	Regional	Mortandad	Purge water	224.4	3/12/2018	Y	Sprinkler	Vicinity of Well	3/21/2018
70	R-44 S2	Regional	Mortandad	Purge water	303.03	3/13/2018	Y	Sprinkler	Vicinity of Well	3/21/2018
71	R-67	Regional	Sandia	Purge water	221.2	1/22/2018	Y	Sprinkler	Vicinity of Well	3/26/2018
72	R-67	Regional	Sandia	Purge water	236	11/10/2017	Y	Sprinkler	Vicinity of Well	3/26/2018
73	R-35b	Regional	Sandia	Purge water	261.66	1/9/2018	Y	Sprinkler	Vicinity of Well	3/26/2018
74	R-36	Regional	Sandia	Purge water	187.55	1/9/2018	Y	Sprinkler	Vicinity of Well	3/26/2018
75	R-23i S1	Intermediate	Pajarito	Purge water	29.7	10/24/2017	Y	Sprinkler	Vicinity of Well	4/3/2018
76	R-23i S2	Intermediate	Pajarito	Purge water	127.48	10/24/2017	Y	Sprinkler	Vicinity of Well	4/3/2018
77	R-23i S3	Intermediate	Pajarito	Purge water	162.61	10/19/2017	Y	Sprinkler	Vicinity of Well	4/3/2018
78	PCI-2	Intermediate	Pajarito	Purge water	74.5	11/1/2017	Y	Sprinkler	Vicinity of Well	4/3/2018

**Land Application of Groundwater Decision Tree Annual Report for 2018**

Item	Well Name	Well Type	Watershed	Description	Volume (gal.)	Generation Date	Decision Point D6 Compliant (Y/N)	Method	Location	Land Application Date
79	LAOI-7	Intermediate	LA/Pueblo	Purge water	69.08	9/26/2017	Y	Sprinkler	Vicinity of Well	4/3/2018
80	R-23	Regional	Pajarito	Purge water	311.08	10/25/2017	Y	Sprinkler	Vicinity of Well	4/3/2018
81	R-18	Regional	Pajarito	Purge water	404.24	2/13/2018	Y	Sprinkler	Vicinity of Well	4/5/2018
82	R-48	Regional	Water/CdV	Purge water	685.44	2/7/2018	Y	Sprinkler	Vicinity of Well	4/5/2018
83	R-58	Regional	Water/CdV	Purge water	235.4	2/7/2018	Y	Sprinkler	Vicinity of Well	4/5/2018
84	R-29	Regional	Ancho	Purge water	330	3/6/2018	Y	Sprinkler	Vicinity of Well	4/5/2018
85	R-30	Regional	Ancho	Purge water	228.9	3/7/2018	Y	Sprinkler	Vicinity of Well	4/5/2018
86	R-49 S1	Regional	Pajarito	Purge water	275.4	4/5/2018	Y	Sprinkler	Vicinity of Well	4/10/2018
87	R-49 S2	Regional	Pajarito	Purge water	235.6	4/5/2017	Y	Sprinkler	Vicinity of Well	4/10/2018
88	R-63	Regional	Water/CdV	Purge water	442.68	2/7/2018	Y	Sprinkler	Vicinity of Well	4/10/2018
89	R-55 S1	Regional	Mortandad	Purge water	391.02	4/4/2018	Y	Sprinkler	Vicinity of Well	4/10/2018
90	R-55 S2	Regional	Mortandad	Purge water	272.44	4/4/2018	Y	Sprinkler	Vicinity of Well	4/10/2018
91	R-37 S1	Regional	Mortandad	Purge water	163.17	4/3/2018	Y	Sprinkler	Vicinity of Well	4/10/2018
92	CdV-37-1(i)	Intermediate	Water/CdV	Purge water	234.24	2/9/2018	Y	Sprinkler	Vicinity of Well	4/6/2018
93	R-27i	Intermediate	Water	Purge water	53.01	3/9/2018	Y	Sprinkler	Vicinity of Well	4/6/2018
94	R-27i	Intermediate	Water	Purge water	52	3/24/2017	Y	Sprinkler	Vicinity of Well	4/6/2018
95	R-27	Regional	Water	Purge water	238.98	3/9/2018	Y	Sprinkler	Vicinity of Well	4/6/2018
96	R-27	Regional	Water	Purge water	211.2	3/24/2017	Y	Sprinkler	Vicinity of Well	4/6/2018
97	SIMR-2	Regional	Mortandad	Purge water	254.6	4/19/2018	Y	Sprinkler	Transferred to R-13	4/19/2018
98	R-52 S1	Regional	Pajarito	Purge water	260.82	4/4/2018	Y	Sprinkler	Vicinity of Well	4/19/2018
99	R-53 S1	Regional	Pajarito	Purge water	276.48	4/12/2018	Y	Sprinkler	Vicinity of Well	4/18/2018
100	R-53 S2	Regional	Pajarito	Purge water	352	4/12/2018	Y	Sprinkler	Vicinity of Well	4/18/2018
101	R-40 S1	Regional	Pajarito	Purge water	39.76	4/12/2018	Y	Sprinkler	Vicinity of Well	4/18/2018
102	R-40 S2	Regional	Pajarito	Purge water	164.78	4/12/2018	Y	Sprinkler	Vicinity of Well	4/18/2018
103	R-38	Regional	Mortandad	Purge water	179.34	4/4/2018	Y	Sprinkler	Vicinity of Well	4/18/2018
104	R-51 S1	Regional	Pajarito	Purge water	243.2	4/5/2018	Y	Sprinkler	Vicinity of Well	4/18/2018

**Land Application of Groundwater Decision Tree Annual Report for 2018**

Item	Well Name	Well Type	Watershed	Description	Volume (gal.)	Generation Date	Decision Point D6 Compliant (Y/N)	Method	Location	Land Application Date
105	R-51 S2	Regional	Pajarito	Purge water	364.8	4/5/2018	Y	Sprinkler	Vicinity of Well	4/18/2018
106	R-23	Regional	Pajarito	Purge water	244.42	4/3/2018	Y	Sprinkler	Vicinity of Well	4/16/2018
107	R-57 S1	Regional	Pajarito	Purge water	281.2	4/6/2018	Y	Sprinkler	Vicinity of Well	4/16/2018
108	R-57 S2	Regional	Pajarito	Purge water	218	4/6/2018	Y	Sprinkler	Vicinity of Well	4/16/2018
109	R-39	Regional	Pajarito	Purge water	204.16	4/3/2018	Y	Sprinkler	Vicinity of Well	4/16/2018
110	R-23i S1	Intermediate	Pajarito	Purge water	25.62	4/10/2018	Y	Sprinkler	Vicinity of Well	4/16/2018
111	R-23i S2	Intermediate	Pajarito	Purge water	116.5	4/10/2018	Y	Sprinkler	Vicinity of Well	4/16/2018
112	R-23i S3	Intermediate	Pajarito	Purge water	162.18	4/11/2018	Y	Sprinkler	Vicinity of Well	4/16/2018
113	R-41 S2	Regional	Pajarito	Purge water	152.82	4/4/2018	Y	Sprinkler	Vicinity of Well	4/16/2018
114	R-20 S2	Regional	Pajarito	Purge water	181.93	4/9/2018	Y	Sprinkler	Vicinity of Well	4/25/2018
115	R-32 S1	Regional	Pajarito	Purge water	314.4	4/11/2018	Y	Sprinkler	Vicinity of Well	4/25/2018
116	R-50 S2	Regional	Mortandad	Purge water	370.83	4/16/2018	Y	Sprinkler	Vicinity of Well	4/25/2018
117	R-45 S2	Regional	Mortandad	Purge water	341.44	4/17/2018	Y	Sprinkler	Vicinity of Well	4/24/2018
118	R-44 S1	Regional	Mortandad	Purge water	247.76	4/17/2018	Y	Sprinkler	Vicinity of Well	4/24/2018
119	R-44 S2	Regional	Mortandad	Purge water	303.49	4/17/2018	Y	Sprinkler	Vicinity of Well	4/24/2018
120	R-37 S2	Regional	Mortandad	Purge water	289.52	4/10/2018	Y	Sprinkler	Vicinity of Well	4/24/2018
121	R-36	Regional	Sandia	Purge water	198.93	5/11/2018	Y	Sprinkler	Vicinity of Well	7/11/2018
122	R-11	Regional	Sandia	Purge water	222.75	5/18/2018	Y	Sprinkler	Vicinity of Well	7/11/2018
123	R-33 S1	Regional	Mortandad	Purge water	293.4	5/9/2018	Y	Sprinkler	Vicinity of Well	7/10/2018
124	R-33 S2	Regional	Mortandad	Purge water	194.97	5/9/2018	Y	Sprinkler	Vicinity of Well	7/10/2018
125	R-35a	Regional	Sandia	Purge water	793.56	5/11/2018	Y	Sprinkler	Vicinity of Well	7/12/2018
126	R-35b	Regional	Sandia	Purge water	262.92	5/11/2018	Y	Sprinkler	Vicinity of Well	7/12/2018
127	R-13	Regional	Mortandad	Purge water	550	5/14/2018	Y	Sprinkler	Vicinity of Well	7/12/2018
128	R-13	Regional	Mortandad	Purge water	39.36	5/14/2018	Y	Sprinkler	Vicinity of Well	7/12/2018
129	R-15	Regional	Mortandad	Purge water	300.07	5/14/2018	Y	Sprinkler	Vicinity of Well	7/12/2018
130	R-50 S2	Regional	Mortandad	Purge water	380.7	5/15/2018	Y	Sprinkler	Vicinity of Well	7/13/2018

**Land Application of Groundwater Decision Tree Annual Report for 2018**

Item	Well Name	Well Type	Watershed	Description	Volume (gal.)	Generation Date	Decision Point D6 Compliant (Y/N)	Method	Location	Land Application Date
131	R-44 S1	Regional	Mortandad	Purge water	242.55	5/16/20158	Y	Sprinkler	Vicinity of Well	7/13/2018
132	R-44 S2	Regional	Mortandad	Purge water	296.37	5/16/2018	Y	Sprinkler	Vicinity of Well	7/13/2018
133	R-45 S2	Regional	Mortandad	Purge water	345.51	5/16/2018	Y	Sprinkler	Vicinity of Well	7/17/2018
134	R-43 S2	Regional	Sandia	Purge water	137.61	5/17/2018	Y	Sprinkler	Vicinity of Well	7/17/2018
135	SIMR-2	Regional	Mortandad	Purge water	251.6	5/15/2018	Y	Sprinkler	Transferred to R-13	7/27/2018
136	PCI-2	Intermediate	Pajarito	Purge water	74.4	4/17/2018	Y	Sprinkler	Vicinity of Well	9/5/2018
137	R-3	Regional	LA/Pueblo	Purge water	1188	6/21/2018	Y	Sprinkler	Vicinity of Well	8/31/2018
138	R-47	Regional	Water/CdV	Purge water	230.1	6/6/2018	Y	Sprinkler	Vicinity of Well	8/31/2018
139	R-63	Regional	Water/CdV	Purge water	409.36	6/4/2018	Y	Sprinkler	Vicinity of Well	8/31/2018
140	R-1	Regional	Mortandad	Purge water	267.32	5/10/2018	Y	Sprinkler	Vicinity of Well	8/31/2018
141	LAO-3a	Alluvial	Los Alamos	Purge water	1.9	6/18/2018	Y	Direct	Vicinity of Well	8/31/2018
142	16-26644	Intermediate	Water/CdV	Purge water	8.4	5/29/2018	Y	Direct	Vicinity of Well	8/31/2018
143	R-45 S2	Regional	Mortandad	Purge water	348.45	7/17/2018	Y	Sprinkler	Vicinity of Well	9/7/2018
144	R-44 S2	Regional	Mortandad	Purge water	306.44	7/16/2018	Y	Sprinkler	Vicinity of Well	9/7/2018
145	R-44 S2	Regional	Mortandad	Purge water	289.52	6/13/2018	Y	Sprinkler	Vicinity of Well	9/7/2018
146	R-44 S1	Regional	Mortandad	Purge water	227.7	7/16/2018	Y	Sprinkler	Vicinity of Well	9/7/2018
147	R-44 S1	Regional	Mortandad	Purge water	219.78	6/13/2018	Y	Sprinkler	Vicinity of Well	9/7/2018
148	R-50 S2	Regional	Mortandad	Purge water	372.5	7/16/2018	Y	Sprinkler	Vicinity of Well	9/7/2018
149	R-50 S2	Regional	Mortandad	Purge water	514.1	6/12/2018	Y	Sprinkler	Vicinity of Well	9/7/2018
150	R-36	Regional	Sandia	Purge water	194.1	7/11/2018	Y	Sprinkler	Vicinity of Well	9/21/2018
151	R-11	Regional	Sandia	Purge water	198.99	7/11/2018	Y	Sprinkler	Vicinity of Well	9/21/2018
152	R-33 S1	Regional	Mortandad	Purge water	287.37	7/10/2018	Y	Sprinkler	Vicinity of Well	9/24/2018
153	R-33 S2	Regional	Mortandad	Purge water	191.11	7/10/2018	Y	Sprinkler	Vicinity of Well	9/24/2018
154	R-15	Regional	Mortandad	Purge water	251.41	7/13/2018	Y	Sprinkler	Vicinity of Well	9/24/2018
155	R-13	Regional	Mortandad	Purge water	550	7/13/2018	Y	Sprinkler	Vicinity of Well	9/24/2018
156	R-13	Regional	Mortandad	Purge water	80	7/13/2018	Y	Sprinkler	Vicinity of Well	9/24/2018

### Land Application of Groundwater Decision Tree Annual Report for 2018

Item	Well Name	Well Type	Watershed	Description	Volume (gal.)	Generation Date	Decision Point D6 Compliant (Y/N)	Method	Location	Land Application Date
157	SIMR-2	Regional	Mortandad	Purge water	240	7/27/2018	Y	Sprinkler	Transferred to R-13	9/24/2018
158	R-45 S2	Regional	Mortandad	Purge water	342.99	6/13/2018	Y	Sprinkler	Vicinity of Well	9/24/2018
159	R-35b	Regional	Sandia	Purge water	257.04	7/12/2018	Y	Sprinkler	Vicinity of Well	9/26/2018
160	R-35a	Regional	Sandia	Purge water	768.75	7/12/2018	Y	Sprinkler	Vicinity of Well	9/26/2018
161	R-43 S2	Regional	Sandia	Purge water	127.02	7/18/2018	Y	Sprinkler	Vicinity of Well	9/26/2018
162	R-44 S1	Regional	Mortandad	Purge water	227.76	9/10/2018	Y	Sprinkler	Vicinity of Well	11/30/2018
163	R-44 S1	Regional	Mortandad	Purge water	237	8/8/2018	Y	Sprinkler	Vicinity of Well	11/30/2018
164	R-44 S2	Regional	Mortandad	Purge water	306.36	9/10/2018	Y	Sprinkler	Vicinity of Well	11/30/2018
165	R-44 S2	Regional	Mortandad	Purge water	300.39	8/8/2018	Y	Sprinkler	Vicinity of Well	11/30/2018
166	R-45 S2	Regional	Mortandad	Purge water	357.7	9/11/2018	Y	Sprinkler	Vicinity of Well	11/30/2018
167	R-45 S2	Regional	Mortandad	Purge water	342.99	8/8/2018	Y	Sprinkler	Vicinity of Well	11/30/2018
168	R-50 S2	Regional	Mortandad	Purge water	384.54	8/9/2018	Y	Sprinkler	Vicinity of Well	11/30/2018
169	R-17 S1	Regional	Pajarito	Purge water	240.54	4/19/2018	Y	Sprinkler	Vicinity of Well	11/30/2018
170	R-17 S2	Regional	Pajarito	Purge water	154.56	4/19/2018	Y	Sprinkler	Vicinity of Well	11/30/2018

Note: No wells that have previously met land-application criteria had a change in status during 2018.

<sup>a</sup> CdV = Cañon de Valle.

<sup>b</sup> LA = Los Alamos.

