LA-UR-22-21492

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Title: 2020 ASER Supplemental Tables

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Intended for: Report
Web

Issued: 2022-02-22

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2020 ASER Supplemental Tables

This pdf contains the data tables that will be posted on the LANL external website as a supplement to the Los Alamos National Laboratory 2020 Annual Site Environmental Report for Chapters 4 and 7.

LANL quarterly gamma radiation measurements at environmental air monitoring stations during 1999 through 2020. Results are reported in millirem.

Station ID	Station Description	Station Latitude (degrees	Station Longitude (degrees	99Q1	99Q2	99Q3	99Q4	00Q1	00Q2
1	Espanola Airnet #1, 116	36.00397	-106.08231	28	30	25	27	30	27
5	Barranca Mesa Airnet #4, 112	35.90228	-106.28222	37	34	33	30	43	35
7	Cumbres Middle School	35.89589	-106.29520	32	36	31	34	no data	no data
8	48th Street (AirNet #6, 149)	35.88281	-106.32919	38	43	38	38	38	39
9	LA Airport (AirNet #9, 114, 397)	35.88198	-106.27641	33	47	38	35	38	30
10	Bayo Canyon	35.88414	-106.24066	45	45	38	44	no data	no data
11	Shell Station	35.88087	-106.30641	40	39	42	38	no data	no data
12	Royal Crest (AirNet #12, 151)	35.87216	-106.29980	38	34	32	36	40	35
13	WR Fire Station (AirNet #15, 167)	35.82775	-106.20542	35	33	37	35	35	37
14	Estante Way, Pajarito Acres	35.79338	-106.20785	35	33	30	39	no data	no data
15	Bandelier Airnet #17, 133	35.77996	-106.26655	38	39	41	39	40	37
16	Pajarito Ski Hill	35.89375	-106.38768	no data	38	33	35	no data	no data
17	TA-21 (East end)	35.87505	-106.26802	40	39	35	40	39	39
18	TA-69	35.86974	-106.34699	37	41	33	34	34	34
19	TA-53 (LANSCE WNW)	35.87026	-106.26761	31	44	38	44	41	39
20	PM-1 Well (AirNet #11, 137)	35.85902	-106.22535	43	41	41	44	47	42
21	TA-16 West (State Road 501)	35.84705	-106.35698	38	41	37	37	38	37
22	P-2 Booster Airnet #30, 139	35.84569	-106.26672	37	36	44	37	40	36
23	TA-3, SM-43 Airnet #31, 302	35.87337	-106.32267	34	30	29	30	35	32
24	State Roads 4 and 502	35.86728	-106.21739	47	42	45	47	no data	no data
25	TA-49 gate entrance, Airnet# 26 & #39	35.82640	-106.31819	35	36	35	35	36	32
26	TA-2 Stack	35.87368	-106.29001	13	44	39	39	no data	no data
28	TA-18 east	35.84007	-106.26379	42	44	56	47	no data	45
29	TA-35A Parking Lot	35.86320	-106.29364	34	32	31	34	no data	no data
30	TA-35B (NW TA-35-189)	35.86366	-106.29560	33	36	29	32	no data	no data
31	TA-59	35.86757	-106.31740	36	37	37	35	no data	no data
32	TA-3-16 (VandeGraaff)	35.86884	-106.32426	36	36	34	38	no data	no data
33	TA-3-316 (Anaconda)	35.86904	-106.32239	35	40	34	36	no data	no data
34	TA-3-440 (Central Alarm Fac.)	35.86991	-106.32239	43	42	39	47	no data	no data
35	TA-3-420 (CMR West Fence)	35.87026	-106.32325	35	33	31	33	no data	no data
36	TA-3-102 (Shop)	35.87013	-106.32460	40	36	30	35	no data	no data
37	TA-72 Pistol Range	35.86301	-106.24958	44	45	43	45	43	41
38	TA-55 South	35.86272	-106.30462	40	43	39	41	43	37
39	TA-55 West	35.86377	-106.30490	43	44	38	40	41	38
40	TA-55 North	35.86412	-106.30146	37	33	36	36	no data	no data
41	McDonalds (AirNet #8, 166)	35.87821	-106.29735	39	36	35	37	33	38
42	LA Airport South	35.87780	-106.26084	29	36	31	40	no data	no data

LANL quarterly gamma radiation measurements at environmental air monitoring stations during 1999 through 2020. Results are reported in millirem.

Station ID	Station Description	Station Latitude (degrees	Station Longitude (degrees	99Q1	99Q2	99Q3	99Q4	00Q1	00Q2
43	East Gate Business Center	35.87501	-106.24863	29	no data	no data	34	no data	no data
44	Big Rock Lp	35.88660	-106.26743	43	41	40	45	no data	no data
45	Cheyenne St	35.88915	-106.27504	41	39	35	40	no data	no data
46	Los Pueblos Road	35.89600	-106.25722	39	40	36	39	no data	no data
47	Urban Park Airnet 5, 112	35.89132	-106.32423	36	35	36	36	40	35
48	Landfill (AirNet #32, 172)	35.87790	-106.31703	34	33	41	33	36	35
49	WR Pinon School (AirNet #13, 119)	35.82420	-106.21210	34	32	30	34	36	33
50	WR Nazarene Church (AirNet #16, 168)	35.82257	-106.22182	26	33	37	34	34	32
51	Bayo Test Well #1	35.87019	-106.21756	42	47	36	42	no data	no data
53	Airnet #70 & #294	35.88501	-106.12551	31	29	28	29	44	27
55	WR Monterey South (AirNet #63,213)	35.81125	-106.22495	31	31	33	37	35	30
56	Eastgate (mid Station)	35.87512	-106.25452	42	38	33	47	no data	no data
57	TA-54 West (old TLD Lab)	35.84688	-106.26722	34	38	38	40	no data	no data
58	TA-54 Pajarito Road Airnet #49,196	35.83077	-106.24939	41	39	46	41	44	39
59	TA-41 W (AirNet #60,210)	35.87799	-106.30727	39	38	49	41	45	40
60	WR, Piedra Dr, (AirNet #14,121)	35.81090	-106.21430	33	30	37	32	34	30
61	S. LANSCE Lagoons	35.86675	-106.25215	157	631	525	844	no data	no data
62	N. LANSCE Lagoons	35.86799	-106.25247	73	95	97	82	no data	no data
63	E. LANSCE Lagoons	35.86728	-106.25159	188	731	823	1380	no data	no data
64	NE LANSCE Area A Stack	35.87062	-106.25634	40	57	91	52	60	44
65	NW LANSCE Area A Stack	35.87030	-106.25856	46	68	49	57	no data	41
66	Eastgate (AirNet #10,157)	35.87536	-106.25554	30	37	45	38	43	39
67	LA Hospital (AirNet #61, 211)	35.88173	-106.31674	no data	32	32	37	36	37
68	Crossroads Chuch (AirNet#62, 212)	35.88053	-106.28772	37	36	44	38	41	34
69	TA-50 Old Outfall	35.86480	-106.29838	45	46	43	50	no data	no data
70	TA-50 Dirt Rd to Outfall	35.86430	-106.29833	42	42	no data	46	no data	no data
71	TA-50 Dirt Rd turnoff	35.86373	-106.29713	30	48	38	40	no data	no data
72	TA-50 East Fence	35.86183	-106.29751	39	41	47	39	40	36
73	TA-50 South Corner	35.86242	-106.29750	34	39	41	34	no data	no data
74	TA-50 Pecos Drive	35.86291	-106.29819	32	35	40	35	no data	no data
75	TA-50-37 West	35.86237	-106.29986	37	41	43	37	39	35
76	TA-16 WETF (AirNet #25)	35.83963	-106.35383	36	34	35	36	38	34
77	TA-16 Guard Station (bldg 210)	35.85086	-106.34995	34	41	36	36	41	36
78	Fitness Trail SW TA-8-24	35.85672	-106.35088	37	45	36	40	40	36
79	Fitness Trail SE TA-8-24	35.85671	-106.35016	38	44	35	41	no data	no data
80	TA-16 SR4 Back Gate	35.82994	-106.33433	36	38	35	38	34	no data
81	TA-16 SR4 Ponderosa Camp	35.83421	-106.35755	34	42	34	37	35	34

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Station ID	Station Description	Station Latitude (degrees	Station Longitude (degrees	99Q1	99Q2	99Q3	99Q4	00Q1	00Q2
82	TA-15 Phermex N TA-15-185	35.83318	-106.29619	38	42	40	42	no data	no data
83	TA-15 Phermex Entrance	35.83396	-106.29766	28	no data	30	31	no data	no data
84	TA-15 Phermex NNE Entranc	35.83453	-106.29890	35	no data	28	36	no data	no data
85	TA-15 Phermex, N DARHT	35.83632	-106.30313	35	41	33	37	no data	no data
86	TA-15-312, DARHT Entrance	35.83555	-106.30305	36	no data	35	38	no data	no data
87	TA-15-183, Access Control	35.84128	-106.30977	39	40	38	41	no data	no data
88	TA-15 R-Site Rd (AirNet #76)	35.84377	-106.30158	33	36	34	47	42	35
89	TA-15-45 SW (AirNet #78)	35.84582	-106.29827	35	44	33	40	43	38
90	TA-15-306 North	35.84312	-106.29509	34	38	32	48	no data	no data
91	TA-15, IJ Firing Pt (AirNet #77)	35.83700	-106.29213	38	38	36	39	40	35
92	TA-36 Kappa Site	35.83853	-106.27531	42	42	36	40	no data	no data
93	TA-15 Ridge Road Gate	35.83979	-106.29197	33	37	32	36	no data	no data
94	TA-33 VLBA dish Airnet #54	35.77531	-106.24542	32	29	31	32	35	28
95	El Rancho Airnet #56,234	35.89528	-106.07614	33	32	32	35	39	28
96	TA-54, Met Tower, at NewNet	35.82567	-106.22332	40	41	32	35	no data	no data
97	TA-50, GS-1-1, Mortandad Canyon	35.86044	-106.26993	43	45	44	48	no data	no data
98	TA-50, GS-1-2, Mortandad Canyon	35.86123	-106.27138	93	94	92	100	no data	no data
99	Mortandad Canyon, MCO-5	35.86046	-106.25930	97	110	97	114	no data	no data
100	Mortandad Canyon, MCO-13	35.85576	-106.24512	39	42	36	38	38	no data
101	Santa Fe West, Buckman Mesa Airnet#55	35.71269	-106.01653	29	32	36	30	35	28
102	TA-15, S-site NewNet Bldgs	35.84515	-106.35635	35	no data	no data	no data	no data	no data
103	Santa Clara Pueblo Arts&Craft	35.96089	-106.19617	28	no data	85	43	57	35
104	TA-53 New LANSCE Lagoons	35.86812	-106.25039	no data	54	63	65	70	47
105	TA-3-1663, Wellness Center	35.87479	-106.33057	no data	no data	no data	no data	32	no data
106	TA-3, University House	35.87621	-106.32305	no data	no data	no data	no data	36	32
107	TA-5, Elect Substation, Airnet #23,148	35.85886	-106.28001	no data	no data	no data	no data	33	31
108	TA-43-1 west of HRL. at Cooling Tower	35.88085	-106.32108	no data	no data	no data	no data	33	34
109	TA-48,south of RC-1, fence corner	35.86507	-106.30679	no data	no data	no data	no data	34	33
110	AIRNET TA-21-71 Airnet #20	35.87833	-106.27867	no data	no data	no data	no data	34	36
111	AIRNET TA-21-72	35.87794	-106.27703	no data	no data	no data	no data	no data	no data
112	AIRNET TA-21-74	35.87573	-106.27650	no data	no data	no data	no data	no data	no data
113	AIRNET TA-21-75	35.87592	-106.27734	no data	no data	no data	no data	no data	no data
114	Lansce, 100 m East of new lagoons	35.86768	-106.24947	no data	no data	no data	no data	47	42
115	Lansce, 100 m North of new lagoons	35.86872	-106.25072	no data	no data	no data	no data	56	47
116	TA-53 east edge of old Lansce lagoons	35.86721	-106.25141	no data	no data	no data	no data	125	114
117	TA-3-130 Calibration Lab North	35.86894	-106.32021	no data	no data	no data	no data	72	49
118	TA-3-130 Calibration Lab, east	35.86867	-106.32003	no data	no data	no data	no data	no data	no data

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119	TA-3-130 Calibration Lab, south	35.86860	-106.32016	no data	no data	no data	no data	no data	no data
120	TA-2-Omega D & D project,fence at gate	35.87624	-106.29202	no data	no data	no data	no data	no data	no data
121	LA Inn, back near canyon, Airnet #66	35.87861	-106.30452	no data	no data	no data	no data	no data	no data
122	TA-3, at Research Park Fire Station Airnet	35.87720	-106.32435	no data	no data	no data	no data	no data	no data
123	TA-53,Alvarez Rd, first turn	35.86691	-106.26534	no data	no data	no data	no data	no data	no data
124	TA-53, parking lot S of Orange Box	35.86567	-106.25944	no data	no data	no data	no data	no data	no data
125	TA-53, N of Met Tower, canyon edge	35.87061	-106.25439	no data	no data	no data	no data	no data	no data
126	LA Airport Rd Airnet #68, 290	35.88088	-106.27920	no data	no data	no data	no data	no data	no data
127	TA-8, S end of Tank 8-110	35.86086	-106.35367	no data	no data	no data	no data	no data	no data
128	TA-49 gate of met Tower, Bldg 123, Airnet	35.81331	-106.29939	no data	no data	no data	no data	no data	no data
129	old Pajarito School, Airnet # 80	35.90509	-106.31559	no data	no data	no data	no data	no data	no data
130	DP-W Road, corner fence,Knights of Colu	35.87962	-106.29121	no data	no data	no data	no data	no data	no data
131	TA-50, MDA-C, Airnet #53, 297	35.8609	-106.2962	no data	no data	no data	no data	no data	no data
132	S.F. School for Deaf Airnet #3, 299	35.67833	-105.9545	no data	no data	no data	no data	no data	no data
133	1.5 km S of TA53	35.85180	-106.260483	no data	no data	no data	no data	no data	no data
134	N of Canada del Buey Airnet #293	35.834811	-106.240897	no data	no data	no data	no data	no data	no data
135	Santa Clara Day School	no data	no data	no data	no data	no data	no data	no data	no data
137	LA Airport Runway Airnet #40, 311	35.87889	-106.26222	no data	no data	no data	no data	no data	no data
138	A-15 West End Airnet #42, 317	35.87917	-106.28361	no data	no data	no data	no data	no data	no data
139	New Beginnings Church Airnet #44, 319	35.88178	-106.28654	no data	no data	no data	no data	no data	no data
140	East Rd Fire Station Airnet #43, 318	35.88139	-106.36639	no data	no data	no data	no data	no data	no data
141	Hedgerow East Rd Airnet #46, 320	35.88111	-106.28167	no data	no data	no data	no data	no data	no data
142	Hillside 138 Airnet #324	35.87839	-106.30374	no data	no data	no data	no data	no data	no data
143	A15 west-center Airnet #74, 329	35.87878	-106.28281	no data	no data	no data	no data	no data	no data
144	A15 east-center Airnet #75, 330	35.87849	-106.28187	no data	no data	no data	no data	no data	no data
145	A15 east end Airnet #79, 331	35.8782	-106.28093	no data	no data	no data	no data	no data	no data
146	DP Rd Fire station Airnet #71, 326	35.87909	-106.28765	no data	no data	no data	no data	no data	no data
147	DP Rd Ace Hardware Airnet #72, 327	35.87916	-106.28645	no data	no data	no data	no data	no data	no data
148	DP Rd Los Alamos Monitor Airnet #73, 32	35.87921	-106.28549	no data	no data	no data	no data	no data	no data
149	inside TA-48-1 (special for RCTs 2008)	35.8658	-106.3065	no data	no data	no data	no data	no data	no data
150	Santa Clara N	no data	no data	no data	no data	no data	no data	no data	no data
151	Santa Clara Puye	no data	no data	no data	no data	no data	no data	no data	no data
152	Santa Clara S	no data	no data	no data	no data	no data	no data	no data	no data
170	Airport hangars Airnet #347	35.8816	-106.27240	no data	no data	no data	no data	no data	no data
171	SR502 mid runway Airnet #348	35.879	-106.268	no data	no data	no data	no data	no data	no data
172	Canyon Complex Airnet #345	35.8818	-106.2904	no data	no data	no data	no data	no data	no data
173	Hilltop House Airnet #344	35.8809	-106.2916	no data	no data	no data	no data	no data	no data

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174	Knights of Columbus Airnet #291	35.87963	-106.29128	no data	no data	no data	no data	no data	no data
181	Kappa Site-Newnet,was old Albedo #1	35.83700	-106.26330	35	35	39	39	47	33
182	TA-36 entrance, near HSR4 Cal lab	35.83797	-106.27263	39	39	44	42	51	38
183	TA-18 parking lot, small ped gate, Albedo#	35.83885	-106.26360	39	35	48	44	47	34
185	TA-51 E side of main entrance,Albedo# 5	35.84909	-106.27329	35	33	37	35	43	35
187	TA-18, entrance from Pajarito Rd	35.83878	-106.26274	37	32	38	38	48	37
190	Santa Clara Convenience Store (gas static	no data	no data	no data	no data	no data	no data	no data	no data
191	WR Pajarito Rd Airnet #392	35.82387	-106.22259	no data	no data	no data	no data	no data	no data
192	West Gate Airnet #390	35.83597	-106.36019	no data	no data	no data	no data	no data	no data
193	Transit Mix Airnet #393	35.87685	-106.31077	no data	no data	no data	no data	no data	no data
194	East Gate shed Airnet #394	35.87472	-106.25064	no data	no data	no data	no data	no data	no data
195	East Gate tank Airnet #395	35.87467	-106.24917	no data	no data	no data	no data	no data	no data
196	Co-op Airnet #396	35.87717	-106.26229	no data	no data	no data	no data	no data	no data
197	502 W Runway Airnet #397	35.87994	-106.27351	no data	no data	no data	no data	no data	no data
198	Bandelier gate Airnet #391	35.79671	-106.27576	no data	no data	no data	no data	no data	no data
323	TA-21 MDA T	35.87707	-106.27557	77	no data	no data	74	76	71
361	TA-21 MDA V Airnet #20	35.87729	-106.28122	35	36	28	33	41	35
401	East Gate ENE	35.87504	-106.25343	no data	no data	no data	no data	43	39
403	East Gate NE	35.87514	-106.25487	no data	no data	no data	no data	42	38
405	East Gate NNE	35.87518	-106.25602	no data	no data	no data	no data	43	39
408	East Gate N	35.87516	-106.25789	no data	no data	no data	no data	46	41
412	East Gate NNW	35.87570	-106.26075	no data	no data	no data	no data	no data	39
340	DP East (Solar) Airnet#340	35.87950	-106.27083	no data	no data	no data	no data	no data	no data
601	TA-54 Area G NW pit 38	35.83342	-106.24501	45	48	41	58	43	43
602	TA-54 Area G N of bldg 283	35.83305	-106.24278	66	76	70	79	78	57
603	TA-54-2 Area G North	35.83216	-106.24032	45	43	38	58	43	40
604	TA-54-20 Area G North	35.83205	-106.23963	39	42	39	60	43	42
605	TA-54 Area G SW of bldg 375	35.83133	-106.23874	42	no data	89	67	no data	no data
606	TA-54 Area G North of bldg 375	35.83176	-106.23798	41	43	52	158	207	206
607	TA-54-412 Area G North	35.83179	-106.23603	59	57	55	74	59	51
608	TA-54 Area G NE corner	35.83129	-106.23405	62	65	69	58	49	46
609	TA-54 Area G interior near #610	35.83059	-106.23511	no data	no data	no data	no data	no data	no data
610	TA-54-296 Area G East	35.83031	-106.23451	62	63	56	55	53	50
611	TA-54-231 Area G East	35.82968	-106.23508	105	118	119	130	125	115
612	TA-54 Area G between 611 & 613	35.82935	-106.23555	no data	no data	no data	no data	no data	no data
613	TA-54 Area G S of bldg 229	35.82859	-106.23541	82	95	83	97	97	81
614	TA-54 Area G W of bldg 230	35.82929	-106.23627	66	74	67	85	70	69

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615	TA-54 Area G South fence	35.82914	-106.23848	44	48	42	58	45	44
616	TA-54 Area G interioor N of 615	35.83015	-106.23838	42	45	39	58	no data	no data
617	TA-54 Area G South Airnet	35.82941	-106.23969	42	46	44	54	44	45
618	TA-54 Area G SE of pit 39	35.83042	-106.24048	43	45	43	47	45	42
619	TA-54 Area G interior N of 618	35.83135	-106.24046	53	55	50	61	no data	no data
620	TA-54 Area G SW of pit 39	35.83020	-106.24170	no data	58	41	52	42	43
621	TA-54 Area G interior N of 620	35.83133	-106.24139	no data	no data	no data	no data	no data	no data
622	TA-54 Area G S of bldg 153	35.83178	-106.24232	61	61	58	62	58	58
623	TA-54 Area G East of bldg 49	35.83133	-106.24356	49	55	52	58	53	57
624	TA-54 Area G South of bldg 49	35.83067	-106.24369	41	43	42	44	42	115
625	TA-54 Area G NW of bldg 49	35.83196	-106.24451	49	52	47	50	49	50
626	TA-54 Area G SW of pit 38	35.83287	-106.24527	41	47	41	43	45	41
627	TA-54 Area G interiopr near 607	35.83140	-106.23643	57	72	80	113	no data	no data
628	TA-54 Area G interior S of #627	35.83080	-106.23688	55	56	56	68	no data	no data
629	TA-54 Area G between #614 & 615	35.82931	-106.23683	50	52	54	59	51	48
630	TA-54 Area G between #622 and 623	35.83177	-106.24285	60	no data	no data	69	60	59
631	TA-54 Area G interior	35.83271	-106.24461	45	50	46	50	no data	no data
632	TA-54 Area G interior W of bldg 48	35.83111	-106.23560	2705	2143	2443	2357	no data	no data
633	TA-54 Area G interior E of bldg 48	35.83104	-106.23530	479	468	492	509	no data	no data
634	TA-54 Area G outside East fence	35.83071	-106.23413	69	70	64	65	57	50
635	TA-54 Area G outside E fence, Airnet #45	35.83023	-106.23426	no data	67	66	62	62	58
636	TA-54 Area G SW new expansion area	35.83216	-106.24756	47	44	41	53	44	41
637	TA-54 Area G South new expansion area	35.83174	-106.24591	no data	45	41	52	43	43
638	TA-54 Area G NEW new expansion area	35.83446	-106.24827	42	43	36	44	42	38
639	TA-54 Area G North of pad 4	35.83150	-106.23452	69	76	72	84	61	54
640	TA-54 Area G South of bldg 229	35.82866	-106.23597	64	70	61	76	69	64
641	TA-54 Area G - 41, west of bldg 229	35.82895	-106.23605	65	73	68	73	72	71
642	TA-54 Area G Canada del Buey N of bldg	35.83370	-106.23730	no data	no data	no data	no data	no data	50
643	TA-54 Area G Canada del Buey W of TLD	35.83370	-106.23790	no data	no data	no data	no data	no data	54
644	TA-54 Area G Canada del Buey NE of Bld	35.83270	-106.23180	no data	no data	no data	no data	no data	no data
645	TA-54 Area G Canada del Buey E of TLD6	35.83240	-106.23140	no data	no data	no data	no data	no data	no data
646	TA-54 Area-G - NW of bldg 375	35.83188	-106.23872	no data	no data	no data	no data	no data	no data
647	TA-54 Area-G - NE of bldg 375	35.83167	-106.23727	no data	no data	no data	no data	no data	no data
648	TA-54 Area-G - SW of Bldg 375-old # 605	35.83125	-106.23886	no data	no data	no data	no data	no data	no data
649	TA-54 Area-G - SE of bldg 375	35.83106	-106.23740	no data	no data	no data	no data	no data	no data
650	TA-54 Area-G on fence 14 posts W of 639	35.83160	-106.23526	no data	no data	no data	no data	no data	no data
651	Pajarito Rd gate SW of Area G	35.82967	-106.24453	no data	no data	no data	no data	no data	no data

LANL quarterly gamma radiation measurements at environmental air monitoring stations during 1999 through 2020. Results are reported in millirem.

Station ID	Station Description	Station Latitude (degrees	Station Longitude (degrees	99Q1	99Q2	99Q3	99Q4	00Q1	00Q2
652	Pajarito Rd gate SE of Area G	35.82779	-106.23686	no data	no data	no data	no data	no data	no data

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Station ID	00Q3	00Q4	01Q1	01Q2	01Q3	01Q4	02Q1	02Q2	02Q3	02Q4	03Q1	03Q2	03Q3	03Q4	04Q1	04Q2
1	25	26	25	29	no data	no data	23	28	27	24	28	21	22	21	30	24
5	32	31	31	32	no data	no data	28	31	27	28	29	31	27	27	25	29
7	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
8	39	36	34	36	37	35	36	38	34	41	35	34	38	43	32	37
9	30	28	27	30	34	31	46	30	27	27	32	28	29	28	24	30
10	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
11	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
12	34	30	31	34	36	32	28	30	31	31	34	33	31	26	27	33
13	32	31	31	35	32	31	25	35	36	31	34	29	29	28	28	33
14	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
15	34	32	35	38	37	33	34	31	35	35	34	33	31	29	28	35
16	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
17	38	33	33	37	43	37	33	36	36	34	no data	no data	no data	no data	no data	no data
18	35	30	32	33	37	30	36	33	34	39	no data	no data	no data	no data	no data	no data
19	40	35	33	38	38	36	28	37	34	31	42	31	31	32	33	33
20	41	36	36	38	39	39	38	42	35	31	39	36	36	38	33	36
21	36	33	30	32	39	33	30	35	33	34	no data	no data	no data	no data	no data	no data
22	35	33	33	35	35	33	30	32	29	23	31	30	29	28	26	28
23	29	27	27	29	27	28	27	30	30	28	29	25	29	24	25	29
24	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
25	33	30	28	32	35	31	26	30	30	29	32	31	26	28	26	28
26	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
28	48	42	47	41	50	42	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
30	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
31	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
32	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
33	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
34	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
35	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
36	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
37	40	36	34	39	42	41	32	32	39	34	no data	no data	no data	no data	no data	no data
38	35	35	34	36	38	34	39	36	41	32	37	34	34	33	33	33
39	38	37	34	39	40	37	34	37	38	30	no data	no data	no data	no data	no data	no data
40	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
41	35	33	33	35	38	34	31	32	33	31	33	30	30	30	29	35
42	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

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Station ID	00Q3	00Q4	01Q1	01Q2	01Q3	01Q4	02Q1	02Q2	02Q3	02Q4	03Q1	03Q2	03Q3	03Q4	04Q1	04Q2
43	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
44	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
45	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
46	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
47	34	32	31	35	34	34	36	31	33	31	35	34	32	31	28	35
48	32	29	29	32	30	31	24	31	31	30	31	31	40	29	31	36
49	30	28	31	29	31	32	31	30	26	30	no data	27	29	35	28	30
50	29	29	29	29	30	29	26	27	32	no data	32	28	30	27	35	29
51	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
53	27	27	28	27	24	29	28	26	34	31	27	32	41	28	21	28
55	30	28	30	29	29	29	30	27	32	27	36	26	27	28	29	29
56	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
57	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
58	38	33	35	40	39	35	29	36	35	32	34	37	35	33	30	36
59	40	37	33	41	43	38	31	34	35	32	34	no data	no data	35	30	36
60	30	28	28	29	29	28	25	30	28	24	29	26	28	30	26	35
61	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
62	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
63	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
64	45	52	45	43	51	42	32	28	34	29	31	27	29	30	30	29
65	39	40	37	35	42	41	35	32	34	33	36	39	32	40	32	30
66	36	33	36	35	40	36	30	30	30	33	32	34	31	33	27	30
67	31	29	31	32	35	33	28	33	37	31	35	27	32	33	28	34
68	no data	30	30	32	33	31	23	30	33	29	33	31	31	27	no data	34
69	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
70	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
71	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
72	39	34	34	35	38	35	34	33	38	31	35	31	31	39	32	36
73	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
74	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
75	35	30	32	33	35	31	30	32	34	32	33	no data	32	29	30	33
76	34	30	29	32	34	31	29	29	31	33	31	34	35	33	27	32
77	34	32	31	no data	34	35	35	29	31	32	no data	no data	no data	no data	no data	no data
78	36	31	29	37	40	34	36	44	37	32	no data	no data	no data	no data	no data	no data
79	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
80	35	31	32	35	33	34	36	30	34	32	no data	no data	no data	no data	no data	no data
81	34	31	30	no data	no data	31	28	29	31	30	no data	no data	no data	no data	no data	no data

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Station ID	00Q3	00Q4	01Q1	01Q2	01Q3	01Q4	02Q1	02Q2	02Q3	02Q4	03Q1	03Q2	03Q3	03Q4	04Q1	04Q2
82	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
83	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
84	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
85	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
86	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
87	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
88	35	30	33	33	38	33	37	32	34	37	no data	no data	no data	no data	no data	no data
89	36	no data	34	37	39	35	34	32	44	35	no data	no data	no data	no data	no data	no data
90	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
91	35	32	32	34	34	32	31	31	31	34	34	36	34	35	30	34
92	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
93	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
94	29	28	28	30	27	29	26	30	27	25	no data	no data	no data	no data	no data	no data
95	29	30	30	29	26	30	26	30	27	30	31	26	29	28	27	31
96	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
97	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
98	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
99	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
100	36	34	34	37	38	37	41	35	34	33	no data	no data	no data	no data	no data	no data
101	27	27	26	28	30	28	22	24	26	32	25	23	31	22	26	26
102	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
103	35	35	33	36	34	34	32	35	30	30	38	32	32	no data	24	32
104	42	38	37	39	42	38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
105	no data	29	29	28	30	no data	23	28	29	33	no data	no data	no data	no data	no data	no data
106	32	27	28	30	33	28	31	29	30	28	no data	no data	no data	no data	no data	no data
107	29	27	27	31	32	28	27	26	27	28	28	27	28	29	26	33
108	33	30	29	31	31	33	29	29	34	42	no data	no data	no data	no data	no data	no data
109	33	31	30	34	36	31	29	29	31	28	31	30	36	34	27	29
110	30	30	30	31	37	31	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
111	no data	no data	no data	no data	no data	no data	no data	no data	no data	31	no data	no data	no data	no data	no data	no data
112	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
113	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
114	40	33	34	37	38	36	32	32	33	30	32	27	38	34	32	32
115	41	36	37	38	45	40	32	30	35	35	32	31	59	40	33	38
116	66	50	49	53	55	49	45	49	48	42	no data	no data	no data	no data	no data	no data
117	55	48	47	48	43	33	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
118	no data	157	139	147	111	77	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

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Station ID	00Q3	00Q4	01Q1	01Q2	01Q3	01Q4	02Q1	02Q2	02Q3	02Q4	03Q1	03Q2	03Q3	03Q4	04Q1	04Q2
119	no data	246	210	284	122	62	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
120	no data	no data	29	38	38	40	32	no data	40	56	no data	no data	no data	no data	no data	no data
121	no data	no data	35	37	38	35	31	35	34	30	34	32	32	29	30	35
122	no data	no data	30	31	33	29	28	26	30	27	32	25	26	34	24	38
123	no data	no data	no data	no data	no data	no data	32	30	32	35	33	28	33	36	35	32
124	no data	no data	no data	no data	no data	no data	33	33	37	33	35	32	33	34	35	37
125	no data	no data	no data	no data	no data	no data	29	29	36	30	32	31	31	30	27	29
126	no data	no data	no data	no data	no data	no data	28	29	34	31	33	34	32	27	28	39
127	no data	no data	no data	no data	no data	no data	no data	28	32	28	no data	no data	no data	no data	no data	no data
128	no data	no data	no data	no data	no data	no data	no data	36	33	32	no data	no data	no data	no data	no data	no data
129	no data	no data	no data	no data	no data	no data	no data	no data	33	31	no data	no data	no data	no data	no data	no data
130	no data	no data	no data	no data	no data	no data	no data	no data	32	26	no data	no data	no data	no data	no data	no data
131	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
132	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	26	27
133	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	29	36
134	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	32	40
135	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	22	28
137	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
138	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
139	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
140	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
141	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
142	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
143	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
144	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
145	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
146	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
147	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
148	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
149	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
150	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
151	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
152	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
170	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
171	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
172	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
173	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	00Q3	00Q4	01Q1	01Q2	01Q3	01Q4	02Q1	02Q2	02Q3	02Q4	03Q1	03Q2	03Q3	03Q4	04Q1	04Q2
174	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
181	40	no data	38	28	50	42	26	29	34	27	28	31	43	38	24	28
182	42	no data	39	31	52	48	35	31	34	31	34	35	34	33	30	31
183	45	no data	44	34	63	48	36	32	39	38	36	37	43	31	34	44
185	39	no data	39	29	45	40	30	24	27	28	31	25	28	30	40	23
187	43	no data	41	33	49	50	30	28	30	30	27	31	33	28	31	32
190	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
191	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
192	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
193	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
194	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
195	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
196	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
197	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
198	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
323	73	59	54	66	78	68	58	71	68	61	no data	no data	no data	no data	no data	no data
361	34	30	30	32	35	31	30	31	34	32	34	33	32	33	31	34
401	36	30	33	36	39	37	36	28	33	30	no data	no data	no data	no data	no data	no data
403	38	34	34	36	42	38	27	29	34	30	no data	no data	no data	no data	no data	no data
405	39	30	35	36	42	37	31	31	34	34	no data	no data	no data	no data	no data	no data
408	39	34	37	39	41	40	25	35	32	31	no data	no data	no data	no data	no data	no data
412	38	33	37	36	41	38	28	36	34	31	no data	no data	no data	no data	no data	no data
340	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
601	43	41	40	44	39	42	30	39	40	35	35	53	55	46	34	39
602	68	66	66	61	63	73	46	no data	58	56	77	84	94	90	90	99
603	42	40	42	41	41	42	38	36	36	35	50	49	43	33	35	35
604	45	40	41	44	44	46	31	39	39	47	45	39	38	36	34	36
605	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
606	198	224	177	221	225	329	278	304	312	288	277	258	250	302	343	324
607	51	52	54	56	66	64	42	45	47	42	43	44	41	46	43	52
608	43	42	44	47	46	49	33	41	38	34	39	39	38	46	37	40
609	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
610	50	49	49	50	56	50	43	37	37	34	37	36	38	39	36	38
611	129	119	116	125	116	109	118	119	117	135	130	117	102	120	123	107
612	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
613	86	88	84	87	91	83	66	78	71	66	72	71	69	68	68	71
614	68	66	62	65	75	71	47	54	50	45	53	51	66	52	49	48

LANL quarterl

Station ID	00Q3	00Q4	01Q1	01Q2	01Q3	01Q4	02Q1	02Q2	02Q3	02Q4	03Q1	03Q2	03Q3	03Q4	04Q1	04Q2
615	45	40	42	44	46	45	34	36	39	36	38	36	35	40	36	41
616	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
617	41	40	40	42	43	43	32	35	37	36	37	41	37	41	39	41
618	42	40	41	45	44	44	36	33	37	37	37	35	38	46	36	46
619	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
620	46	37	41	40	38	41	28	37	39	35	39	46	39	42	37	42
621	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
622	56	55	57	55	60	55	42	45	47	48	50	51	51	55	53	68
623	65	79	74	59	78	85	119	285	299	474	no data	no data	no data	no data	no data	no data
624	144	156	151	86	63	72	55	68	96	157	158	153	149	159	122	129
625	48	48	48	47	46	48	36	40	45	41	42	50	47	58	49	53
626	42	37	38	40	40	39	34	35	32	33	33	39	41	37	36	36
627	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
628	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
629	49	47	50	49	49	52	40	39	39	35	no data	no data	no data	no data	no data	no data
630	63	66	64	54	55	57	44	48	46	49	no data	no data	no data	no data	no data	no data
631	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
632	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
633	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
634	53	52	53	55	57	55	58	46	42	37	no data	no data	no data	no data	no data	no data
635	60	58	53	54	62	59	40	45	44	42	46	45	45	47	47	42
636	40	38	39	39	43	40	31	33	32	35	no data	no data	no data	no data	no data	no data
637	42	36	41	41	43	45	40	34	40	50	no data	no data	no data	no data	no data	no data
638	40	35	34	39	41	39	28	34	31	38	no data	no data	no data	no data	no data	no data
639	55	55	56	60	57	57	42	62	50	44	43	63	44	43	45	47
640	69	66	68	63	61	55	58	55	56	53	54	49	47	54	49	43
641	67	66	63	64	72	64	69	61	57	52	no data	no data	no data	no data	no data	no data
642	46	46	48	48	50	49	43	54	41	37	40	45	39	47	39	40
643	52	48	48	53	50	54	37	41	50	40	42	42	57	47	38	51
644	no data	no data	no data	no data	no data	no data	no data	36	39	35	36	36	34	41	34	39
645	no data	no data	no data	no data	no data	no data	no data	39	37	42	38	37	39	67	42	37
646	no data	no data	no data	no data	no data	no data	no data	86	81	80	83	79	86	91	93	92
647	no data	no data	no data	no data	no data	no data	no data	77	67	76	66	no data	68	79	80	79
648	no data	no data	no data	no data	no data	no data	no data	95	80	80	80	83	78	97	84	86
649	no data	no data	no data	no data	no data	no data	no data	54	50	56	50	51	52	65	61	61
650	no data	no data	no data	no data	no data	no data	no data	79	59	78	60	58	74	56	54	65
651	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	00Q3	00Q4	01Q1	01Q2	01Q3	01Q4	02Q1	02Q2	02Q3	02Q4	03Q1	03Q2	03Q3	03Q4	04Q1	04Q2
652	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	04Q3	04Q4	05Q1	05Q2	05Q3	05Q4	06Q1	06q2	06Q3	06Q4	07Q1	07Q2	07Q3	07Q4	08Q1	08Q2	08Q3
1	25	23	31	no data	21	26	30	28	23	26	24	23	24	22	23	23	23
5	24	22	24	26	25	30	28	27	31	25	27	28	22	32	24	28	27
7	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
8	35	33	31	39	37	31	40	38	38	30	43	33	31	35	27	35	35
9	29	25	26	33	29	28	30	32	28	30	30	30	26	30	27	30	28
10	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
11	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
12	30	29	30	30	29	31	33	30	33	31	30	27	29	27	30	31	27
13	28	26	27	26	27	28	28	29	33	26	25	32	25	26	32	30	27
14	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
15	34	30	32	33	32	34	34	35	38	35	37	35	36	32	29	32	32
16	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
17	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
18	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
19	35	32	30	34	34	34	38	31	32	34	32	35	30	35	27	35	32
20	35	36	35	34	36	39	42	39	42	33	37	38	33	55	35	41	35
21	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
22	28	23	27	30	34	29	33	35	34	27	32	33	30	31	28	30	28
23	27	31	26	31	28	31	32	28	31	26	29	30	26	29	35	29	29
24	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
25	30	26	24	31	28	31	34	30	32	29	29	32	29	25	28	32	28
26	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
30	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
31	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
32	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
33	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
34	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
35	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
36	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
37	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
38	35	41	33	38	34	no data	39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
40	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
41	33	31	28	35	30	34	36	32	36	31	32	31	30	34	33	33	34
42	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	04Q3	04Q4	05Q1	05Q2	05Q3	05Q4	06Q1	06q2	06Q3	06Q4	07Q1	07Q2	07Q3	07Q4	08Q1	08Q2	08Q3
43	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
44	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
45	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
46	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
47	33	25	28	39	32	28	35	36	31	29	31	29	28	30	34	31	31
48	30	26	29	31	31	33	no data	32	35	28	27	33	33	33	28	28	30
49	31	26	25	33	24	25	24	25	25	26	23	29	27	24	24	26	23
50	27	27	28	31	30	27	29	30	35	29	23	30	25	28	31	27	28
51	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
53	25	31	27	24	24	30	31	24	26	24	27	32	24	23	25	26	26
55	27	26	27	27	28	26	37	28	32	31	28	30	23	26	29	30	32
56	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
57	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
58	33	34	32	34	35	34	33	32	36	34	32	32	32	33	29	36	38
59	36	30	32	39	35	39	40	41	39	38	30	40	34	31	37	38	37
60	27	29	26	30	28	31	29	31	32	24	26	33	28	24	27	28	28
61	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
62	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
63	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
64	31	29	31	33	34	28	30	30	35	31	27	34	28	35	29	29	29
65	33	27	28	37	35	34	47	30	37	34	31	32	33	38	28	34	32
66	29	28	27	32	30	30	34	27	34	29	38	28	30	31	26	29	34
67	33	24	31	30	30	29	29	31	32	27	33	30	27	32	27	31	35
68	28	26	30	36	28	29	31	36	31	28	29	33	27	28	30	30	27
69	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
70	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
71	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
72	38	33	35	44	34	32	35	34	33	32	no data	no data	no data	no data	no data	no data	no data
73	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
74	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
75	31	37	34	36	34	31	40	28	36	35	no data	no data	no data	no data	no data	no data	no data
76	34	30	29	32	32	30	35	32	36	30	30	31	31	31	31	34	30
77	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
78	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
79	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
80	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
81	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	04Q3	04Q4	05Q1	05Q2	05Q3	05Q4	06Q1	06q2	06Q3	06Q4	07Q1	07Q2	07Q3	07Q4	08Q1	08Q2	08Q3
82	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
83	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
84	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
85	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
86	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
87	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
88	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
89	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
90	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
91	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
92	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
93	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
94	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
95	30	27	25	30	no data	28	34	28	27	25	29	24	22	27	25	25	27
96	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
97	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
98	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
99	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
100	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
101	27	23	24	26	no data	22	32	29	28	23	30	29	24	29	26	27	23
102	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
103	34	21	37	47	33	34	46	39	36	30	36	33	35	47	30	33	26
104	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
105	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
106	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
107	32	33	25	28	28	no data	32	28	31	29	29	28	25	30	28	33	26
108	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
109	32	25	28	35	29	27	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
110	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
111	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
112	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
113	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
114	37	31	30	33	36	31	32	30	35	32	29	31	33	35	31	44	40
115	45	29	43	35	40	33	42	38	40	37	49	37	38	36	35	75	79
116	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
117	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
118	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	04Q3	04Q4	05Q1	05Q2	05Q3	05Q4	06Q1	06q2	06Q3	06Q4	07Q1	07Q2	07Q3	07Q4	08Q1	08Q2	08Q3
119	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
120	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
121	35	35	30	33	34	37	37	33	36	36	34	34	30	35	32	33	31
122	28	25	26	29	26	27	30	28	30	30	29	30	25	24	30	28	27
123	36	29	30	36	34	35	35	33	35	34	30	37	31	33	29	41	32
124	35	31	29	36	35	41	39	28	37	34	37	33	32	42	35	37	33
125	39	31	28	30	33	33	35	27	37	29	25	30	32	29	29	37	29
126	31	27	27	31	34	35	36	29	32	30	38	32	30	31	33	34	32
127	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
128	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
129	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
130	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
131	no data	no data	no data	no data	no data	35	38	37	38	38	30	40	35	32	31	45	34
132	25	29	26	no data	no data	26	31	25	29	26	28	27	30	25	29	27	24
133	39	33	35	36	34	29	33	31	36	30	25	34	35	32	35	34	27
134	43	43	41	40	38	38	38	37	37	36	38	41	36	38	34	35	32
135	20	24	29	39	27	30	40	26	29	29	33	33	25	32	28	no data	22
137	no data	no data	no data	no data	no data	no data	no data	31	29	24	27	28	29	29	26	31	29
138	no data	no data	no data	no data	no data	no data	no data	no data	33	26	27	28	30	34	no data	no data	33
139	no data	no data	no data	no data	no data	no data	no data	no data	31	29	no data	31	24	29	no data	no data	no data
140	no data	no data	no data	no data	no data	no data	no data	no data	27	29	28	30	24	30	no data	no data	no data
141	no data	no data	no data	no data	no data	no data	no data	no data	35	29	26	29	34	31	35	35	33
142	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	31	27	29	no data	no data	no data
143	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	31	35	27
144	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	39	32	27
145	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	33	30	28
146	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	28	26	24
147	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	29	27	24
148	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	28	25	25
149	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
150	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
151	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
152	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
170	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
171	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
172	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
173	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

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Station ID	04Q3	04Q4	05Q1	05Q2	05Q3	05Q4	06Q1	06q2	06Q3	06Q4	07Q1	07Q2	07Q3	07Q4	08Q1	08Q2	08Q3
174	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
181	30	29	26	29	27	28	32	27	32	26	no data	no data	no data	no data	no data	no data	no data
182	42	37	46	31	32	36	36	30	36	32	no data	no data	no data	no data	no data	no data	no data
183	31	28	28	30	30	34	32	30	33	28	no data	no data	no data	no data	no data	no data	no data
185	25	25	31	27	33	28	27	27	28	27	no data	no data	no data	no data	no data	no data	no data
187	30	29	29	30	27	28	31	32	30	31	no data	no data	no data	no data	no data	no data	no data
190	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
191	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
192	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
193	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
194	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
195	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
196	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
197	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
198	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
323	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
361	32	29	27	30	30	27	38	29	31	27	28	30	29	30	33	31	30
401	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
403	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
405	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
408	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
412	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
340	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
601	39	33	36	37	37	35	40	39	41	33	38	39	37	39	44	34	35
602	103	96	93	92	103	86	80	87	105	89	122	73	78	75	76	87	82
603	33	37	32	34	37	34	43	31	37	31	40	35	35	32	37	32	33
604	35	39	32	37	37	34	39	30	44	30	no data	38	35	39	35	34	31
605	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
606	290	329	308	363	349	318	430	346	330	354	420	310	352	311	248	266	273
607	46	42	48	45	47	40	50	43	41	36	39	42	39	41	35	38	36
608	38	35	37	36	39	35	43	35	63	34	34	39	35	35	29	41	35
609	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
610	36	38	38	34	39	35	42	39	40	43	34	39	38	38	28	32	33
611	103	94	111	130	175	155	175	160	153	154	115	105	185	202	171	170	179
612	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
613	65	55	66	68	70	66	77	63	72	58	52	59	55	57	61	58	60
614	45	48	45	49	46	43	53	47	53	41	46	50	49	45	43	49	43

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Station ID	04Q3	04Q4	05Q1	05Q2	05Q3	05Q4	06Q1	06q2	06Q3	06Q4	07Q1	07Q2	07Q3	07Q4	08Q1	08Q2	08Q3
615	36	44	32	35	38	33	44	36	39	37	43	38	no data	33	33	44	38
616	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
617	32	37	34	36	36	36	39	30	32	37	44	35	33	36	33	35	38
618	33	36	34	34	41	36	44	32	39	36	40	38	45	36	48	31	34
619	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
620	34	30	33	35	37	34	39	36	43	34	52	42	45	36	35	38	35
621	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
622	46	48	47	49	52	53	56	52	54	53	52	52	57	49	48	52	52
623	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
624	114	136	123	104	103	109	122	134	122	127	109	85	101	97	85	84	111
625	50	54	52	59	53	53	56	44	54	49	52	46	47	49	39	42	42
626	33	32	31	36	37	37	41	37	38	35	37	36	34	34	32	32	34
627	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
628	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
629	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
630	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
631	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
632	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
633	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
634	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
635	39	47	40	41	45	41	48	44	56	44	45	46	51	50	43	48	45
636	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
637	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
638	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
639	42	44	43	42	45	38	48	42	51	39	43	47	44	38	34	39	37
640	42	64	46	42	39	60	50	38	42	33	38	46	64	55	51	46	41
641	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
642	42	39	42	47	40	36	46	36	45	41	43	37	45	40	41	41	39
643	49	40	40	40	44	39	48	39	42	39	44	39	38	45	41	47	46
644	39	32	34	33	38	34	42	28	41	36	33	43	38	32	32	36	36
645	42	39	39	39	41	38	42	34	42	36	36	37	47	37	32	36	37
646	92	95	89	85	89	89	122	102	109	79	91	77	80	76	62	72	77
647	75	76	80	81	73	58	92	66	64	65	64	91	80	84	76	65	69
648	82	91	90	84	86	78	95	100	88	68	69	66	74	78	66	65	68
649	60	57	61	55	52	46	58	56	55	53	50	54	62	59	53	54	56
650	59	60	62	55	60	48	70	57	59	41	45	45	49	42	35	40	42
651	no data	no data	30	30	34	32	35	30	32	31	32	33	no data	29	28	33	31

LANL quarterl

Station ID	04Q3	04Q4	05Q1	05Q2	05Q3	05Q4	06Q1	06q2	06Q3	06Q4	07Q1	07Q2	07Q3	07Q4	08Q1	08Q2	08Q3
652	no data	no data	33	30	32	33	41	33	38	33	37	36	34	34	31	33	35

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Station ID	08Q4	09Q1	09Q2	09Q3	09Q4	10Q1	10Q2	10Q3	10Q4	11Q1	11Q2	11Q3	11Q4	12Q1	12Q2	12Q3	12Q4
1	23	23	27	21	26	25	21	20	27	19	22	22	23	24	26	22	19
5	31	28	27	no data	35	23	27	25	32	22	22	25	26	28	29	23	25
7	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
8	33	30	33	31	40	28	33	37	42	28	33	34	35	29	40	34	32
9	27	26	26	31	27	30	26	33	33	27	31	28	35	26	29	33	31
10	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
11	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
12	30	26	34	28	30	25	36	34	33	26	25	28	27	27	33	29	35
13	32	38	27	24	27	29	26	30	35	29	28	29	27	23	24	28	27
14	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
15	34	32	29	30	40	33	28	31	41	38	34	33	36	32	36	34	36
16	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
17	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
18	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
19	34	34	37	33	36	32	34	30	38	32	34	29	31	34	32	38	31
20	36	45	38	34	41	39	36	37	41	35	36	36	39	33	37	35	36
21	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
22	29	29	37	31	36	31	32	28	29	36	32	39	34	27	31	29	27
23	28	29	36	33	33	26	28	30	43	26	24	28	30	25	27	26	28
24	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
25	28	25	29	30	25	27	29	29	30	31	28	28	32	24	32	33	35
26	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
30	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
31	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
32	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
33	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
34	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
35	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
36	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
37	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
40	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
41	32	31	30	26	31	30	30	33	34	28	30	34	33	30	34	33	31
42	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	08Q4	09Q1	09Q2	09Q3	09Q4	10Q1	10Q2	10Q3	10Q4	11Q1	11Q2	11Q3	11Q4	12Q1	12Q2	12Q3	12Q4
43	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
44	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
45	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
46	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
47	28	31	32	27	34	27	28	32	37	33	30	36	31	25	37	29	31
48	31	32	33	31	34	26	29	37	34	25	29	30	32	31	32	29	37
49	24	27	31	24	30	26	21	28	34	24	24	26	30	28	25	24	33
50	27	29	29	24	30	32	23	31	32	27	24	27	25	25	28	26	28
51	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
53	28	21	21	23	25	23	33	23	26	21	23	22	26	23	29	27	28
55	32	28	29	27	28	29	22	25	33	23	28	33	26	23	28	29	30
56	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
57	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
58	30	31	34	34	30	38	33	37	35	34	35	37	36	33	34	no data	33
59	35	29	37	33	41	34	33	40	40	33	35	39	39	30	36	36	36
60	28	31	29	27	31	26	24	26	32	28	27	25	29	22	27	24	24
61	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
62	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
63	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
64	29	31	35	29	38	33	30	31	30	24	26	28	28	24	28	28	29
65	35	33	36	28	35	33	42	35	35	31	31	32	29	31	38	31	41
66	27	25	31	29	29	26	33	34	36	31	33	31	31	31	31	29	29
67	no data	28	33	31	34	26	31	33	35	29	28	35	26	26	28	31	30
68	32	28	33	27	30	27	30	33	33	35	29	28	32	28	34	26	26
69	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
70	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
71	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
72	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
73	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
74	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
75	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
76	37	26	31	31	29	26	31	33	31	30	28	33	32	25	32	32	28
77	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
78	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
79	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
80	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
81	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	08Q4	09Q1	09Q2	09Q3	09Q4	10Q1	10Q2	10Q3	10Q4	11Q1	11Q2	11Q3	11Q4	12Q1	12Q2	12Q3	12Q4
82	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
83	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
84	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
85	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
86	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
87	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
88	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
89	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
90	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
91	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
92	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
93	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
94	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
95	27	25	28	26	26	22	39	27	27	23	24	24	27	23	25	26	24
96	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
97	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
98	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
99	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
100	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
101	25	31	28	25	29	20	24	29	26	20	24	24	25	22	24	26	25
102	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
103	35	33	32	33	30	38	28	29	37	32	32	32	30	32	35	30	32
104	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
105	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
106	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
107	29	30	26	25	30	24	29	28	32	23	24	29	28	25	26	25	28
108	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
109	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
110	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
111	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
112	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
113	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
114	40	33	43	40	40	33	48	60	49	28	43	39	39	34	46	43	33
115	54	44	73	61	59	43	81	162	77	37	81	57	40	58	76	66	49
116	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
117	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
118	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	08Q4	09Q1	09Q2	09Q3	09Q4	10Q1	10Q2	10Q3	10Q4	11Q1	11Q2	11Q3	11Q4	12Q1	12Q2	12Q3	12Q4
119	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
120	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
121	29	34	34	29	37	28	33	34	41	28	30	32	34	29	39	31	31
122	27	22	27	28	31	27	26	26	28	27	24	27	33	25	34	27	33
123	30	33	36	32	37	35	38	32	42	29	31	31	34	30	31	32	49
124	33	36	37	36	43	32	38	34	36	33	29	28	31	26	24	27	31
125	35	32	31	36	33	28	31	30	37	28	30	32	31	34	34	30	33
126	41	28	32	29	37	28	36	34	35	29	28	30	28	31	31	33	32
127	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
128	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
129	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
130	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
131	28	35	39	39	35	27	34	37	no data	37	36	35	31	30	35	36	32
132	26	30	26	24	27	30	22	23	31	24	23	29	26	24	23	23	25
133	31	25	32	27	29	35	27	28	27	25	31	26	33	27	31	28	28
134	35	32	38	41	37	37	42	38	37	35	36	38	37	36	40	41	44
135	44	41	30	28	28	30	32	23	34	29	28	27	27	29	30	29	24
137	25	25	33	31	29	23	28	32	35	34	30	30	33	24	29	26	31
138	31	36	32	26	30	39	31	32	34	30	27	30	31	27	32	27	26
139	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
140	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
141	30	29	32	36	43	32	28	31	32	31	27	32	32	35	28	27	29
142	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
143	29	25	30	31	36	29	27	29	no data	34	25	29	no data	no data	no data	no data	no data
144	36	30	35	26	29	26	25	29	34	27	25	31	no data	no data	no data	no data	no data
145	29	27	31	29	34	31	26	27	no data	25	no data	32	no data	no data	no data	no data	no data
146	29	25	24	21	30	25	20	19	28	23	23	23	26	23	27	24	22
147	23	28	23	24	27	25	25	26	29	25	20	22	25	24	23	27	27
148	22	25	24	25	23	29	22	22	34	25	27	27	31	28	29	24	28
149	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
150	no data	38	41	38	28	31	36	34	no data	39	31	35	32	34	32	33	36
151	no data	36	38	39	27	33	30	33	36	31	27	35	32	31	39	31	37
152	no data	34	31	34	27	21	32	26	34	30	24	35	31	29	33	25	25
170	no data	no data	no data	no data	no data	33	24	28.944	28.501	30	28	28	28	22	31	27	26
171	no data	no data	no data	no data	no data	31	30	34.197	36.473	30	33	35	34	29	36	35	30
172	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
173	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	08Q4	09Q1	09Q2	09Q3	09Q4	10Q1	10Q2	10Q3	10Q4	11Q1	11Q2	11Q3	11Q4	12Q1	12Q2	12Q3	12Q4
174	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
181	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
182	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
183	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
185	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
187	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
190	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	20
191	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
192	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
193	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
194	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
195	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
196	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
197	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
198	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
323	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
361	26	30	40	31	36	25	24	32	30	23	29	30	34	31	32	26	32
401	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
403	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
405	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
408	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
412	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
340	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
601	37	33	37	42	49	49	57	59	61	64	45	49	41	46	41	41	38
602	93	75	78	71	81	82	109	107	102	99	104	101	69	71	64	62	44
603	34	37	33	37	38	33	35	34	36	41	34	31	35	29	29	31	35
604	36	36	37	31	36	28	37	32	31	42	30	29	23	30	31	31	28
605	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
606	296	339	430	408	544	455	453	305	188	51	32	32	30	28	31	34	28
607	32	38	37	34	39	31	40	35	37	37	37	32	36	34	42	37	30
608	33	37	33	29	36	27	34	34	36	36	32	32	32	37	34	36	35
609	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
610	35	34	30	33	35	30	46	34	39	39	38	39	32	35	36	33	35
611	147	161	188	162	188	159	185	200	188	193	no data	173	187	149	126	100	111
612	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
613	59	69	57	72	84	80	84	84	95	115	98	113	118	82	89	76	67
614	45	53	45	44	46	41	49	48	51	53	46	50	41	40	46	45	44

LANL quarterl

Station ID	08Q4	09Q1	09Q2	09Q3	09Q4	10Q1	10Q2	10Q3	10Q4	11Q1	11Q2	11Q3	11Q4	12Q1	12Q2	12Q3	12Q4
615	39	37	38	31	42	31	34	37	35	38	44	35	30	37	38	34	33
616	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
617	41	32	33	34	37	31	41	36	36	38	33	35	35	34	33	33	40
618	30	34	28	28	36	36	37	38	40	37	36	39	31	34	37	43	44
619	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
620	32	35	34	34	42	32	37	36	35	41	33	36	38	31	30	30	36
621	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
622	49	54	49	44	50	45	56	52	63	53	54	51	43	42	43	42	43
623	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
624	80	119	104	96	114	112	127	107	71	84	89	97	85	103	77	70	75
625	40	45	43	48	49	51	62	56	56	59	47	55	41	48	47	42	37
626	33	31	32	32	40	43	52	49	50	53	45	43	34	42	40	33	32
627	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
628	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
629	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
630	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
631	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
632	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
633	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
634	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
635	47	45	50	40	44	40	43	44	49	47	49	47	46	42	44	38	37
636	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
637	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
638	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
639	37	42	41	35	46	34	39	39	43	37	33	39	36	35	38	36	39
640	45	50	49	52	70	77	76	65	76	89	73	69	80	52	50	48	42
641	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
642	48	44	39	34	38	39	42	40	41	45	38	36	33	40	42	39	38
643	43	42	42	38	36	43	42	41	42	46	40	42	35	39	35	39	43
644	38	29	36	29	36	29	36	37	40	42	39	37	37	34	41	39	35
645	33	38	36	38	38	32	43	37	44	42	40	39	35	37	39	44	40
646	86	108	91	68	84	77	72	55	40	39	35	30	26	32	31	26	28
647	71	77	91	73	77	76	71	56	47	34	32	36	27	32	34	32	53
648	70	67	60	46	47	47	57	41	37	35	31	32	27	34	28	27	25
649	46	45	42	35	44	42	45	37	33	26	28	29	24	25	26	34	26
650	40	51	44	39	45	36	45	44	44	43	44	49	47	44	41	45	50
651	30	37	31	27	28	26	38	31	40	45	32	30	27	30	31	33	29

LANL quarterl

Station ID	08Q4	09Q1	09Q2	09Q3	09Q4	10Q1	10Q2	10Q3	10Q4	11Q1	11Q2	11Q3	11Q4	12Q1	12Q2	12Q3	12Q4
652	30	40	34	36	34	28	34	35	38	39	30	34	30	33	33	31	38

LANL quarterl

Station ID	13Q1	13Q2	13Q3	13Q4	14Q1	14Q2	14Q3	14Q4	15Q1	15Q2	15Q3	15Q4	16Q1	16Q2	16Q3	16Q4	17Q1
1	28	24	26	25	25	27	23	28	23	22	21	23	26	22	25	24	25
5	23	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
7	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
8	35	35	35	34	36	36	34	33	28	31	33	30	28	35	33	37	33
9	30	27	31	35	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
10	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
11	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
12	31	31	30	30	30	33	29	29	30	28	31	28	26	30	27	32	30
13	32	27	33	27	29	30	32	25	25	28	27	31	22	29	25	27	28
14	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
15	47	35	35	34	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
16	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
17	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
18	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
19	43	39	37	43	35	34	36	36	33	33	31	27	33	31	36	32	31
20	41	36	37	40	38	39	43	36	29	34	34	38	32	40	34	41	34
21	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
22	30	30	32	29	30	31	33	26	23	26	25	26	25	30	29	34	28
23	31	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
24	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
25	28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
26	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
30	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
31	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
32	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
33	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
34	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
35	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
36	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
37	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
40	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
41	31	32	34	34	32	35	32	30	29	29	31	33	31	32	30	34	33
42	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	13Q1	13Q2	13Q3	13Q4	14Q1	14Q2	14Q3	14Q4	15Q1	15Q2	15Q3	15Q4	16Q1	16Q2	16Q3	16Q4	17Q1
43	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
44	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
45	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
46	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
47	44	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
48	31	29	30	31	32	29	36	27	27	28	30	30	31	30	27	35	27
49	31	29	25	27	28	27	29	21	20	25	24	23	24	29	26	27	25
50	22	33	22	29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
51	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
53	25	27	29	23	29	29	23	33	21	25	38	18	24	24	23	22	24
55	29	30	28	25	29	25	28	26	20	25	26	26	26	27	25	31	27
56	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
57	no data	33	33	30	34	31	30	29	28	30	32	27	28	32	31	32	29
58	35	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
59	37	38	36	43	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
60	22	28	30	29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
61	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
62	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
63	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
64	38	32	35	34	28	30	29	31	32	32	35	30	29	33	34	33	28
65	33	35	36	36	33	38	35	36	33	31	32	29	30	31	38	31	31
66	38	31	33	29	33	33	36	32	25	30	30	27	29	30	25	33	29
67	39	34	32	29	34	36	32	28	27	30	32	27	27	31	27	33	30
68	33	30	34	29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
69	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
70	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
71	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
72	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
73	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
74	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
75	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
76	38	30	31	28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
77	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
78	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
79	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
80	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
81	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	13Q1	13Q2	13Q3	13Q4	14Q1	14Q2	14Q3	14Q4	15Q1	15Q2	15Q3	15Q4	16Q1	16Q2	16Q3	16Q4	17Q1
82	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
83	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
84	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
85	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
86	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
87	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
88	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
89	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
90	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
91	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
92	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
93	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
94	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
95	29	29	25	28	31	32	27	27	23	25	24	26	22	25	25	27	28
96	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
97	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
98	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
99	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
100	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
101	20	29	24	25	27	28	24	27	23	24	27	26	23	26	22	25	23
102	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
103	34	37	38	38	32	34	36	34	31	29	39	26	30	32	29	33	31
104	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
105	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
106	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
107	30	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
108	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
109	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
110	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
111	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
112	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
113	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
114	63	51	52	43	41	51	35	43	30	32	31	28	29	33	35	31	30
115	73	100	89	61	63	85	53	60	34	46	45	41	39	46	40	44	36
116	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
117	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
118	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	13Q1	13Q2	13Q3	13Q4	14Q1	14Q2	14Q3	14Q4	15Q1	15Q2	15Q3	15Q4	16Q1	16Q2	16Q3	16Q4	17Q1
119	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
120	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
121	35	34	40	34	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
122	24	29	30	29	30	29	29	22	26	28	25	26	26	29	27	no data	29
123	31	37	36	41	34	38	32	29	32	28	35	30	32	28	32	35	31
124	47	28	29	30	29	30	30	27	29	28	28	26	24	25	29	25	25
125	40	35	30	32	31	30	35	31	29	29	31	27	29	27	36	33	31
126	34	32	34	30	35	34	31	33	32	31	30	33	27	28	30	32	30
127	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
128	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
129	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
130	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
131	42	35	38	36	37	42	29	37	32	33	38	36	30	35	34	37	33
132	34	29	26	30	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
133	38	39	35	30	32	33	30	37	30	23	29	21	22	26	26	28	25
134	37	39	38	39	39	37	41	31	33	32	31	28	29	35	27	35	38
135	29	33	29	31	30	31	35	27	25	27	35	24	27	32	29	34	26
137	32	33	31	29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
138	36	32	27	29	32	31	29	25	34	28	28	25	27	30	31	28	26
139	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
140	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
141	22	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
142	no data	no data	no data	no data	no data	no data	no data	no data	no data	33	34	34	30	33	31	39	32
143	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
144	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
145	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
146	28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
147	29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
148	28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
149	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
150	32	38	40	38	36	36	36	34	35	29	43	28	31	41	30	34	32
151	42	40	40	36	36	37	31	35	34	30	46	29	28	35	30	37	31
152	37	31	37	35	29	29	32	34	30	27	32	26	27	31	28	32	29
170	38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
171	34	35	31	36	39	38	36	33	32	32	31	29	28	33	27	30	31
172	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
173	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

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Station ID	13Q1	13Q2	13Q3	13Q4	14Q1	14Q2	14Q3	14Q4	15Q1	15Q2	15Q3	15Q4	16Q1	16Q2	16Q3	16Q4	17Q1
174	no data	no data	no data	no data	no data	no data	no data	no data	no data	29	29	25	23	28	27	30	29
181	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
182	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
183	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
185	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
187	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
190	22	22	23	28	26	26	27	26	24	24	35	18	20	22	23	25	20
191	no data	no data	no data	no data	no data	no data	no data	no data	29	28	32	27	29	27	30	31	38
192	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	32	29	26	31	27	30	29
193	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	31	28	27	34	33	33	30
194	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	27	28	26	31	34	33	29
195	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	32	34	28	33	33	30	33
196	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	34	24	27	29	30	28	27
197	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	36	30	28	27	30	34	32
198	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	29	32	29	34	30	31	29
323	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
361	26	33	34	32	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
401	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
403	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
405	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
408	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
412	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
340	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
601	44	34	40	29	32	36	34	35	39	32	38	27	32	33	36	38	33
602	40	45	37	36	37	39	37	37	37	34	41	33	35	33	35	44	35
603	33	30	35	29	28	39	35	29	32	30	32	28	30	30	28	34	32
604	33	28	29	29	34	30	32	36	33	32	29	29	30	29	30	31	29
605	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
606	42	28	25	31	36	26	33	32	38	29	31	28	32	32	35	29	32
607	42	35	30	29	31	29	36	28	31	30	35	26	31	29	33	31	32
608	31	36	39	36	32	30	31	28	37	27	31	23	34	26	39	29	34
609	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
610	56	31	33	30	31	no data	28	29	36	27	27	24	33	26	32	28	28
611	105	59	50	64	49	47	51	43	45	39	43	44	46	43	51	42	39
612	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
613	66	61	74	63	54	48	47	47	49	48	47	41	40	39	38	36	44
614	52	39	43	37	42	39	46	34	41	38	41	34	37	37	46	45	38

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Station ID	13Q1	13Q2	13Q3	13Q4	14Q1	14Q2	14Q3	14Q4	15Q1	15Q2	15Q3	15Q4	16Q1	16Q2	16Q3	16Q4	17Q1
615	45	34	34	34	33	37	37	31	33	33	36	29	36	32	34	34	38
616	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
617	42	32	51	32	37	35	38	35	34	32	37	30	33	30	38	34	38
618	70	49	39	44	49	144	197	190	182	149	147	137	122	115	116	118	102
619	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
620	46	36	38	32	34	34	39	39	34	36	39	30	37	29	33	35	36
621	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
622	33	62	39	42	39	40	39	37	48	36	40	36	39	35	42	35	41
623	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
624	89	79	87	76	63	43	41	34	35	37	42	35	39	35	39	33	41
625	49	40	46	38	41	36	37	32	37	33	39	31	34	35	40	33	35
626	36	31	31	33	34	32	35	33	29	33	30	26	33	27	31	27	32
627	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
628	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
629	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
630	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
631	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
632	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
633	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
634	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
635	41	34	44	36	34	32	30	32	34	30	29	29	34	31	39	30	37
636	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
637	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
638	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
639	37	40	34	35	35	33	39	28	28	32	34	29	31	30	33	33	no data
640	44	40	42	37	40	35	43	35	42	32	34	30	32	27	34	29	31
641	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
642	45	37	49	36	37	42	39	37	42	39	41	33	35	35	45	45	40
643	62	43	51	41	40	44	44	40	36	44	39	39	39	40	45	39	40
644	49	35	48	35	36	41	37	35	34	35	35	31	34	34	40	41	35
645	39	39	37	37	39	41	40	42	41	39	42	32	39	37	40	43	41
646	31	31	23	32	33	32	29	29	29	29	33	25	29	30	36	32	29
647	no data	30	33	30	33	33	38	33	31	30	34	29	30	30	34	33	31
648	32	28	29	35	38	32	33	30	33	29	31	26	33	29	33	28	33
649	27	27	32	26	28	25	31	26	34	24	26	20	29	24	28	23	30
650	43	48	37	43	38	31	31	28	26	28	35	24	30	28	35	28	31
651	39	29	31	30	30	30	31	33	31	28	34	27	30	29	35	35	30

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Station ID	13Q1	13Q2	13Q3	13Q4	14Q1	14Q2	14Q3	14Q4	15Q1	15Q2	15Q3	15Q4	16Q1	16Q2	16Q3	16Q4	17Q1
652	43	32	36	34	35	34	33	30	30	32	38	28	32	33	35	35	31

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Station ID	17Q2	17Q3	17Q4	18Q1	18Q2	18Q3	18Q4	19Q1	19Q2	19Q3	19Q4	20Q1	20Q2	20Q3	20Q4
1	29	24	27	27	29	27	31	26	19	27	28	24	28	27	28
5	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
7	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
8	38	36	35	no data	35	35	38	31	36	39	36	38	36	37	37
9	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	33	28	31	31	33
10	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
11	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
12	33	32	29	33	34	32	32	27	28	33	32	29	27	32	33
13	31	28	26	28	28	31	34	28	24	28	32	31	25	35	30
14	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
15	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
16	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
17	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
18	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
19	34	37	37	32	42	30	36	32	39	36	38	33	36	33	37
20	37	40	37	43	46	41	41	35	39	40	40	38	35	41	42
21	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
22	28	28	28	34	29	31	32	27	29	29	31	25	32	30	35
23	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
24	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
25	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
26	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
30	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
31	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
32	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
33	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
34	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
35	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
36	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
37	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
40	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
41	34	34	32	40	35	33	35	31	33	34	33	32	33	34	36
42	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

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Station ID	17Q2	17Q3	17Q4	18Q1	18Q2	18Q3	18Q4	19Q1	19Q2	19Q3	19Q4	20Q1	20Q2	20Q3	20Q4
43	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
44	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
45	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
46	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
47	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
48	30	32	37	33	32	30	38	27	30	34	32	33	28	29	33
49	32	25	27	40	26	28	28	26	24	28	29	32	25	28	32
50	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
51	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
53	25	26	27	28	32	27	31	26	26	28	30	26	26	27	30
55	26	30	24	27	31	27	29	28	26	29	30	30	27	26	30
56	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
57	34	34	37	31	34	34	33	27	32	34	30	31	31	34	39
58	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
59	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
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63	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
64	33	31	35	30	38	31	31	31	33	34	34	35	30	32	36
65	35	32	38	53	41	31	32	30	29	35	34	28	34	34	36
66	34	32	29	32	31	28	37	31	28	33	32	32	37	32	31
67	38	31	32	33	28	32	31	29	34	32	36	30	33	35	34
68	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
69	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
70	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
71	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
72	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
73	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
74	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
75	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
76	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
77	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
78	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
79	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
80	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
81	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

LANL quarterl

Station ID	17Q2	17Q3	17Q4	18Q1	18Q2	18Q3	18Q4	19Q1	19Q2	19Q3	19Q4	20Q1	20Q2	20Q3	20Q4
82	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
83	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
84	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
85	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
86	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
87	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
88	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
89	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
90	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
91	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
92	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
93	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
94	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
95	27	27	28	32	28	27	38	25	26	29	32	24	31	26	30
96	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
97	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
98	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
99	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
100	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
101	28	24	29	30	28	27	30	24	22	27	26	23	27	31	29
102	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
103	33	36	34	38	36	37	36	28	32	42	38	30	36	33	35
104	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
105	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
106	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
107	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
108	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
109	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
110	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
111	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
112	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
113	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
114	33	34	33	40	36	33	36	33	32	38	34	30	37	30	42
115	47	41	40	40	44	45	40	37	37	45	45	36	41	40	44
116	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
117	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
118	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

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Station ID	17Q2	17Q3	17Q4	18Q1	18Q2	18Q3	18Q4	19Q1	19Q2	19Q3	19Q4	20Q1	20Q2	20Q3	20Q4
119	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
120	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
121	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
122	34	31	31	34	27	32	33	27	25	31	28	30	30	28	37
123	36	36	39	27	36	35	34	29	33	39	34	27	37	30	36
124	28	29	27	28	33	29	34	27	26	30	30	28	25	27	33
125	33	32	35	31	37	38	33	32	41	36	32	25	32	32	35
126	30	34	28	36	30	36	37	29	28	34	34	34	37	33	32
127	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
128	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
129	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
130	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
131	33	42	36	38	39	41	38	29	34	35	34	33	38	39	43
132	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
133	27	33	24	34	29	29	23	26	29	40	29	30	30	31	34
134	34	37	36	36	33	34	31	29	35	44	36	34	37	37	39
135	32	31	31	29	32	30	33	28	29	30	33	27	30	29	34
137	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
138	31	30	34	30	33	32	31	28	30	33	33	29	30	26	36
139	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
140	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
141	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
142	32	33	34	36	38	32	33	33	33	33	31	29	32	37	36
143	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
144	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
145	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
146	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	27	31	36
147	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
148	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
149	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
150	39	41	35	40	45	36	30	27	34	40	36	36	34	35	40
151	36	37	38	34	40	37	26	27	35	36	37	34	34	33	37
152	35	34	31	39	32	32	24	26	32	35	33	30	31	30	34
170	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
171	34	35	33	42	30	34	42	27	29	37	33	30	37	32	32
172	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
173	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

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Station ID	17Q2	17Q3	17Q4	18Q1	18Q2	18Q3	18Q4	19Q1	19Q2	19Q3	19Q4	20Q1	20Q2	20Q3	20Q4
174	30	29	29	28	28	30	30	26	29	30	30	30	28	29	34
181	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
182	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
183	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
185	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
187	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
190	25	26	25	19	28	22	27	25	23	26	25	26	26	23	27
191	31	37	33	34	33	33	35	32	34	36	31	31	33	31	38
192	30	38	35	29	33	32	36	27	31	34	35	31	32	34	38
193	32	34	31	37	no data	40	35	29	32	37	38	33	31	35	39
194	35	33	34	35	36	32	35	29	27	35	36	36	32	31	34
195	40	38	35	36	37	34	no data	29	32	35	35	31	35	33	36
196	37	28	32	44	33	29	34	no data	30	34	31	33	31	33	36
197	35	34	32	33	35	34	35	29	32	34	36	28	31	32	38
198	32	30	31	33	38	32	35	27	39	34	36	33	30	29	36
323	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
361	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
401	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
403	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
405	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
408	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
412	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
340	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	30	32	32	32	39
601	37	36	34	39	41	36	37	31	45	35	38	32	33	38	39
602	39	38	38	51	49	36	41	40	48	40	44	40	37	38	51
603	33	32	35	37	37	35	32	27	38	35	31	35	30	31	35
604	32	35	31	35	39	33	31	29	38	34	30	30	34	34	36
605	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
606	38	32	33	36	40	32	35	33	33	31	36	26	31	30	35
607	36	37	38	30	42	34	33	29	37	35	33	33	31	33	37
608	34	32	30	32	43	31	34	32	37	34	39	30	32	38	38
609	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
610	35	32	36	36	35	41	34	40	36	33	33	35	31	35	37
611	45	52	45	52	57	45	51	41	49	37	35	34	32	33	30
612	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
613	46	42	44	45	48	43	43	43	42	41	38	34	35	38	39
614	42	43	49	50	50	40	45	41	41	43	43	40	39	38	41

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Station ID	17Q2	17Q3	17Q4	18Q1	18Q2	18Q3	18Q4	19Q1	19Q2	19Q3	19Q4	20Q1	20Q2	20Q3	20Q4
615	38	39	37	42	43	38	43	36	45	40	38	36	36	38	41
616	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
617	39	37	35	39	41	34	36	32	38	39	38	37	36	38	40
618	107	102	88	97	86	78	79	73	73	64	64	61	62	56	56
619	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
620	38	40	40	37	42	40	35	33	36	35	37	32	32	40	37
621	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
622	41	42	43	46	48	42	41	39	42	43	42	38	42	42	47
623	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
624	44	47	45	54	54	45	46	50	49	52	76	91	96	80	79
625	38	41	44	49	53	50	51	46	49	55	47	55	46	51	44
626	40	34	36	37	38	34	36	39	37	33	36	35	30	34	38
627	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
628	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
629	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
630	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
631	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
632	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
633	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
634	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
635	36	36	34	47	42	35	33	38	32	34	31	31	28	31	37
636	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
637	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
638	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
639	39	37	37	38	40	37	36	30	41	38	38	30	36	36	35
640	38	39	35	32	44	34	38	36	31	39	30	28	32	35	31
641	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
642	38	42	43	54	48	41	42	45	40	53	44	34	29	29	32
643	43	47	42	47	50	49	40	42	36	57	50	32	29	32	34
644	43	35	35	38	48	37	39	35	35	45	38	35	31	33	34
645	43	42	41	42	52	42	44	44	42	45	44	31	33	32	36
646	31	34	34	38	40	32	32	30	34	34	31	28	31	33	31
647	38	34	38	38	39	36	35	30	34	39	37	32	34	34	34
648	34	33	36	31	37	19	32	32	35	34	35	33	32	37	34
649	28	31	28	29	30	24	26	26	25	28	28	30	25	30	29
650	36	32	34	37	41	31	37	32	40	34	34	30	28	35	43
651	34	40	34	45	40	31	33	32	41	38	38	34	34	32	40

LANL quarterl

Station ID	17Q2	17Q3	17Q4	18Q1	18Q2	18Q3	18Q4	19Q1	19Q2	19Q3	19Q4	20Q1	20Q2	20Q3	20Q4
652	38	40	36	38	40	39	34	31	35	37	37	37	35	37	35

LANL quarterly neutron radiation measurements at environmental air monitoring stations during 1999 through 2020. Results are reported in millirem.

Station ID	Station Description	99Q1	99Q2	99Q3	99Q4	00Q1	00Q2	00Q3	00Q4
19	TA53W	no data	no data	no data	no data	no data	no data	no data	no data
22	TA18,PM1,albedo#4	1	1	2	2	3	1	0	1
28	TA18 albedo#6	2	1	4	3	2	1	0	3
57	background	no data	no data	no data	no data	no data	no data	no data	no data
64	TA53N	no data	no data	no data	no data	no data	no data	no data	no data
65	TA53N	no data	no data	no data	no data	no data	no data	no data	no data
66	EastGate	no data	no data	no data	no data	no data	no data	no data	no data
101	SantaFe	no data	no data	no data	no data	no data	no data	no data	no data
103	Santa Clara Arts&Crafts	no data	no data	no data	no data	no data	no data	no data	no data
114	TA53E	no data	no data	no data	no data	no data	no data	no data	no data
115	TA53NE	no data	no data	no data	no data	no data	no data	no data	no data
123	TA53SW	no data	no data	no data	no data	no data	no data	no data	no data
124	TA53S	no data	no data	no data	no data	no data	no data	no data	no data
125	TA53tower	no data	no data	no data	no data	no data	no data	no data	no data
133	TA53SE	no data	no data	no data	no data	no data	no data	no data	no data
134	Buey	no data	no data	no data	no data	no data	no data	no data	no data
135	Santa Clara Day School	no data	no data	no data	no data	no data	no data	no data	no data
150	Santa Clara N	no data	no data	no data	no data	no data	no data	no data	no data
151	Santa Clara Puye	no data	no data	no data	no data	no data	no data	no data	no data
152	Santa Clara S	no data	no data	no data	no data	no data	no data	no data	no data
181	Kappa Site-Newnet,was old Albedo #1	3	1	4	2	1	0	1	2
182	TA-36 entrance, near HSR4 Cal lab	1	3	5	4	1	1	2	1
183	TA-18 parking lot, small ped gate, Albedo#3	13	2	14	5	1	1	5	13
185	TA-51 E side of main entrance,Albedo# 5	1	1	1	2	1	1	0	0
187	TA-18, entrance from Pajarito Rd	5	1	7	3	1	1	2	5
190	Santa Clara Convenience Store (gas station)	no data	no data	no data	no data	no data	no data	no data	no data
601	NW corner	no data	no data	no data	no data	no data	no data	no data	no data
602	N of bldg 283	no data	no data	no data	no data	no data	no data	no data	no data
603	N of bldgs 2,11	no data	no data	no data	no data	no data	no data	no data	no data
604	N of bldg 281	no data	no data	no data	no data	no data	no data	no data	no data
606	N of bldg 375	no data	no data	no data	no data	no data	no data	no data	no data
607	N of bldg 412	no data	no data	no data	no data	no data	no data	no data	no data

Station ID	Station Description	99Q1	99Q2	99Q3	99Q4	00Q1	00Q2	00Q3	00Q4
608	NE corner	no data	no data	no data	no data	no data	no data	no data	no data
610	E near gate	no data	no data	no data	no data	no data	no data	no data	no data
611	E of bldg 231	no data	no data	no data	no data	no data	no data	no data	no data
613	S of bldg 229	no data	no data	no data	no data	no data	no data	no data	no data
614	near bldg 230	no data	no data	no data	no data	no data	no data	no data	no data
615	S fence (SSE)	no data	no data	no data	no data	no data	no data	no data	no data
617	S fence	no data	no data	no data	no data	no data	no data	no data	no data
618	S fence	no data	no data	no data	no data	no data	no data	no data	no data
620	S fence (SSW)	no data	no data	no data	no data	no data	no data	no data	no data
622	S of bldg 153	no data	no data	no data	no data	no data	no data	no data	no data
624	SW of bldg 49	no data	no data	no data	no data	no data	no data	no data	no data
625	W of bldg 49	no data	no data	no data	no data	no data	no data	no data	no data
626	W entrance	no data	no data	no data	no data	no data	no data	no data	no data
635	E outside gate	no data	no data	no data	no data	no data	no data	no data	no data
639	NE of bldg 48	no data	no data	no data	no data	no data	no data	no data	no data
640	S of bldg 229	no data	no data	no data	no data	no data	no data	no data	no data
642	San I boundary N	no data	no data	no data	no data	no data	no data	no data	no data
643	San I boundary W	no data	no data	no data	no data	no data	no data	no data	no data
644	San I boundary NE	no data	no data	no data	no data	no data	no data	no data	no data
645	San I boundary E	no data	no data	no data	no data	no data	no data	no data	no data
646	bldg 375 NW	no data	no data	no data	no data	no data	no data	no data	no data
647	bldg 375 NE	no data	no data	no data	no data	no data	no data	no data	no data
648	bldg 375 SW	no data	no data	no data	no data	no data	no data	no data	no data
649	bldg 375 SE	no data	no data	no data	no data	no data	no data	no data	no data
650	bldg 48 N	no data	no data	no data	no data	no data	no data	no data	no data
651	Pajarito Rd W	no data	no data	no data	no data	no data	no data	no data	no data
652	Pajarito Rd E	no data	no data	no data	no data	no data	no data	no data	no data

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Station ID	01Q1	01Q2	01Q3	01Q4	02Q1	02Q2	02Q3	02Q4	03Q1	03Q2	03Q3	03Q4
19	no data	no data	no data	no data	1	1	0	0	1	0	1	0
22	0	0	1	1	1	1	0	0	0	12	1	3
28	3	1	7	3	no data	no data	no data	no data	no data	no data	no data	no data
57	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
64	no data	no data	no data	no data	1	1	0	1	1	0	2	1
65	no data	no data	no data	no data	1	1	2	2	1	1	2	0
66	no data	no data	no data	no data	1	1	0	1	1	0	1	0
101	no data	no data	no data	no data	0	1	0	0	0	0	0	1
103	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
114	no data	no data	no data	no data	1	1	0	1	0	0	0	1
115	no data	no data	no data	no data	1	1	0	0	0	0	1	1
123	no data	no data	no data	no data	0	1	0	1	0	0	1	0
124	no data	no data	no data	no data	0	1	3	3	1	0	3	3
125	no data	no data	no data	no data	0	1	0	0	0	0	1	1
133	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
134	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
135	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
150	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
151	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
152	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
181	3	2	8	3	4	3	2	3	5	6	10	4
182	0	0	1	9	4	1	3	5	16	11	13	5
183	14	8	33	11	16	10	5	10	19	24	40	15
185	0	0	1	1	1	1	0	1	1	0	0	0
187	5	3	13	5	7	4	2	4	0	11	16	6
190	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
601	no data	no data	no data	no data	8	9	10	11	12	21	14	26
602	no data	no data	no data	no data	53	no data	72	80	104	168	195	207
603	no data	no data	no data	no data	16	33	19	18	28	32	no data	33
604	no data	no data	no data	no data	22	25	27	23	14	38	33	36
606	no data	no data	no data	no data	311	351	383	294	379	594	293	474
607	no data	no data	no data	no data	41	42	40	33	34	35	52	56

Station ID	01Q1	01Q2	01Q3	01Q4	02Q1	02Q2	02Q3	02Q4	03Q1	03Q2	03Q3	03Q4
608	no data	no data	no data	no data	16	19	23	12	18	23	31	31
610	no data	no data	no data	no data	38	35	34	26	41	28	40	47
611	no data	no data	no data	no data	79	77	88	86	81	95	98	102
613	no data	no data	no data	no data	48	52	52	41	43	40	48	46
614	no data	no data	no data	no data	39	40	44	31	38	37	44	48
615	no data	no data	no data	no data	20	15	16	10	12	13	15	16
617	no data	no data	no data	no data	12	13	12	8	14	15	13	17
618	no data	no data	no data	no data	13	16	15	12	17	23	15	23
620	no data	no data	no data	no data	8	7	12	11	12	13	16	23
622	no data	no data	no data	no data	28	26	35	41	45	65	83	68
624	no data	no data	no data	no data	39	50	53	61	65	88	94	110
625	no data	no data	no data	no data	19	21	33	29	36	50	52	51
626	no data	no data	no data	no data	8	10	11	11	15	24	25	26
635	no data	no data	no data	no data	24	28	31	22	28	33	36	34
639	no data	no data	no data	no data	30	30	32	20	24	19	44	30
640	no data	no data	no data	no data	44	44	49	41	52	43	46	57
642	no data	no data	no data	no data	3	4	2	2	2	2	4	4
643	no data	no data	no data	no data	2	3	1	2	2	2	no data	3
644	no data	no data	no data	no data	no data	1	0	0	0	1	2	1
645	no data	no data	no data	no data	no data	1	0	0	0	1	1	3
646	no data	no data	no data	no data	no data	119	96	99	88	116	94	142
647	no data	no data	no data	no data	no data	115	105	107	100	no data	114	165
648	no data	no data	no data	no data	no data	125	120	114	141	122	119	168
649	no data	no data	no data	no data	no data	117	106	101	106	104	126	168
650	no data	no data	no data	no data	no data	43	56	21	53	50	96	69
651	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
652	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

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Station ID	04Q1	04Q2	04Q3	04Q4	05Q1	05Q2	05Q3	05Q4	06Q1	06q2	06Q3	06Q4
19	0	0	0	0	0	0	0	1	0	0	2	0
22	2	2	1	0	1	0	1	0	0	0	1	0
28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
57	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
64	2	2	0	0	0	1	0	0	0	0	1	0
65	2	0	0	0	1	1	2	2	0	2	2	0
66	0	0	0	0	0	0	1	0	0	0	0	0
101	0	0	0	0	1	0	no data	0	0	0	0	0
103	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
114	1	1	0	2	1	0	0	1	1	0	1	0
115	1	3	0	0	3	1	1	1	0	2	1	0
123	1	1	0	1	0	1	no data	1	1	0	1	0
124	4	0	0	0	1	5	no data	3	0	3	2	1
125	1	0	0	0	0	1	no data	1	1	0	0	0
133	no data	no data	no data	no data	no data	no data	no data	no data	1	0	0	0
134	no data	no data	no data	no data	no data	no data	no data	no data	5	5	6	4
135	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
150	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
151	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
152	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
181	3	10	0	0	1	0	0	0	0	0	0	0
182	11	6	0	0	2	0	1	0	1	0	0	0
183	17	29	0	1	2	0	0	0	0	0	1	0
185	0	0	0	1	1	1	1	0	0	0	0	0
187	8	13	0	0	1	0	0	2	0	1	1	0
190	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
601	20	18	13	17	16	24	16	23	22	21	18	23
602	162	158	131	189	194	186	157	170	176	183	173	152
603	31	36	19	29	32	37	45	40	51	42	39	31
604	37	32	43	36	38	42	36	38	50	51	43	31
606	570	422	449	437	569	563	552	455	724	533	492	767
607	59	59	33	49	47	60	56	47	64	53	30	34

Station ID	04Q1	04Q2	04Q3	04Q4	05Q1	05Q2	05Q3	05Q4	06Q1	06q2	06Q3	06Q4
608	28	24	20	26	23	30	16	30	33	29	15	19
610	45	43	55	36	34	41	24	49	59	46	52	25
611	87	91	75	70	76	79	50	93	89	87	78	83
613	62	41	45	30	43	43	44	52	48	45	52	52
614	41	45	48	39	35	45	41	43	43	25	39	29
615	14	17	25	16	15	17	17	14	23	17	18	14
617	14	15	13	11	12	15	12	11	22	26	16	8
618	23	22	25	17	20	24	26	23	13	27	18	13
620	13	22	21	14	18	15	24	19	35	22	17	21
622	65	67	77	78	61	161	105	83	71	75	99	58
624	73	82	103	92	125	131	134	156	144	105	69	110
625	59	47	59	45	47	60	69	62	71	40	47	52
626	20	23	28	22	20	26	29	23	16	15	30	31
635	38	37	35	30	33	28	32	39	38	31	50	28
639	32	38	37	31	29	36	32	39	39	36	40	24
640	57	46	46	52	41	40	37	26	52	40	39	27
642	4	4	3	4	4	5	3	3	4	5	3	3
643	4	4	2	4	3	6	4	3	5	5	4	3
644	2	1	0	0	1	2	2	2	2	2	1	2
645	1	1	1	0	0	1	0	1	2	4	1	1
646	173	143	100	173	150	163	191	183	238	197	147	145
647	168	186	189	167	126	193	113	105	159	141	116	122
648	156	167	181	154	177	156	155	160	195	185	118	128
649	160	172	171	163	182	197	96	107	158	132	127	112
650	63	74	79	47	22	21	18	27	28	24	52	53
651	no data	no data	no data	no data	4	5	5	6	6	5	5	4
652	no data	no data	no data	no data	2	4	3	3	5	1	4	3

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Station ID	07Q1	07Q2	07Q3	07Q4	08Q1	08Q2	08Q3	08Q4	09Q1	09Q2	09Q3	09Q4
19	1	0	0	0	1	1	0	1	1	1	1	1
22	0	0	0	1	0	0	0	0	1	1	0	0
28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
57	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
64	1	0	1	1	1	1	1	2	0	0	1	1
65	0	1	1	0	0	1	3	2	1	2	2	3
66	2	0	0	0	1	1	1	1	1	1	1	0
101	1	0	-1	0	0	1	0	1	0	1	1	1
103	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
114	0	0	0	0	1	1	1	0	1	1	0	1
115	0	0	1	0	0	0	0	0	1	1	1	2
123	1	0	1	1	0	1	0	1	1	1	1	2
124	1	1	2	3	0	1	2	2	1	1	1	2
125	0	0	2	1	0	1	1	1	1	1	0	1
133	1	0	0	0	0	0	1	0	0	1	1	1
134	3	3	4	3	4	5	4	4	4	5	3	5
135	no data	no data	no data	no data	no data	no data	no data	no data	0	0	0	0
150	no data	no data	no data	no data	no data	no data	no data	no data	2	1	1	2
151	no data	no data	no data	no data	no data	no data	no data	no data	0	1	1	1
152	no data	no data	no data	no data	no data	no data	no data	no data	0	1	1	1
181	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
182	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
183	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
185	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
187	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
190	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
601	14	11	16	19	12	21	20	15	14	18	11	13
602	139	114	113	127	134	141	122	149	113	118	82	129
603	20	28	35	44	35	28	25	29	32	40	24	26
604	no data	18	34	44	34	35	33	28	29	36	30	34
606	448	383	362	591	525	523	423	504	586	717	612	714
607	18	32	25	34	34	33	29	31	30	33	26	28

Station ID	07Q1	07Q2	07Q3	07Q4	08Q1	08Q2	08Q3	08Q4	09Q1	09Q2	09Q3	09Q4
608	13	15	6	21	11	15	18	18	18	25	18	12
610	32	34	33	32	31	28	27	35	36	37	26	33
611	55	64	103	147	95	78	79	87	112	117	83	145
613	41	50	30	36	47	65	30	51	73	80	65	99
614	34	41	31	24	23	37	25	42	34	49	30	38
615	7	5	no data	15	15	14	7	13	17	24	12	13
617	16	11	12	16	19	16	8	13	10	22	11	9
618	18	12	13	25	23	25	19	14	22	42	20	21
620	14	7	13	21	12	17	11	14	8	13	5	9
622	65	56	47	66	49	51	48	73	71	81	58	59
624	105	35	52	61	43	34	66	38	75	66	43	60
625	41	47	50	44	39	35	46	39	43	39	22	40
626	11	18	17	17	14	16	15	8	13	22	15	18
635	31	35	30	39	21	28	24	28	27	41	29	29
639	15	20	24	22	21	21	18	22	23	23	15	13
640	35	33	53	82	51	66	46	69	87	59	53	108
642	3	3	3	3	3	3	3	2	3	4	3	2
643	2	3	no data	2	3	3	2	2	3	2	2	2
644	0	0	0	0	0	1	1	0	1	1	2	1
645	0	0	0	1	0	1	1	1	1	2	2	1
646	91	156	163	95	138	117	136	161	177	161	144	158
647	74	89	176	180	124	133	130	141	129	143	117	124
648	107	123	101	149	105	128	116	130	130	118	88	83
649	60	97	156	202	140	163	175	117	106	107	105	101
650	18	39	35	39	31	36	39	41	33	30	22	29
651	4	3	no data	4	3	3	3	2	3	3	3	3
652	3	2	3	3	3	4	3	2	3	4	2	4

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Station ID	10Q1	10Q2	10Q3	10Q4	11Q1	11Q2	11Q3	11Q4	12Q1	12Q2	12Q3	12Q4
19	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	0	1	1	0	-1	0	0	1	1	1
28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
57	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
64	1	1	1	2	2	1	1	1	1	1	1	2
65	1	0	2	3	1	1	2	1	1	0	1	2
66	1	0	1	1	1	0	1	2	0	1	1	1
101	2	1	1	1	1	1	0	1	1	0	1	1
103	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	0
114	2	0	1	1	1	1	1	0	1	0	1	1
115	4	1	0	1	1	1	1	1	1	2	1	2
123	1	1	1	1	1	1	1	1	1	1	1	2
124	1	1	2	3	0	1	0	1	2	1	2	1
125	1	1	1	1	1	1	0	1	0	0	1	0
133	0	0	0	1	1	1	1	0	1	0	2	1
134	4	3	3	2	2	3	3	2	2	1	1	1
135	1	0	0	0	0	0	0	0	1	0	0	0
150	1	1	1	no data	1	2	2	1	1	1	1	1
151	1	1	1	1	1	1	1	0	1	0	0	1
152	2	1	1	1	1	1	1	1	1	1	1	1
181	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
182	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
183	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
185	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
187	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
190	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	-1
601	20	22	13	17	23	16	9	9	6	8	9	4
602	122	110	93	87	90	109	93	58	65	42	41	24
603	33	29	18	18	15	17	13	10	12	6	8	0
604	36	26	20	17	13	6	5	5	7	6	0	4
606	707	584	312	195	62	17	7	0	11	9	8	4
607	26	26	22	15	17	17	14	18	16	15	19	137

Station ID	10Q1	10Q2	10Q3	10Q4	11Q1	11Q2	11Q3	11Q4	12Q1	12Q2	12Q3	12Q4
608	18	15	16	28	18	20	18	15	20	14	13	12
610	23	31	38	44	42	38	38	29	31	31	27	17
611	88	126	136	142	126	91	75	71	97	71	58	27
613	87	100	74	126	142	120	128	119	104	103	101	69
614	39	41	37	45	55	49	42	35	33	31	32	27
615	8	13	10	12	21	9	4	6	11	7	8	8
617	12	12	14	14	5	7	7	7	5	6	0	3
618	11	9	17	11	6	10	5	7	7	4	7	6
620	8	9	15	14	14	13	9	10	9	7	11	8
622	57	73	50	45	48	43	41	31	34	28	27	35
624	70	85	51	48	72	64	71	63	80	58	46	56
625	51	53	38	39	40	35	28	21	26	23	22	13
626	21	13	20	17	20	16	12	11	12	10	9	5
635	29	36	38	44	35	40	26	27	31	21	18	15
639	22	20	23	22	21	23	21	15	18	17	21	20
640	78	96	93	112	158	147	158	118	77	59	52	56
642	3	3	2	2	2	2	2	1	1	1	2	1
643	3	3	2	2	2	2	2	1	1	2	1	1
644	1	1	2	2	2	2	1	1	1	2	2	1
645	2	0	1	1	1	2	1	1	1	1	1	1
646	109	113	64	33	21	12	20	11	6	6	9	5
647	127	85	63	38	20	15	14	9	10	8	7	0
648	104	81	47	28	16	16	10	5	5	7	11	12
649	102	93	61	36	15	19	10	9	10	9	4	5
650	32	25	34	33	26	30	30	33	34	35	36	34
651	4	5	4	3	3	3	3	2	3	2	3	1
652	6	4	4	5	5	4	4	2	3	3	3	2

LANL quarterly

Station ID	13Q1	13Q2	13Q3	13Q4	14Q1	14Q2	14Q3	14Q4	15Q1	15Q2	15Q3	15Q4
19	0	0	1	1	1	1	0	1	1	1	0	1
22	1	1	1	1	0	0	-1	1	1	1	0	1
28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
57	no data	1	0	1	1	0	1	0	0	1	0	0
64	2	1	1	1	1	1	0	0	1	1	1	2
65	0	1	1	2	1	0	1	0	1	0	1	1
66	1	1	1	1	0	0	2	0	2	1	0	1
101	0	1	0	1	0	1	1	1	0	0	0	0
103	0	0	-1	1	1	0	1	0	1	0	0	0
114	-2	1	0	0	0	1	1	0	1	1	1	1
115	-1	1	1	1	0	1	1	0	1	1	1	1
123	0	1	1	1	1	0	1	1	1	1	1	1
124	-1	1	1	2	1	1	1	2	1	0	1	2
125	1	1	1	1	1	1	2	1	1	1	1	1
133	1	1	1	1	0	0	0	1	1	1	0	0
134	0	2	1	1	1	0	1	1	1	1	1	1
135	0	0	0	0	0	0	1	0	1	0	1	0
150	0	1	1	2	1	1	2	1	0	1	1	1
151	1	1	0	1	1	1	1	0	1	1	0	1
152	2	2	-1	1	0	1	2	0	1	0	1	1
181	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
182	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
183	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
185	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
187	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
190	1	1	0	0	0	0	1	0	0	0	0	0
601	0	8	0	5	0	0	4	3	7	3	3	3
602	17	19	14	16	10	14	20	19	22	20	18	12
603	13	13	6	10	6	3	13	9	11	8	7	9
604	6	4	6	6	0	0	7	6	3	4	5	5
606	0	8	4	6	0	5	5	5	5	6	8	7
607	9	14	6	6	4	2	0	4	2	3	3	3

Station ID	13Q1	13Q2	13Q3	13Q4	14Q1	14Q2	14Q3	14Q4	15Q1	15Q2	15Q3	15Q4
608	10	13	5	5	3	0	7	2	0	2	7	5
610	21	19	12	10	8	no data	10	12	9	6	10	13
611	36	31	22	27	28	26	47	32	30	17	34	36
613	38	29	55	53	47	29	32	24	31	27	32	24
614	32	21	21	17	12	16	23	24	20	14	20	22
615	0	5	0	7	5	0	4	6	3	2	3	4
617	5	5	0	0	0	0	4	0	6	2	0	4
618	0	4	3	5	2	0	5	0	0	4	0	6
620	0	10	0	4	4	0	3	0	10	3	5	4
622	23	11	15	11	14	14	17	20	23	17	16	15
624	70	50	48	48	34	18	12	14	11	12	22	15
625	18	13	11	7	10	14	7	9	4	7	6	5
626	0	7	3	7	0	0	4	3	6	0	3	3
635	12	15	13	10	11	9	12	12	12	9	13	12
639	14	13	7	8	4	0	0	4	3	2	7	5
640	38	34	33	44	35	26	35	26	23	23	26	20
642	1	2	0	1	1	0	1	1	1	1	1	1
643	-1	1	0	1	1	0	1	0	1	1	1	0
644	2	1	1	1	1	0	1	1	1	1	1	1
645	1	2	1	1	0	0	1	-1	1	0	1	1
646	8	8	0	3	0	0	5	0	7	4	5	4
647	no data	5	4	0	3	0	0	3	3	5	4	5
648	6	7	3	2	0	0	12	0	6	5	6	4
649	5	7	6	4	5	8	8	4	0	4	7	6
650	42	26	9	8	6	0	9	4	3	4	0	7
651	1	2	1	2	1	2	1	0	2	1	1	1
652	-1	2	1	1	2	1	2	2	1	2	3	1

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Station ID	16Q1	16Q2	16Q3	16Q4	17Q1	17Q2	17Q3	17Q4	18Q1	18Q2	18Q3	18Q4
19	0	0	1	1	1	0	1	1	2	1	1	1
22	1	0	0	0	0	1	0	1	1	1	1	1
28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
57	1	0	0	0	0	0	1	1	1	1	1	1
64	1	1	1	1	1	1	1	2	1	2	1	1
65	1	1	1	1	0	1	1	1	0	1	2	2
66	1	0	1	1	2	1	1	1	1	1	1	1
101	0	0	0	0	0	1	1	1	1	1	1	1
103	0	0	0	0	0	0	0	0	0	1	0	0
114	1	1	1	1	2	1	1	1	1	1	1	1
115	1	1	1	1	1	2	1	1	1	2	1	1
123	1	1	1	1	0	1	1	1	1	2	1	1
124	2	0	2	3	1	1	2	3	1	2	3	1
125	1	1	1	1	0	1	1	1	1	1	2	1
133	0	1	1	1	0	1	1	1	1	1	1	1
134	2	1	1	1	1	1	1	2	1	2	3	1
135	0	0	0	0	1	0	0	0	0	0	0	0
150	1	1	1	0	0	1	1	1	2	1	2	1
151	2	1	1	0	0	1	2	1	1	1	1	1
152	1	2	0	1	1	1	1	2	2	2	2	1
181	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
182	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
183	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
185	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
187	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
190	0	0	0	0	0	0	0	1	1	0	1	0
601	8	3	2	6	2	0	4	4	3	5	3	3
602	10	11	11	15	8	14	10	13	8	12	16	9
603	12	10	6	7	4	0	4	6	7	7	8	4
604	3	5	3	2	2	3	4	4	13	5	4	3
606	6	6	5	9	4	7	7	6	3	no data	5	4
607	11	4	4	4	2	5	7	5	5	8	7	4

Station ID	16Q1	16Q2	16Q3	16Q4	17Q1	17Q2	17Q3	17Q4	18Q1	18Q2	18Q3	18Q4
608	5	5	3	8	4	6	5	4	3	8	7	5
610	14	12	13	10	6	13	10	11	14	10	17	15
611	52	26	43	37	25	43	45	25	35	29	45	30
613	21	13	18	19	17	26	27	32	22	23	29	23
614	19	14	19	11	15	19	19	23	15	16	18	15
615	0	3	3	3	3	7	3	5	2	5	2	3
617	3	3	4	0	0	4	2	3	4	4	4	0
618	4	7	4	0	0	3	3	4	0	7	6	0
620	0	4	4	3	3	4	3	0	0	5	8	4
622	13	8	12	12	10	15	21	19	15	19	16	12
624	19	10	13	10	10	17	12	24	32	28	27	25
625	5	5	5	8	4	12	5	6	5	6	5	6
626	0	3	3	3	2	0	4	0	0	8	5	5
635	16	14	11	10	16	9	19	15	18	19	12	11
639	4	7	4	4	no data	6	5	5	5	8	6	8
640	18	11	17	16	20	24	23	27	21	26	24	21
642	1	2	0	1	0	1	1	1	1	2	1	1
643	1	0	1	1	1	1	1	1	1	1	1	1
644	1	1	0	1	0	1	1	1	1	0	1	1
645	1	1	0	1	1	1	1	1	1	0	1	0
646	4	4	4	4	2	5	4	5	5	2	4	6
647	0	4	6	3	3	5	2	0	3	7	6	7
648	4	5	6	6	2	3	7	11	4	3	0	7
649	6	5	6	6	5	7	8	10	12	16	7	13
650	5	6	5	5	3	3	5	9	8	3	12	0
651	1	1	1	1	1	1	1	1	1	2	1	1
652	1	1	1	1	1	2	1	2	0	2	0	2

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Station ID	19Q1	19Q2	19Q3	19Q4	20Q1	20Q2	20Q3	20Q4
19	1	1	1	1	1	2	0	1
22	1	1	1	0	1	0	-1	0
28	no data	no data	no data	no data	no data	no data	no data	no data
57	1	1	1	1	1	0	0	0
64	1	1	1	1	0	0	2	1
65	1	1	2	2	1	2	1	1
66	1	2	1	1	1	0	0	0
101	1	1	1	0	1	0	0	1
103	0	1	-1	0	1	1	0	0
114	1	1	1	1	1	2	0	1
115	1	2	1	1	1	2	0	2
123	1	1	1	1	1	2	1	2
124	1	1	2	3	1	2	2	3
125	1	1	1	1	1	2	1	1
133	1	1	0	1	1	2	0	0
134	1	1	-2	1	1	1	1	1
135	1	0	0	0	0	1	-1	1
150	1	1	1	1	1	1	1	1
151	0	2	2	1	2	2	0	1
152	1	1	1	1	1	2	1	1
181	no data	no data	no data	no data	no data	no data	no data	no data
182	no data	no data	no data	no data	no data	no data	no data	no data
183	no data	no data	no data	no data	no data	no data	no data	no data
185	no data	no data	no data	no data	no data	no data	no data	no data
187	no data	no data	no data	no data	no data	no data	no data	no data
190	0	0	0	1	0	1	0	1
601	5	3	3	2	4	5	0	0
602	12	9	13	8	8	7	9	6
603	6	17	10	3	3	3	0	10
604	0	5	5	6	4	2	0	3
606	5	4	3	2	4	0	4	13
607	8	5	5	7	8	6	9	18

Station ID	19Q1	19Q2	19Q3	19Q4	20Q1	20Q2	20Q3	20Q4
608	6	5	5	6	7	0	0	16
610	6	13	10	14	14	17	9	18
611	45	23	22	20	30	19	15	27
613	28	21	21	11	7	10	8	8
614	15	20	18	18	17	10	13	15
615	5	2	3	4	4	8	0	13
617	0	7	2	3	9	2	2	0
618	3	7	5	4	3	7	0	5
620	6	6	4	3	4	6	7	4
622	14	17	13	14	13	20	10	23
624	26	27	32	39	63	49	28	24
625	6	11	5	11	8	13	15	9
626	3	3	3	4	5	4	6	3
635	16	10	10	12	13	17	12	11
639	4	14	6	11	6	13	13	17
640	26	20	40	15	13	10	6	6
642	1	1	0	1	1	1	1	1
643	1	2	0	1	2	1	0	3
644	1	1	0	0	0	1	0	1
645	1	0	1	0	0	0	1	0
646	0	0	3	4	3	6	0	13
647	5	4	5	4	3	0	5	8
648	4	5	4	0	3	7	4	10
649	0	7	6	6	0	6	10	9
650	5	8	5	5	7	10	21	29
651	1	1	1	1	2	1	2	1
652	2	2	2	2	1	2	0	2

Table S7-2. Concentrations of selected radionuclides in native overstory vegetation (branches plus needles) collected around the peri

Table S7-2a. Concentrations of selected radionuclides

Location ID	^{3}H pCi/mL	^{3}H Uncertainty	^{3}H Detected	^{241}Am pCi/g	^{241}Am Uncertainty
21-01	0.1740	0.0430	Y	-0.0019	0.0014
26-01	0.5190	0.0670	Y	**0.0732**	0.0082
29-03	**25.70**	2.000	Y	0.0012	0.0016
30-01	**590.0**	45.00	Y	-0.0006	0.0014
32-02	**6.360**	0.5200	Y	-0.0015	0.0011
36-02	0.1940	0.0420	Y	0.0004	0.0014
38-01	0.1990	0.0500	Y	-0.0005	0.0014
40-01	0.2490	0.0500	Y	0.0020	0.0017
42-01	0.0110	0.0340	N	0.0072	0.0025
45-05	0.6460	0.0790	Y	-0.0004	0.0013
48-01	**2.030**	0.1900	Y	-0.0019	0.0011
52-01	0.3300	0.0680	Y	0.0010	0.0019
58-01	**6.910**	0.5600	Y	0.0000	0.0014
T-3B	0.0810	0.0430	N	0.0018	0.0018
T-3D	0.1530	0.0500	Y	-0.0012	0.0013

Table S7-2b. Screening level concentrations of selected radionuclides

Screening Levels	^{3}H pCi/mL	^{241}Am pCi/g	^{137}Cs pCi/g	^{238}Pu pCi/g	^{239,240}Pu pCi/g
RSRL	2.94	0.0142	0.6857	0.0156	0.0118
BDSL	345000	778	103111	822	822

References

DOE (Department of Energy). 2019. "A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota," U.S. Departme

Table S7-2. Concentraimeter of Area G in 2020.

Table S7-2a. Concentra

Location ID	^{241}Am Detected	^{137}Cs pCi/g	^{137}Cs Uncertainty	^{137}Cs Detected	^{238}Pu pCi/g
21-01	N	-0.2700	0.2800	N	0.0021
26-01	Y	-0.0900	0.2100	N	0.0006
29-03	N	-0.5500	0.2300	N	0.0006
30-01	N	-0.2700	0.2600	N	0.0010
32-02	N	0.0200	0.2100	N	0.0023
36-02	N	-0.1700	0.2100	N	-0.0005
38-01	N	0.2400	0.2300	N	0.0004
40-01	N	-0.1900	0.2500	N	0.0017
42-01	Y	-0.1000	0.1900	N	-0.0005
45-05	N	-0.2600	0.1900	N	0.0026
48-01	N	-0.1200	0.1800	N	0.0010
52-01	N	0.0700	0.1900	N	0.0016
58-01	N	-0.3600	0.2100	N	0.0024
T-3B	N	0.1500	0.1800	N	0.0026
T-3D	N	0.2000	0.1700	N	0.0000

Table S7-2b. Screening

Screening Levels	^{90}Sr pCi/g	^{234}U pCi/g	$^{235/236}$U pCi/g	^{238}U pCi/g
RSRL	3.181	0.6393	0.0320	0.6544
BDSL	53750	889	889	987

References

DOE (Department of Eent of Energy report DOE-STD-1153-2019.

Table S7-2. Concentra

Table S7-2a. Concentra

Location ID	^{238}Pu Uncertainty	^{238}Pu Detected	^{239,240}Pu pCi/g	^{239,240}Pu Uncertainty
21-01	0.0015	N	0.0016	0.0014
26-01	0.0016	N	0.0000	0.0015
29-03	0.0014	N	0.0022	0.0014
30-01	0.0012	N	0.0010	0.0012
32-02	0.0012	Y	0.0005	0.0011
36-02	0.0013	N	0.0033	0.0014
38-01	0.0011	N	0.0036	0.0013
40-01	0.0014	Y	0.0022	0.0018
42-01	0.0011	N	0.0036	0.0015
45-05	0.0011	Y	0.0004	0.0011
48-01	0.0012	N	0.0010	0.0017
52-01	0.0014	N	0.0032	0.0013
58-01	0.0015	N	0.0005	0.0012
T-3B	0.0013	Y	0.0016	0.0013
T-3D	0.0012	N	0.0020	0.0014

Table S7-2b. Screening

Screening Levels
RSRL
BDSL

References

DOE (Department of E

Table S7-2. Concentra

Table S7-2a. Concentra

Location ID	^{239,240}Pu Detected	^{90}Sr pCi/g	^{90}Sr Uncertainty	^{90}Sr Detected	^{234}U pCi/g
21-01	N	**3.440**	0.41	Y	0.2810
26-01	N	2.370	0.28	Y	0.1720
29-03	N	3.030	0.36	Y	0.1680
30-01	N	1.490	0.18	Y	0.0861
32-02	N	**5.440**	0.64	Y	0.1810
36-02	Y	2.280	0.27	Y	0.1360
38-01	Y	2.520	0.3	Y	0.0942
40-01	N	**4.710**	0.56	Y	0.2150
42-01	Y	1.870	0.22	Y	0.1790
45-05	N	2.460	0.29	Y	0.1120
48-01	N	**6.920**	0.81	Y	0.2710
52-01	Y	2.300	0.27	Y	0.2730
58-01	N	**3.280**	0.39	Y	0.2860
T-3B	Y	0.830	0.1	Y	0.0870
T-3D	N	2.660	0.32	Y	0.1470

Table S7-2b. Screening

Screening Levels
RSRL
BDSL

References

DOE (Department of E

Table S7-2. Concentra

Table S7-2a. Concentra

Location ID	^{234}U Uncertainty	^{234}U Detected	$^{235/236}$U pCi/g	$^{235/236}$U Uncertainty	$^{235/236}$U Detected
21-01	0.0250	Y	0.0148	0.0029	Y
26-01	0.0160	Y	0.0118	0.0026	Y
29-03	0.0160	Y	0.0064	0.0022	N
30-01	0.0092	Y	0.0034	0.0018	N
32-02	0.0170	Y	0.0060	0.0019	N
36-02	0.0130	Y	0.0071	0.0019	Y
38-01	0.0095	Y	0.0044	0.0014	N
40-01	0.0200	Y	0.0123	0.0029	Y
42-01	0.0170	Y	0.0057	0.0019	N
45-05	0.0110	Y	0.0054	0.0019	N
48-01	0.0240	Y	0.0160	0.003	Y
52-01	0.0240	Y	0.0092	0.0023	Y
58-01	0.0250	Y	0.0145	0.0031	Y
T-3B	0.0093	Y	0.0031	0.0013	N
T-3D	0.0140	Y	0.0115	0.0026	Y

Table S7-2b. Screening

Screening Levels
RSRL
BDSL

References

DOE (Department of E

Table S7-2. Concentra

Table S7-2a. Concentra

Location ID	^{238}U pCi/g	^{238}U Uncertainty	^{238}U Detected
21-01	0.3620	0.0310	Y
26-01	0.2480	0.0220	Y
29-03	0.1830	0.0170	Y
30-01	0.1150	0.0110	Y
32-02	0.2020	0.0180	Y
36-02	0.1580	0.0150	Y
38-01	0.1080	0.0110	Y
40-01	0.2730	0.0240	Y
42-01	0.2160	0.0200	Y
45-05	0.1830	0.0170	Y
48-01	0.3160	0.0270	Y
52-01	0.3100	0.0270	Y
58-01	0.2890	0.0250	Y
T-3B	0.1160	0.0120	Y
T-3D	0.2070	0.0190	Y

Table S7-2b. Screening

Screening Levels
RSRL
BDSL

References

DOE (Department of E

Table S7-1. Concentrations of selected radionuclides in soil (0- to 6-inch depth) collected around the perimeter of Area G in 2020.

Table S7-1a. Concentrations of selected radionuclides

Location	Location ID	^{3}H pCi/g	^{3}H Uncertainty	^{3}H Detected	^{241}Am pCi/g	^{241}Am Uncertainty	^{241}Am Detected	^{137}Cs pCi/g	^{137}Cs Uncertainty
Perimeter of Area G	21-01	0.0184	0.0050	Y	0.0099	0.0058	N	0.0590	0.0660
Perimeter of Area G	26-01	0.0113	0.0034	Y	0.0083	0.0074	N	0.1280	0.0750
Perimeter of Area G	29-03	0.2250	0.0200	Y	0.0010	0.0069	N	0.0000	0.0500
Perimeter of Area G	30-01	**4.5500**	0.3500	Y	**0.0066**	0.0062	N	0.2140	0.0890
Perimeter of Area G	32-02	0.1160	0.0120	Y	**-0.0039**	0.0064	N	0.2180	0.0880
Perimeter of Area G	36-02	-0.0074	0.0032	N	**0.0260**	0.0110	N	0.2300	0.0860
Perimeter of Area G	38-01	0.0007	0.0037	N	**0.5770**	0.0580	Y	0.1240	0.0860
Perimeter of Area G	40-01	0.0057	0.0040	N	**0.0770**	0.0150	Y	0.1560	0.0780
Perimeter of Area G	42-01	-0.0005	0.0042	N	**0.0780**	0.0170	Y	0.1200	0.0830
Perimeter of Area G	45-05	0.0209	0.0059	Y	**0.0850**	0.0160	Y	0.2450	0.0910
Perimeter of Area G	48-01	0.0024	0.0039	N	**0.4470**	0.0460	Y	0.0690	0.0690
Perimeter of Area G	52-01	-0.0069	0.0033	N	**0.0046**	0.0074	N	0.0460	0.0460
Perimeter of Area G	58-01	0.0054	0.0045	N	**0.0001**	0.0067	N	-0.0260	0.0680
TA-54/Pueblo de San Ildefonso Boundary	T-3B	-0.0006	0.0039	N	0.0152	0.0074	N	0.1300	0.0610
TA-54/Pueblo de San Ildefonso Boundary	T-3B	-0.0020	0.0038	N	**0.0252**	0.0092	Y	0.1520	0.0640
TA-54/Pueblo de San Ildefonso Boundary	T-3C	0.0147	0.0047	Y	0.0142	0.0085	N	0.0710	0.0790
TA-54/Pueblo de San Ildefonso Boundary	T-3D	0.0158	0.0048	Y	0.0076	0.0068	N	0.1460	0.0830
TA-54/Pueblo de San Ildefonso Boundary	T-3E	0.0223	0.0048	Y	0.0020	0.0069	N	0.0810	0.0700

Table S7-1b. Screening level concentrations of selected radionuclides

Screening Levels	^{3}H pCi/g	^{3}H Receptor	^{241}Am pCi/g	^{241}Am Receptor	^{137}Cs pCi/g	^{137}Cs Receptor	^{238}Pu pCi/g	^{238}Pu Receptor	$^{239/240}$Pu pCi/g
RSRL	0.0713	NA	0.0187	NA	0.7343	NA	0.0314	NA	0.0571
NE-ESL (Plant)	36000	plant	500	plant	1500	plant	1800	plant	1900
LE-ESL (Plant)	360000	plant	5000	plant	15000	plant	18000	plant	19000
NE-ESL (A/I)	48000	earthworm	190	earthworm	1400	robin	820	earthworm	870
LE-ESL (A/I)	480000	earthworm	1900	earthworm	14000	robin	8200	earthworm	8700

References

"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62152, accessed Feb 2021

Table S7-1. Concentrations of selected radionuclid

Table S7-1a. Concentrations of selected radionuclide

Location	^{137}Cs Detected	^{238}Pu pCi/g	^{238}Pu Uncertainty	^{238}Pu Detected	$^{239/240}$Pu pCi/g	$^{239/240}$Pu Uncertainty	$^{239/240}$Pu Detected	^{90}Sr pCi/g	^{90}Sr Uncertainty
Perimeter of Area G	N	0.0217	0.0049	N	**0.0583**	0.0089	Y	0.0500	0.0210
Perimeter of Area G	N	0.0146	0.0042	N	0.0200	0.0047	Y	0.0380	0.0200
Perimeter of Area G	N	0.0196	0.0048	N	0.0127	0.0037	Y	0.0030	0.0220
Perimeter of Area G	N	**0.0132**	0.0043	N	**0.0236**	0.0056	Y	0.0100	0.0220
Perimeter of Area G	N	**0.0131**	0.0041	N	**0.0234**	0.0050	Y	0.0510	0.0220
Perimeter of Area G	N	**0.0070**	0.0036	N	**0.0638**	0.0094	Y	0.0760	0.0250
Perimeter of Area G	N	**0.0690**	0.0100	Y	**2.2700**	0.1800	Y	0.0870	0.0250
Perimeter of Area G	N	**1.1890**	0.0980	Y	**0.4680**	0.0420	Y	0.1120	0.0270
Perimeter of Area G	N	**0.2360**	0.0240	Y	**0.2290**	0.0240	Y	0.1020	0.0270
Perimeter of Area G	N	**0.2140**	0.0230	Y	**0.2080**	0.0220	Y	0.2580	0.0390
Perimeter of Area G	N	**0.4050**	0.0380	Y	**1.3000**	0.1100	Y	0.0610	0.0240
Perimeter of Area G	N	**0.0153**	0.0046	N	**0.0378**	0.0070	Y	0.0770	0.0260
Perimeter of Area G	N	**0.0093**	0.0035	N	**0.0247**	0.0056	Y	0.0650	0.0220
TA-54/Pueblo de San Ildefonso Boundary	N	**0.6310**	0.0540	Y	**0.0675**	0.0094	Y	0.0360	0.0210
TA-54/Pueblo de San Ildefonso Boundary	N	**0.6980**	0.0660	Y	**0.0810**	0.0140	Y	0.0610	0.0220
TA-54/Pueblo de San Ildefonso Boundary	N	0.0256	0.0059	N	0.0479	0.0082	Y	0.0640	0.0260
TA-54/Pueblo de San Ildefonso Boundary	N	0.0230	0.0054	N	0.0390	0.0075	Y	0.0840	0.0240
TA-54/Pueblo de San Ildefonso Boundary	N	0.0054	0.0033	N	0.0336	0.0071	Y	0.0010	0.0230

Table S7-1b. Screening level concentrations of select

Screening Levels	$^{239/240}$Pu receptor	^{90}Sr pCi/g	^{90}Sr Receptor	^{234}U pCi/g	^{234}U Receptor	$^{235/236}$U pCi/g	$^{235/236}$U Receptor	^{238}U pCi/g	^{238}U Receptor
RSRL	NA	0.4221	NA	1.496	NA	0.0794	NA	1.481	NA
NE-ESL (Plant)	plant	1100	plant	440	plant	440	plant	400	plant
LE-ESL (Plant)	plant	11000	plant	4400	plant	4400	plant	4000	plant
NE-ESL (A/I)	earthworm	340	American robin	2200	earthworm	1600	earthworm	1100	earthworm
LE-ESL (A/I)	earthworm	3400	American robin	22000	earthworm	16000	earthworm	11000	earthworm

References

"ECORISK Database," R4.2, https://www.intellusnm.

Table S7-1. Concentrations of selected radionuclic

Table S7-1a. Concentrations of selected radionuclide

Location	^{90}Sr Detected	^{234}U pCi/g	^{34}U Uncertaint	^{234}U Detected	$^{235/236}$U pCi/g	$^{/236}$U Uncertain	$^{5/236}$U Detected	^{238}U pCi/g	^{38}U Uncertaint	Detected
Perimeter of Area G	N	1.083	0.0920	Y	0.0630	0.0110	Y	1.112	0.0940	Y
Perimeter of Area G	N	0.8720	0.0740	Y	0.0332	0.0068	Y	0.8060	0.0680	Y
Perimeter of Area G	N	0.6940	0.0590	Y	0.0363	0.0069	Y	0.6820	0.0580	Y
Perimeter of Area G	N	0.9100	0.0760	Y	0.0465	0.0083	Y	0.8880	0.0740	Y
Perimeter of Area G	N	0.8950	0.0750	Y	0.0385	0.0074	Y	0.9110	0.0760	Y
Perimeter of Area G	N	0.9970	0.0870	Y	0.0570	0.0120	Y	0.9530	0.0840	Y
Perimeter of Area G	Y	0.9700	0.0850	Y	0.0580	0.0120	Y	0.8880	0.0790	Y
Perimeter of Area G	Y	1.0120	0.0910	Y	0.0440	0.0110	Y	1.0410	0.0930	Y
Perimeter of Area G	Y	0.9660	0.0890	Y	0.0430	0.0110	Y	0.9350	0.0870	Y
Perimeter of Area G	Y	0.9470	0.0850	Y	0.0530	0.0120	Y	0.9010	0.0820	Y
Perimeter of Area G	N	0.8360	0.0750	Y	0.0400	0.0094	Y	0.9820	0.0860	Y
Perimeter of Area G	N	0.8450	0.0780	Y	0.0480	0.0110	Y	0.8540	0.0790	Y
Perimeter of Area G	N	0.9200	0.0810	Y	0.0630	0.0120	Y	0.8840	0.0780	Y
TA-54/Pueblo de San Ildefonso Boundary	N	0.7170	0.0630	Y	0.0476	0.0097	Y	0.7070	0.0630	Y
TA-54/Pueblo de San Ildefonso Boundary	N	0.5940	0.0560	Y	0.0399	0.0096	Y	0.6320	0.0590	Y
TA-54/Pueblo de San Ildefonso Boundary	N	1.062	0.0970	Y	0.0680	0.0140	Y	1.120	0.1000	Y
TA-54/Pueblo de San Ildefonso Boundary	Y	**1.520**	0.1300	Y	0.0920	0.0180	Y	**1.540**	0.1400	Y
TA-54/Pueblo de San Ildefonso Boundary	N	1.460	0.1300	Y	0.0920	0.0170	Y	1.420	0.1300	Y

Table S7-1b. Screening level concentrations of select

Screening Levels
RSRL
NE-ESL (Plant)
LE-ESL (Plant)
NE-ESL (A/I)
LE-ESL (A/I)

References

"ECORISK Database," R4.2, https://www.intellusnm.

Table S7-3. Concentrations of radionuclides in soil (0- to 2-inch depth) collected from two locations on Pueblo de San Ildefonso in 2020.

Table S7-3a. Concentrations of selected radionuclides

Location	^{3}H pCi/g	^{3}H Uncertainty	^{3}H Detected	^{241}Am pCi/g	^{241}Am Uncertainty
Tsankawi/PM-1	0.0048	0.0026	N	0.0047	0.0075
Sacred Area	0.0098	0.0030	Y	0.0058	0.0074

Table S7-3b. Screening level concentrations of selected radionuclides

Screening Levels	^{3}H pCi/g	^{3}H Receptor	^{241}Am pCi/g	^{241}Am Receptor	^{137}Cs pCi/g
RSRL	0.071	NA	0.019	NA	0.734
NE-ESL (Plant)	36000	plant	500	plant	1500
LE-ESL (Plant)	360000	plant	5000	plant	15000
NE-ESL (A/I)	48000	earthworm	190	earthworm	1400
LE-ESL (A/I)	480000	earthworm	1900	earthworm	14000

References

"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62152, accesse

Table S7-3. Concentrat

Table S7-3a. Concentrat

Location	^{241}Am Detected	^{137}Cs pCi/g	^{137}Cs Uncertainty	^{137}Cs Detected	^{238}Pu pCi/g
Tsankawi/PM-1	N	0.0620	0.0620	N	0.0061
Sacred Area	N	0.2540	0.0690	Y	0.0105

Table S7-3b. Screening l

Screening Levels	^{137}Cs Receptor	^{238}Pu pCi/g	^{238}Pu Receptor	^{239,240}Pu pCi/g	^{239,240}Pu Receptor
RSRL	NA	0.031	NA	0.057	NA
NE-ESL (Plant)	plant	1800	plant	1900	plant
LE-ESL (Plant)	plant	18000	plant	19000	plant
NE-ESL (A/I)	American robin	820	earthworm	870	earthworm
LE-ESL (A/I)	American robin	8200	earthworm	8700	earthworm

References

"ECORISK Database," R4d Feb 2021

Table S7-3. Concentrat

Table S7-3a. Concentrat

Location	^{238}Pu Uncertainty	^{238}Pu Detected	^{239,240}Pu pCi/g	^{239,240}Pu Uncertainty
Tsankawi/PM-1	0.0025	Y	0.0121	0.0121
Sacred Area	0.0033	Y	0.0343	0.0026

Table S7-3b. Screening l

Screening Levels	^{90}Sr pCi/g	^{90}Sr Receptor	^{234}U pCi/g	^{234}U Receptor
RSRL	0.422	NA	1.50	NA
NE-ESL (Plant)	1100	plant	440	plant
LE-ESL (Plant)	11000	plant	4400	plant
NE-ESL (A/I)	340	American robin	2200	earthworm
LE-ESL (A/I)	3400	American robin	22000	earthworm

References

"ECORISK Database," R4

Table S7-3. Concentrat

Table S7-3a. Concentrat

Location	^{239,240}Pu Detected	^{90}Sr pCi/g	^{90}Sr Uncertainty	^{90}Sr Detected	^{234}U pCi/g
Tsankawi/PM-1	N	0.0230	0.0210	N	0.5120
Sacred Area	Y	0.0940	0.0260	Y	0.5420

Table S7-3b. Screening l

Screening Levels	$^{235/236}$U pCi/g	$^{235/236}$U Receptor	^{238}U pCi/g	^{238}U Receptor
RSRL	0.079	NA	1.48	NA
NE-ESL (Plant)	440	plant	400	plant
LE-ESL (Plant)	4400	plant	4000	plant
NE-ESL (A/I)	1600	earthworm	1100	earthworm
LE-ESL (A/I)	16000	earthworm	11000	earthworm

References

"ECORISK Database," R4

Table S7-3. Concentrat

Table S7-3a. Concentrat

Location	^{234}U Uncertainty	^{234}U Detected	$^{235/236}$U pCi/g	$^{235/236}$U Uncertainty	$^{235/236}$U Detected
Tsankawi/PM-1	0.0490	Y	0.0312	0.0080	Y
Sacred Area	0.0500	Y	0.0277	0.0072	Y

Table S7-3b. Screening l

Screening Levels
RSRL
NE-ESL (Plant)
LE-ESL (Plant)
NE-ESL (A/I)
LE-ESL (A/I)

References

"ECORISK Database," R4

Table S7-3. Concentrat

Table S7-3a. Concentrat

Location	^{238}U pCi/g	^{238}U Uncertainty	^{238}U Detected
Tsankawi/PM-1	0.5350	0.0510	Y
Sacred Area	0.5760	0.0530	Y

Table S7-3b. Screening l

Screening Levels
RSRL
NE-ESL (Plant)
LE-ESL (Plant)
NE-ESL (A/I)
LE-ESL (A/I)

References

"ECORISK Database," R4

Table S7-4. Total analyte list concentrations in soil (0- to 2-inch depth) collected from two locations on Pueblo de San Ildefonso in

Table S7-4a. Total analyte list concentrations.

Location	Aluminum mg/kg	Aluminum Detected	Antimony mg/kg	Antimony Detected
Tsankawi/PM-1	2600	Y	0.0860	Y
Sacred Area	3600	Y	0.0840	Y

Table S7-4b. Total analyte screeling level concentrations.

Screening Levels	Aluminum mg/kg	Aluminum Receptor	Antimony mg/kg	Antimony Receptor
RSRL	15289	NA	0.42	NA
NE-ESL (Plant)	NA	NA	11	plant
LE-ESL (Plant)	NA	NA	58	plant
NE-ESL (A/I)	NA	NA	2.3	deer mouse
LE-ESL (A/I)	NA	NA	23	deer mouse

References

"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62152, acc

Table S7-4. Total an2020.

Table S7-4a. Total an

Location	Arsenic mg/kg	Arsenic Detected	Barium mg/kg	Barium Detected	Beryllium mg/kg
Tsankawi/PM-1	1.7	Y	52	Y	0.43
Sacred Area	1.8	Y	58	Y	0.56

Table S7-4b. Total ar

Screening Levels	Arsenic mg/kg	Arsenic Receptor	Barium mg/kg	Barium Receptor	Beryllium mg/kg
RSRL	7.9	NA	337	NA	1.22
NE-ESL (Plant)	18	plant	110	plant	2.5
LE-ESL (Plant)	91	plant	260	plant	25
NE-ESL (A/I)	6.8	earthworm	330	earthworm	18
LE-ESL (A/I)	68	earthworm	3200	earthworm	180

References

"ECORISK Database,":essed Feb 2021

Table S7-4. Total an

Table S7-4a. Total an

Location	Beryllium Detected	Cadmium mg/kg	Cadmium Detected	Calcium mg/kg
Tsankawi/PM-1	Y	0.071	Y	690
Sacred Area	Y	0.093	Y	1100

Table S7-4b. Total ar

Screening Levels	Beryllium Receptor	Cadmium mg/kg	Cadmium Receptor	Calcium mg/kg
RSRL	NA	0.33	NA	50573
NE-ESL (Plant)	plant	32	plant	NA
LE-ESL (Plant)	plant	160	plant	NA
NE-ESL (A/I)	montane shrew	0.3	montane shrew	NA
LE-ESL (A/I)	montane shrew	3.6	montane shrew	NA

References

"ECORISK Database,"

Table S7-4. Total an

Table S7-4a. Total an

Location	Calcium Detected	Chromium mg/kg	Chromium Detected	Cobalt mg/kg
Tsankawi/PM-1	Y	3.6	Y	2.5
Sacred Area	Y	3.9	Y	2.7

Table S7-4b. Total ar

Screening Levels	Calcium Receptor	Chromium mg/kg	Chromium Receptor	Cobalt mg/kg
RSRL	NA	27	NA	13
NE-ESL (Plant)	NA	NA	NA	13
LE-ESL (Plant)	NA	NA	NA	130
NE-ESL (A/I)	NA	23	American Robin	76
LE-ESL (A/I)	NA	73	American Robin	170

References

"ECORISK Database,"

Table S7-4. Total an

Table S7-4a. Total an

Location	Cobalt Detected	Copper mg/kg	Copper Detected	Iron mg/kg	Iron Detected
Tsankawi/PM-1	Y	2.6	Y	9200	Y
Sacred Area	Y	4.0	Y	6500	Y

Table S7-4b. Total ar

Screening Levels	Cobalt Receptor	Copper mg/kg	Copper Receptor	Iron mg/kg	Iron Receptor
RSRL	NA	17	NA	22956	NA
NE-ESL (Plant)	plant	70	plant	NA	NA
LE-ESL (Plant)	plant	490	plant	NA	NA
NE-ESL (A/I)	American Robin	14	American Robin	NA	NA
LE-ESL (A/I)	American Robin	43	American Robin	NA	NA

References

"ECORISK Database,"

Table S7-4. Total an

Table S7-4a. Total an

Location	Lead mg/kg	Lead Detected	Magnesium mg/kg	Magnesium Detected
Tsankawi/PM-1	9.5	Y	590	Y
Sacred Area	8.5	Y	700	Y

Table S7-4b. Total ar

Screening Levels	Lead mg/kg	Lead Receptor	Magnesium mg/kg	Magnesium Receptor
RSRL	19	NA	5578	NA
NE-ESL (Plant)	120	plant	NA	NA
LE-ESL (Plant)	570	plant	NA	NA
NE-ESL (A/I)	11	American Robin	NA	NA
LE-ESL (A/I)	23	American Robin	NA	NA

References

"ECORISK Database,"

Table S7-4. Total an

Table S7-4a. Total an

Location	Manganese mg/kg	Manganese Detected	Mercury mg/kg	Mercury Detected
Tsankawi/PM-1	340	Y	0.0045	Y
Sacred Area	270	Y	**0.0140**	Y

Table S7-4b. Total ar

Screening Levels	Manganese mg/kg	Manganese Receptor	Mercury mg/kg	Mercury Receptor
RSRL	1304	NA	0.041	NA
NE-ESL (Plant)	220	plant	34	plant
LE-ESL (Plant)	1100	plant	64	plant
NE-ESL (A/I)	450	earthworm	0.013	American Robin
LE-ESL (A/I)	4500	earthworm	0.13	American Robin

References

"ECORISK Database,"

Table S7-4. Total an

Table S7-4a. Total an

Location	Nickel mg/kg	Nickel Detected	Potassium mg/kg	Potassium Detected
Tsankawi/PM-1	3.1	Y	750	Y
Sacred Area	3.3	Y	870	Y

Table S7-4b. Total ar

Screening Levels	Nickel mg/kg	Nickel Receptor	Potassium mg/kg	Potassium Receptor
RSRL	25	NA	3577	NA
NE-ESL (Plant)	38	plant	NA	NA
LE-ESL (Plant)	270	plant	NA	NA
NE-ESL (A/I)	10	montane shrew	NA	NA
LE-ESL (A/I)	21	montane shrew	NA	NA

References

"ECORISK Database,"

Table S7-4. Total an

Table S7-4a. Total an

Location	Selenium mg/kg	Selenium Detected	Silver mg/kg	Silver Detected	Sodium mg/kg
Tsankawi/PM-1	**0.91**	Y	0.013	Y	44
Sacred Area	**0.74**	Y	0.023	Y	64

Table S7-4b. Total ar

Screening Levels	Selenium mg/kg	Selenium Receptor	Silver mg/kg	Silver Receptor	Sodium mg/kg
RSRL	1.79	NA	0.22	NA	140
NE-ESL (Plant)	0.52	plant	560	plant	NA
LE-ESL (Plant)	3	plant	2800	plant	NA
NE-ESL (A/I)	0.70	montane shrew	2.6	American Robin	NA
LE-ESL (A/I)	1	montane shrew	26	American Robin	NA

References

"ECORISK Database,"

Table S7-4. Total an

Table S7-4a. Total an

Location	Sodium Detected	Thallium mg/kg	Thallium Detected	Vanadium mg/kg
Tsankawi/PM-1	Y	**0.065**	Y	**10**
Sacred Area	Y	**0.058**	Y	**9.2**

Table S7-4b. Total ar

Screening Levels	Sodium Receptor	Thallium mg/kg	Thallium Receptor	Vanadium mg/kg
RSRL	NA	0.48	NA	40
NE-ESL (Plant)	NA	0.05	plant	60
LE-ESL (Plant)	NA	0.5	plant	80
NE-ESL (A/I)	NA	0.42	montane shrew	4.7
LE-ESL (A/I)	NA	4.2	montane shrew	10

References

"ECORISK Database,"

Table S7-4. Total an

Table S7-4a. Total an

Location	Vanadium Detected	Zinc mg/kg	Zinc Detected
Tsankawi/PM-1	Y	38	Y
Sacred Area	Y	22	Y

Table S7-4b. Total ar

Screening Levels	Vanadium Receptor	Zinc mg/kg	Zinc Receptor
RSRL	NA	50	NA
NE-ESL (Plant)	plant	160	plant
LE-ESL (Plant)	plant	810	plant
NE-ESL (A/I)	American Robin	47	American Robin
LE-ESL (A/I)	American Robin	120	American Robin

References

"ECORISK Database,"

Table S7-6. Total analyte list concentrations (mg/kg) in soil (0- to 2-inch depth) and sediment (0- to 6-inch depth) collected fro

Table S7-6a. Total analyte list concentrations.

Location	Media	Aluminum mg/kg	Aluminum Detected	Antimony mg/kg
East	Soil	4800	Y	0.13
South	Soil	5300	Y	0.14
West	Soil	7400	Y	0.41
North	Soil	7100	Y	0.21
North FS	Soil	8000	Y	0.17
North FS	Soil	4700	Y	0.14
East	Sediment	4300	Y	0.14
Southwest	Sediment	6700	Y	0.15
South	Sediment	4000	Y	0.17
North	Sediment	3600	Y	0.07

Table S7-6b. Total screening level analyte list concentrations.

Screening Levels	luminum mg/k	Aluminum Receptor	Antimony mg/kg	Antimony Receptor
BSRL	NA	NA	0.48	NA
RSRL	15289	NA	0.42	NA
NE-ESL (Plant)	NA	NA	11	plant
LE-ESL (Plant)	NA	NA	58	plant
NE-ESL (A/I)	NA	NA	2.3	deer mouse
LE-ESL (A/I)	NA	NA	23	deer mouse

References

Fresquez, P.R., J.W. Nyhan, and H.T Haagenstad. 2001. "Baseline concentrations of radionuclides and trace elements in soils, sedime
"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62152

Table S7-6. Total analym within and around the perimeter of the DARHT Facility in 2020.

Table S7-6a. Total analy

Location	Antimony Detected	Arsenic mg/kg	Arsenic Detected	Barium mg/kg
East	Y	2.4	Y	79
South	Y	2.6	Y	87
West	Y	2.6	Y	**150**
North	Y	2.8	Y	**140**
North FS	Y	2.8	Y	**130**
North FS	Y	2.9	Y	87
East	Y	1.7	Y	72
Southwest	Y	2.4	Y	100
South	Y	2.0	Y	66
North	Y	1.4	Y	50

Table S7-6b. Total scree

Screening Levels	Arsenic mg/kg	Arsenic Receptor	Barium mg/kg	Barium Receptor
BSRL	4.0	NA	178	NA
RSRL	7.9	NA	337	NA
NE-ESL (Plant)	18	plant	110	plant
LE-ESL (Plant)	91	plant	260	plant
NE-ESL (A/I)	6.8	earthworm	330	earthworm
LE-ESL (A/I)	68	earthworm	3200	earthworm

References

Fresquez, P.R., J.W. Nyhnts, vegetation, small mammals, birds, and bees around the DARHT Facility; construction phase (1996 through 199
"ECORISK Database," R4, accessed Feb 2021

Table S7-6. Total analy

Table S7-6a. Total analy

Location	Barium Detected	Beryllium mg/kg	Beryllium Detected	Cadmium mg/kg
East	Y	0.62	Y	0.063
South	Y	0.67	Y	0.075
West	Y	0.80	Y	0.096
North	Y	0.73	Y	0.110
North FS	Y	0.87	Y	0.076
North FS	Y	0.52	Y	0.059
East	Y	0.62	Y	0.180
Southwest	Y	0.79	Y	0.072
South	Y	0.47	Y	0.095
North	Y	0.34	Y	0.031

Table S7-6b. Total scree

Screening Levels	Beryllium mg/kg	Beryllium Receptor	Cadmium mg/kg	Cadmium Receptor
BSRL	1.3	NA	0.67	NA
RSRL	1.22	NA	0.33	NA
NE-ESL (Plant)	2.5	plant	32	plant
LE-ESL (Plant)	25	plant	160	plant
NE-ESL (A/I)	18	montane shrew	0.3	montane shrew
LE-ESL (A/I)	180	montane shrew	3.6	montane shrew

References

Fresquez, P.R., J.W. NyÐ)," Los Alamos National Laboratroy report LA-13808-MS.
"ECORISK Database," R4

Table S7-6. Total analy

Table S7-6a. Total analy

Location	Cadmium Detected	Calcium mg/kg	Calcium Deteced	Chromium mg/kg
East	Y	1700	Y	6.5
South	Y	3800	Y	5.6
West	Y	3000	Y	8.2
North	Y	2000	Y	8.4
North FS	Y	3300	Y	8.7
North FS	Y	2100	Y	5.7
East	Y	2500	Y	14
Southwest	Y	3200	Y	6.4
South	Y	1700	Y	6.6
North	Y	760	Y	4.3

Table S7-6b. Total scree

Screening Levels	Calcium mg/kg	Calcium Deteced	Chromium mg/kg	Chromium Receptor
BSRL	NA	NA	18	NA
RSRL	50573	NA	27	NA
NE-ESL (Plant)	NA	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA	NA
NE-ESL (A/I)	NA	NA	23	American Robin
LE-ESL (A/I)	NA	NA	73	American Robin

References

Fresquez, P.R., J.W. Nyl
"ECORISK Database," R4

Table S7-6. Total analy

Table S7-6a. Total analy

Location	Chromium Detected	Cobalt mg/kg	Cobalt Detected	Copper mg/kg
East	Y	3.9	Y	4.9
South	Y	3.0	Y	5.3
West	Y	4.8	Y	6.9
North	Y	5.5	Y	7.4
North FS	Y	4.7	Y	10
North FS	Y	3.4	Y	6.1
East	Y	2.4	Y	**15**
Southwest	Y	3.3	Y	6.1
South	Y	3.1	Y	11
North	Y	3.0	Y	2.4

Table S7-6b. Total scree

Screening Levels	Cobalt mg/kg	Cobalt Receptor	Copper mg/kg	Copper Receptor
BSRL	NA	NA	86	NA
RSRL	13	NA	17	NA
NE-ESL (Plant)	13	plant	70	plant
LE-ESL (Plant)	130	plant	490	plant
NE-ESL (A/I)	76	American Robin	14	American Robin
LE-ESL (A/I)	170	American Robin	43	American Robin

References

Fresquez, P.R., J.W. Nyl
"ECORISK Database," R4

Table S7-6. Total analy

Table S7-6a. Total analy

Location	Copper Detected	Iron mg/kg	Iron Detected	Lead mg/kg	Lead Detected
East	Y	11000	Y	8.5	Y
South	Y	11000	Y	9.8	Y
West	Y	12000	Y	**12**	Y
North	Y	14000	Y	**14**	Y
North FS	Y	14000	Y	11	Y
North FS	Y	9700	Y	6.8	Y
East	Y	9300	Y	7.4	Y
Southwest	Y	12000	Y	10	Y
South	Y	10000	Y	9.6	Y
North	Y	8800	Y	6.2	Y

Table S7-6b. Total scree

Screening Levels	Iron mg/kg	Iron Receptor	Lead mg/kg	Lead Receptor	Magnesium mg/kg
BSRL	NA	NA	16	NA	NA
RSRL	22956	NA	19	NA	5578
NE-ESL (Plant)	NA	NA	120	plant	NA
LE-ESL (Plant)	NA	NA	570	plant	NA
NE-ESL (A/I)	NA	NA	11	American Robin	NA
LE-ESL (A/I)	NA	NA	23	American Robin	NA

References

Fresquez, P.R., J.W. Nyl
"ECORISK Database," R4

Table S7-6. Total analy

Table S7-6a. Total analy

Location	Magnesium mg/kg	Magnesium Detected	Manganese mg/kg
East	1200	Y	220
South	1500	Y	**260**
West	1600	Y	**350**
North	1600	Y	**410**
North FS	1900	Y	**300**
North FS	1600	Y	210
East	1100	Y	150
Southwest	1500	Y	**260**
South	1300	Y	**230**
North	830	Y	**230**

Table S7-6b. Total scree

Screening Levels	Magnesium Receptor	Manganese mg/kg	Manganese Receptor
BSRL	NA	NA	NA
RSRL	NA	1304	NA
NE-ESL (Plant)	NA	220	plant
LE-ESL (Plant)	NA	1100	plant
NE-ESL (A/I)	NA	450	earthworm
LE-ESL (A/I)	NA	4500	earthworm

References

Fresquez, P.R., J.W. Nyl
"ECORISK Database," R4

Table S7-6. Total analy

Table S7-6a. Total analy

Location	Manganese Detected	Mercury mg/kg	Mercury Detected	Nickel mg/kg
East	Y	**0.014**	Y	5.2
South	Y	0.012	Y	6.1
West	Y	**0.020**	Y	7.1
North	Y	**0.023**	Y	6.4
North FS	Y	**0.017**	Y	7.9
North FS	Y	**0.014**	Y	4.7
East	Y	**0.016**	Y	4.8
Southwest	Y	0.013	Y	6.0
South	Y	**0.019**	Y	5.7
North	Y	0.005	Y	3.5

Table S7-6b. Total scree

Screening Levels	Mercury mg/kg	Mercury Receptor	Nickel mg/kg	Nickel Receptor
BSRL	0.05	NA	12	NA
RSRL	0.041	NA	25	NA
NE-ESL (Plant)	34	plant	38	plant
LE-ESL (Plant)	64	plant	270	plant
NE-ESL (A/I)	0.013	American Robin	10	montane shrew
LE-ESL (A/I)	0.13	American Robin	21	montane shrew

References

Fresquez, P.R., J.W. Nyl
"ECORISK Database," R4

Table S7-6. Total analy

Table S7-6a. Total analy

Location	Nickel Detected	Potassium mg/kg	Potassium Detected	Selenium mg/kg
East	Y	1500	Y	**0.81**
South	Y	1500	Y	**1.1**
West	Y	1900	Y	**0.94**
North	Y	1800	Y	**0.82**
North FS	Y	1800	Y	**0.92**
North FS	Y	1200	Y	**0.61**
East	Y	1300	Y	**0.99**
Southwest	Y	1700	Y	**0.94**
South	Y	1700	Y	**0.84**
North	Y	980	Y	0.44

Table S7-6b. Total scree

Screening Levels	Potassium mg/kg	Potassium Receptor	Selenium mg/kg	Selenium Receptor
BSRL	NA	NA	0.68	NA
RSRL	3577	NA	1.79	NA
NE-ESL (Plant)	NA	NA	0.52	plant
LE-ESL (Plant)	NA	NA	3	plant
NE-ESL (A/I)	NA	NA	0.70	montane shrew
LE-ESL (A/I)	NA	NA	1	montane shrew

References

Fresquez, P.R., J.W. Nyl
"ECORISK Database," R4

Table S7-6. Total analy

Table S7-6a. Total analy

Location	Selenium Detected	Silver mg/kg	Silver Detected	Sodium mg/kg
East	Y	0.022	Y	80
South	Y	0.025	Y	120
West	Y	0.025	Y	88
North	Y	0.021	Y	93
North FS	Y	0.027	Y	97
North FS	Y	0.024	Y	120
East	Y	0.035	Y	**320**
Southwest	Y	0.024	Y	91
South	Y	0.022	Y	**740**
North	Y	0.008	Y	60

Table S7-6b. Total scree

Screening Levels	Silver mg/kg	Silver Receptor	Sodium mg/kg	Sodium Receptor
BSRL	2.1	NA	NA	NA
RSRL	0.22	NA	140	NA
NE-ESL (Plant)	560	plant	NA	NA
LE-ESL (Plant)	2800	plant	NA	NA
NE-ESL (A/I)	2.6	American Robin	NA	NA
LE-ESL (A/I)	26	American Robin	NA	NA

References

Fresquez, P.R., J.W. Nyl
"ECORISK Database," R4

Table S7-6. Total analy

Table S7-6a. Total analy

Location	Sodium Detected	Thallium mg/kg	Thallium Detected	Vanadium mg/kg
East	Y	**0.12**	Y	**17**
South	Y	**0.17**	Y	**13**
West	Y	**0.21**	Y	**19**
North	Y	**0.15**	Y	**22**
North FS	Y	**0.15**	Y	**20**
North FS	Y	**0.09**	Y	**15**
East	Y	**0.08**	Y	**16**
Southwest	Y	**0.13**	Y	**15**
South	Y	**0.07**	Y	**13**
North	Y	**0.08**	Y	**11**

Table S7-6b. Total scree

Screening Levels	Thallium mg/kg	Thallium Receptor	Vanadium mg/kg	Vanadium Receptor
BSRL	0.49	NA	NA	NA
RSRL	0.48	NA	40	NA
NE-ESL (Plant)	0.05	plant	60	plant
LE-ESL (Plant)	0.5	plant	80	plant
NE-ESL (A/I)	0.42	montane shrew	4.7	American Robin
LE-ESL (A/I)	4.2	montane shrew	10	American Robin

References

Fresquez, P.R., J.W. Nyl
"ECORISK Database," R4

Table S7-6. Total analy

Table S7-6a. Total analy

Location	Vanadium Detected	Zinc mg/kg	Zinc Detected
East	Y	24	Y
South	Y	31	Y
West	Y	31	Y
North	Y	30	Y
North FS	Y	45	Y
North FS	Y	22	Y
East	Y	**82**	Y
Southwest	Y	36	Y
South	Y	**70**	Y
North	Y	20	Y

Table S7-6b. Total scree

Screening Levels	Zinc mg/kg	Zinc Receptor
BSRL	NA	NA
RSRL	50	NA
NE-ESL (Plant)	160	plant
LE-ESL (Plant)	810	plant
NE-ESL (A/I)	47	American Robin
LE-ESL (A/I)	120	American Robin

References

Fresquez, P.R., J.W. Nyl
"ECORISK Database," R4

Table S7-5. Radionuclide concentrations in soil (0- to 2-inch depth) and sediment (0- to 6-inch depth) collected around the perimeter of the DARHT facility in 2020.

Table S7-5a. Radionuclide concentrations.

Location	Media	^{3}H pCi/g	H Uncertaint	^{3}H Detected	^{241}Am pCi/g	Am Uncertai	^{41}Am Detecte	^{137}Cs pCi/g	^{37}Cs Uncertaint	^{137}Cs Detected	^{238}Pu pCi/g	^{8}Pu Uncertain	^{238}Pu Detected	^{239,240}Pu pCi/g
East	Soil	0.0018	0.0027	N	0.0048	0.0058	N	0.0600	0.0870	N	0.0037	0.0026	N	0.0146
South	Soil	0.0238	0.0048	Y	-0.0062	0.0044	N	0.0430	0.0550	N	0.0061	0.0032	N	0.0105
West	Soil	0.0039	0.0030	N	0.0173	0.0069	N	0.0000	0.0700	N	0.0021	0.0026	N	0.0157
North	Soil	-0.0026	0.0023	N	0.0082	0.0058	N	**0.6600**	0.1200	Y	0.0068	0.0030	N	**0.0455**
North FS	Soil	0.0032	0.0027	N	-0.0005	0.0046	N	-0.0220	0.0530	N	**0.0062**	0.0026	Y	0.0144
North FS	Soil	0.0010	0.0027	N	0.0038	0.0053	N	0.0910	0.0690	N	**0.0072**	0.0026	Y	0.0109
East	Sediment	0.0052	0.0030	N	-0.0037	0.0043	N	-0.0840	0.0890	N	**0.0100**	0.0034	Y	0.0055
Southwest	Sediment	0.0169	0.0043	Y	0.0030	0.0052	N	0.1020	0.0810	N	**0.0122**	0.0036	Y	0.0132
South	Sediment	0.0066	0.0034	N	-0.0002	0.0050	N	0.0340	0.0700	N	0.0056	0.0030	N	0.0093
North	Sediment	0.0085	0.0030	N	-0.0054	0.0043	N	0.0640	0.0440	N	0.0039	0.0024	Y	0.0096

Table S7-5b. Radionuclide concentrations.

Screening Levels	^{3}H pCi/g	^{3}H Receptor	^{241}Am pCi/g	41Am Recept	^{137}Cs pCi/g	37Cs Recepto	^{238}Pu pCi/g	238Pu Receptor	^{239,240}Pu pCi/g	9,240Pu Recep	^{90}Sr pCi/g	90Sr Receptor	^{234}U pCi/g	234U Receptor
BSRL	0.690	NA	0.010	NA	0.360	NA	0.004	NA	0.023	NA	0.800	NA	3.10	NA
RSRL	0.071	NA	0.019	NA	0.734	NA	0.031	NA	0.057	NA	0.422	NA	1.50	NA
NE-ESL (Plant)	36000	plant	500	plant	1500	plant	1800	plant	1900	plant	1100	plant	440	plant
LE-ESL (Plant)	360000	plant	5000	plant	15000	plant	18000	plant	19000	plant	11000	plant	4400	plant
NE-ESL (A/I)	48000	earthworm	190	earthworm	1400	American robi	820	earthworm	870	earthworm	340	American robin	2200	earthworm
LE-ESL (A/I)	480000	earthworm	1900	earthworm	14000	American robi	8200	earthworm	8700	earthworm	3400	American robin	22000	earthworm

References

Fresquez, P.R., J.W. Nyhan, and H.T Haagenstad. 2001. "Baseline concentrations of radionuclides and trace elements in soils, sediments, vegetation, small mammals, birds, and bees around the DARHT Facility; construction phase (1996 thro

"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62152, accessed Feb 2021

Table S7-5. Radionucl

Table S7-5a. Radionucl

Location	^{240}Pu Uncertai	^{9,240}Pu Detecte	^{90}Sr pCi/g	^{90}Sr Uncertainty	^{90}Sr Detected	^{234}U pCi/g	^{34}U Uncertaint	^{234}U Detected	$^{235/236}$U pCi/g	$^{/236}$U Uncertair	$^{35/236}$U Detecte	^{238}U pCi/g	^{38}U Uncertaint	^{238}U Detected
East	0.0044	Y	0.0750	0.0250	Y	**1.660**	0.1400	Y	0.0750	0.0120	Y	**1.8**	0.15	Y
South	0.0031	Y	-0.0070	0.0220	N	0.7130	0.0610	Y	0.0481	0.0085	Y	0.79	0.067	Y
West	0.0047	Y	0.0220	0.0220	N	**1.810**	0.1600	Y	**0.0950**	0.0170	Y	**1.96**	0.17	Y
North	0.0076	Y	0.1640	0.0320	Y	**5.180**	0.4100	Y	**0.2750**	0.0300	Y	**6.01**	0.47	Y
North FS	0.0040	Y	0.0230	0.0220	N	**1.770**	0.1400	Y	**0.1220**	0.0160	Y	**4.44**	0.35	Y
North FS	0.0032	Y	0.0410	0.0220	N	**1.680**	0.1400	Y	**0.0980**	0.0140	Y	**2.92**	0.23	Y
East	0.0023	Y	0.0030	0.0230	N	**1.580**	0.1300	Y	**0.0950**	0.0130	Y	**4.94**	0.39	Y
Southwest	0.0041	Y	0.3240	0.0460	Y	1.210	0.1000	Y	0.0720	0.0110	Y	1.47	0.12	Y
South	0.0038	N	0.0340	0.0220	N	0.8830	0.0740	Y	0.0599	0.0094	Y	1.36	0.11	Y
North	0.0037	Y	0.0410	0.0210	N	0.8110	0.0700	Y	0.0467	0.0089	Y	1.01	0.085	Y

Table S7-5b. Radionucl

Screening Levels	$^{235/236}$U pCi/g	5/236U Recept	^{238}U pCi/g	238U Receptor
BSRL	0.130	NA	2.80	NA
RSRL	0.079	NA	1.48	NA
NE-ESL (Plant)	440	plant	400	plant
LE-ESL (Plant)	4400	plant	4000	plant
NE-ESL (A/I)	1600	earthworm	1100	earthworm
LE-ESL (A/I)	16000	earthworm	11000	earthworm

References

Fresquez, P.R., J.W. Nyugh 1999)," Los Alamos National Laboratroy report LA-13808-MS.
"ECORISK Database," R

Table S7-7. PFAS chemical concentrations (ng/kg) in soil (0- to 2-inch depth) and sediment (0- to 6-inch depth) collected from within

Table S7-7a. PFAS chemical concentrations.

Location	Media	ethyl perfluorooctanesulfonamidoacetic acid[N-] (NEtFOSAA) ng/kg	ethyl perfluorooctanesulfonamidoacetic acid[N-] (NEtFOSAA) Detected
East	Soil	0.282	N
South	Soil	0.266	N
West	Soil	0.268	N
North	Soil	0.270	N
North FS	Soil	0.976	N
North FS	Soil	0.263	N
East	Sediment	0.273	N
Southwest	Sediment	0.273	N
South	Sediment	0.283	N
North	Sediment	0.267	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62152, acces

Table S7-7. PFAS chemical concen and around the perimeter of the DARHT Facility in 2020.

Table S7-7a. PFAS chemical concen

Location	Media	methyl perfluorooctanesulfonamidoacetic acid[N-] (NMeFOSAA) ng/kg	methyl perfluorooctanesulfonamidoacetic acid[N-] (NMeFOSAA) Detected
East	Soil	0.338	N
South	Soil	0.320	N
West	Soil	0.322	N
North	Soil	0.324	N
North FS	Soil	0.976	N
North FS	Soil	0.315	N
East	Sediment	0.328	N
Southwest	Sediment	0.327	N
South	Sediment	0.340	N
North	Sediment	0.320	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://wsed Feb 2021

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluorobutanesulfonic acid (PFBS) ng/kg	Perfluorobutanesulfonic acid (PFBS) Detected
East	Soil	0.169	N
South	Soil	0.160	N
West	Soil	0.161	N
North	Soil	0.162	N
North FS	Soil	0.488	N
North FS	Soil	0.158	N
East	Sediment	0.164	N
Southwest	Sediment	0.164	N
South	Sediment	0.170	N
North	Sediment	0.160	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://w

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluorodecanoic acid (PFDA) ng/kg	Perfluorodecanoic acid (PFDA) Detected
East	Soil	0.379	N
South	Soil	1.120	Y
West	Soil	0.361	N
North	Soil	0.363	N
North FS	Soil	0.684	Y
North FS	Soil	0.495	Y
East	Sediment	8.57	Y
Southwest	Sediment	0.367	N
South	Sediment	1.79	Y
North	Sediment	0.359	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://w

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluorododecanoic acid (PFDoDA) ng/kg	Perfluorododecanoic acid (PFDoDA) Detected
East	Soil	0.169	N
South	Soil	0.160	N
West	Soil	0.161	N
North	Soil	0.162	N
North FS	Soil	0.488	N
North FS	Soil	0.158	N
East	Sediment	1.34	Y
Southwest	Sediment	0.164	N
South	Sediment	2.24	Y
North	Sediment	0.160	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://w

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluoroheptanoic acid (PFHpA) ng/kg	Perfluoroheptanoic acid (PFHpA) Detected
East	Soil	0.301	Y
South	Soil	0.745	Y
West	Soil	0.161	N
North	Soil	0.162	N
North FS	Soil	0.488	N
North FS	Soil	0.158	N
East	Sediment	3.77	Y
Southwest	Sediment	0.164	N
South	Sediment	0.342	Y
North	Sediment	0.160	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://w

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluorohexanesulfonic acid (PFHxS) ng/kg	Perfluorohexanesulfonic acid (PFHxS) Detected
East	Soil	0.169	N
South	Soil	0.870	Y
West	Soil	0.161	N
North	Soil	0.162	N
North FS	Soil	0.488	N
North FS	Soil	0.158	N
East	Sediment	0.640	Y
Southwest	Sediment	0.164	N
South	Sediment	0.176	Y
North	Sediment	0.160	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://w

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluorohexanoic acid (PFHxA) ng/kg	Perfluorohexanoic acid (PFHxA) Detected
East	Soil	0.205	N
South	Soil	0.462	Y
West	Soil	0.195	N
North	Soil	0.196	N
North FS	Soil	0.488	N
North FS	Soil	0.191	N
East	Sediment	8.63	Y
Southwest	Sediment	0.198	N
South	Sediment	0.239	Y
North	Sediment	0.194	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://w

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluorononanoic acid (PFNA) ng/kg	Perfluorononanoic acid (PFNA) Detected
East	Soil	0.498	Y
South	Soil	1.50	Y
West	Soil	0.161	N
North	Soil	0.165	Y
North FS	Soil	0.513	Y
North FS	Soil	0.204	Y
East	Sediment	3.82	Y
Southwest	Sediment	0.255	Y
South	Sediment	0.526	Y
North	Sediment	0.160	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://w

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluorooctanesulfonic acid (PFOS) ng/kg	Perfluorooctanesulfonic acid (PFOS) Detected
East	Soil	0.373	Y
South	Soil	11.00	Y
West	Soil	0.346	Y
North	Soil	0.226	Y
North FS	Soil	1.58	Y
North FS	Soil	0.628	Y
East	Sediment	42.7	Y
Southwest	Sediment	0.613	Y
South	Sediment	2.80	Y
North	Sediment	0.194	N
NE-ESL (Plant)	NA	62200	NA
LE-ESL (Plant)	NA	80800	NA
NE-ESL (A/I)	NA	1800	NA
LE-ESL (A/I)	NA	81500	NA

References

"ECORISK Database," R4.2, https://w

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluorooctanoic acid (PFOA) ng/kg	Perfluorooctanoic acid (PFOA) Detected
East	Soil	0.804	Y
South	Soil	1.470	Y
West	Soil	0.195	N
North	Soil	0.303	Y
North FS	Soil	0.488	N
North FS	Soil	0.191	N
East	Sediment	5.06	Y
Southwest	Sediment	0.341	Y
South	Sediment	0.517	Y
North	Sediment	0.194	N
NE-ESL (Plant)	NA	41100	NA
LE-ESL (Plant)	NA	62100	NA
NE-ESL (A/I)	NA	12200	NA
LE-ESL (A/I)	NA	101100	NA

References

"ECORISK Database," R4.2, https://w

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluorotetradecanoic acid (PFTeDA) ng/kg	Perfluorotetradecanoic acid (PFTeDA) Detected
East	Soil	0.205	N
South	Soil	0.194	N
West	Soil	0.195	N
North	Soil	0.196	N
North FS	Soil	0.488	N
North FS	Soil	0.191	N
East	Sediment	0.333	Y
Southwest	Sediment	0.198	N
South	Sediment	0.669	Y
North	Sediment	0.194	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://w

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluorotridecanoic acid (PFTrDA) ng/kg	Perfluorotridecanoic acid (PFTrDA) Detected
East	Soil	0.169	N
South	Soil	0.160	N
West	Soil	0.161	N
North	Soil	0.162	N
North FS	Soil	0.488	N
North FS	Soil	0.158	N
East	Sediment	0.344	Y
Southwest	Sediment	0.164	N
South	Sediment	1.28	Y
North	Sediment	0.160	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://w

Table S7-7. PFAS chemical concen

Table S7-7a. PFAS chemical concent

Location	Media	Perfluoroundecanoic acid (PFUnDA) ng/kg	Perfluoroundecanoic acid (PFUnDA) Detected
East	Soil	0.169	N
South	Soil	0.320	Y
West	Soil	0.161	N
North	Soil	0.162	N
North FS	Soil	0.204	Y
North FS	Soil	0.291	Y
East	Sediment	3.68	Y
Southwest	Sediment	0.164	N
South	Sediment	3.05	Y
North	Sediment	0.160	N
NE-ESL (Plant)	NA	NA	NA
LE-ESL (Plant)	NA	NA	NA
NE-ESL (A/I)	NA	NA	NA
LE-ESL (A/I)	NA	NA	NA

References

"ECORISK Database," R4.2, https://w

Table S7-8. Radionuclide Concentrations in Native Overstory Vegetation (Branches plus Needles) Collected from around the perime

Table S7-8a. Radionuclide Concentrations.

Location	Americium-241 pCi/g ash	Americium-241 Uncertainty	Americium-241 Detected
North	-0.0002	0.0015	N
East	0.0019	0.0017	N
South	0.0023	0.0017	N
West	-0.0007	0.0013	N

Table S7-8b. Screening Level Radionuclide Concentrations.

Screening Levels	Americium-241 pCi/g ash	Cesium-137 pCi/g ash	Plutonium-238 pCi/g ash
BSRL	0.022	1.8	0.042
RSRL	0.014	0.69	0.016
BDSL	778	103111	822

Table S7-8. Radionuclide ter of the DARHT Facility in 2020.

Table S7-8a. Radionuclid

Location	Cesium-137 pCi/g ash	Cesium-137 Uncertainty	Cesium-137 Detected
North	0.1800	0.2100	N
East	0.0900	0.1900	N
South	-0.5200	0.2800	N
West	-0.3700	0.2300	N

Table S7-8b. Screening L

Screening Levels	Plutonium-239/240 pCi/g ash	Strontium-90 pCi/g ash	Tritium pCi/mL
BSRL	0.0080	9.7	1.3
RSRL	0.012	3.181	2.94
BDSL	822	76444	345000

Table S7-8. Radionuclid

Table S7-8a. Radionuclid

Location	Plutonium-238 pCi/g ash	Plutonium-238 Uncertainty	Plutonium-238 Detected
North	0.0029	0.0012	Y
East	-0.0012	0.0020	N
South	0.0000	0.0014	N
West	0.0022	0.0016	N

Table S7-8b. Screening L

Screening Levels	Uranium-234 pCi/g ash	Uranium-235 pCi/g ash	Uranium-238 pCi/g ash
BSRL	0.93	0.039	0.83
RSRL	0.639	0.032	0.654
BDSL	889	889	987

Table S7-8. Radionuclid

Table S7-8a. Radionuclid

Location	Plutonium-239/240 pCi/g ash	Plutonium-239/240 Uncertainty	Plutonium-239/240 Detected
North	0.0005	0.0012	N
East	0.0037	0.0015	Y
South	0.0040	0.0015	Y
West	0.0016	0.0013	N

Table S7-8b. Screening L

Screening Levels
BSRL
RSRL
BDSL

Table S7-8. Radionuclid

Table S7-8a. Radionuclid

Location	Strontium-90 pCi/g ash	Strontium-90 Uncertainty	Strontium-90 Detected
North	1.040	0.1300	Y
East	1.090	0.1300	Y
South	0.7270	0.0890	Y
West	0.5640	0.0720	Y

Table S7-8b. Screening L

Screening Levels
BSRL
RSRL
BDSL

Table S7-8. Radionuclid

Table S7-8a. Radionuclid

Location	Tritium pCi/mL	Tritium Uncertainty	Tritium Detected	Uranium-234 pCi/g ash
North	0.0470	0.0290	N	0.0604
East	0.2120	0.0440	Y	0.1880
South	0.1500	0.0360	Y	0.2110
West	0.0450	0.0280	N	0.2680

Table S7-8b. Screening L

Screening Levels
BSRL
RSRL
BDSL

Table S7-8. Radionuclid

Table S7-8a. Radionuclid

Location	Uranium-234 Uncertainty	Uranium-234 Detected	Uranium-235 pCi/g ash
North	0.0071	Y	0.0025
East	0.0170	Y	0.0090
South	0.0190	Y	0.0102
West	0.0240	Y	0.0095

Table S7-8b. Screening L

Screening Levels
BSRL
RSRL
BDSL

Table S7-8. Radionuclid

Table S7-8a. Radionuclid

Location	Uranium-235 Uncertainty	Uranium-235 Detected	Uranium-238 pCi/g ash
North	0.0013	N	0.0836
East	0.0023	Y	0.2250
South	0.0024	Y	0.2520
West	0.0024	Y	0.2770

Table S7-8b. Screening L

Screening Levels
BSRL
RSRL
BDSL

Table S7-8. Radionuclid

Table S7-8a. Radionuclid

Location	Uranium-238 Uncertainty	Uranium-238 Detected
North	0.0090	Y
East	0.0200	Y
South	0.0220	Y
West	0.0240	Y

Table S7-8b. Screening L

Screening Levels
BSRL
RSRL
BDSL

Table S7-9. Total analyte list concentrations (mg/kg) in native overstory vegetation (branches plus needles) collected from around the

Table S7-9a. Total analyte list concentrations.

Location	Aluminum (mg/kg)	Aluminum Detected	Antimony (mg/kg)	Antimony Detected
North	11	Y	0.100	Y
East	25	Y	0.020	Y
South	25	Y	0.060	Y
West	19	Y	0.075	Y

Table S7-9b. Screening level analyte list concentrations.

Screening Level	Aluminum (mg/kg)	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)
BSRL	NA	NA	NA	88
RSRL	634	0.1988	0.3582	141

References

Fresquez, P.R., J.W. Nyhan, and H.T Haagenstad. 2001. "Baseline concentrations of radionuclides and trace elements in soils, sediments, veg

Table S7-9. Total ae Perimeter of the DARHT Facility at TA-15 in 2020.

Table S7-9a. Total a

Location	Arsenic (mg/kg)	Arsenic Detected	Barium (mg/kg)	Barium Detected
North	0.041	N	49	Y
East	0.037	N	4.6	Y
South	0.048	N	5.5	Y
West	0.044	N	14	Y

Table S7-9b. Screeni

Screening Level	Beryllium (mg/kg)	Cadmium (mg/kg)	Calcium (mg/kg)	Chromium (mg/kg)
BSRL	0.15	0.72	NA	1.3
RSRL	0.1091	0.4549	22556	0.8120

References

Fresquez, P.R., J.W.getation, small mammals, birds, and bees around the DARHT Facility; construction phase (1996 through 1999)," L

Table S7-9. Total a

Table S7-9a. Total a

Location	Beryllium (mg/kg)	Beryllium Detected	Cadmium (mg/kg)	Cadmium Detected
North	0.046	N	0.019	N
East	0.042	N	0.017	Y
South	0.053	N	0.021	N
West	0.050	N	0.020	N

Table S7-9b. Screeni

Screening Level	Cobalt (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)
BSRL	NA	5.2	NA	7.9
RSRL	0.8051	11.2	767	1.27

References

Fresquez, P.R., J.W.os Alamos National Laboratroy report LA-13808-MS.

Table S7-9. Total a

Table S7-9a. Total a

Location	Calcium (mg/kg)	Calcium Detected	Chromium (mg/kg)	Chromium Detected
North	3600	Y	0.150	N
East	1400	Y	0.140	N
South	2400	Y	0.170	N
West	1300	Y	0.160	N

Table S7-9b. Screeni

Screening Level	Magnesium (mg/kg)	Manganese (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)
BSRL	NA	NA	0.008	NA
RSRL	5962	234	0.0174	4.22

References

Fresquez, P.R., J.W.

Table S7-9. Total a

Table S7-9a. Total a

Location	Cobalt (mg/kg)	Cobalt Detected	Copper (mg/kg)	Copper Detected
North	0.084	N	3.0	Y
East	0.076	N	1.7	Y
South	0.097	N	2.2	Y
West	0.091	N	1.8	Y

Table S7-9b. Screeni

Screening Level	Potassium (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Sodium (mg/kg)
BSRL	NA	0.42	1.2	NA
RSRL	66655	2.58	0.0265	7213

References

Fresquez, P.R., J.W.

Table S7-9. Total a

Table S7-9a. Total a

Location	Iron (mg/kg)	Iron Detected	Lead (mg/kg)	Lead Detected
North	26	Y	0.056	N
East	31	Y	0.050	N
South	42	Y	0.064	N
West	37	Y	0.060	N

Table S7-9b. Screeni

Screening Level	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
BSRL	0.34	NA	NA
RSRL	0.0914	1.54	46.3

References

Fresquez, P.R., J.W.

Table S7-9. Total a

Table S7-9a. Total a

Location	Magnesium (mg/kg)	Magnesium Detected	Manganese (mg/kg)	Manganese Detected
North	830	Y	81	Y
East	560	Y	61	Y
South	710	Y	69	Y
West	510	Y	72	Y

Table S7-9b. Screeni

Screening Level
BSRL
RSRL

References

Fresquez, P.R., J.W.

Table S7-9. Total a

Table S7-9a. Total a

Location	Mercury (mg/kg)	Mercury Detected	Nickel (mg/kg)	Nickel Detected
North	0.002	Y	0.470	Y
East	0.005	Y	0.320	N
South	0.004	Y	0.410	N
West	0.002	Y	0.380	N

Table S7-9b. Screeni

Screening Level
BSRL
RSRL

References

Fresquez, P.R., J.W.

Table S7-9. Total a

Table S7-9a. Total a

Location	Potassium (mg/kg)	Potassium Detected	Selenium (mg/kg)	Selenium Detected
North	3700	Y	0.170	N
East	1800	Y	0.150	N
South	3000	Y	0.190	N
West	2100	Y	0.180	N

Table S7-9b. Screeni

Screening Level
BSRL
RSRL

References

Fresquez, P.R., J.W.

Table S7-9. Total a

Table S7-9a. Total a

Location	Silver (mg/kg)	Silver Detected	Sodium (mg/kg)	Sodium Detected	Thallium (mg/kg)
North	0.007	N	30	N	0.010
East	0.006	N	27	N	0.002
South	0.008	N	110	Y	0.002
West	0.008	N	33	N	0.002

Table S7-9b. Screeni

Screening Level
BSRL
RSRL

References

Fresquez, P.R., J.W.

Table S7-9. Total a

Table S7-9a. Total a

Location	Thallium Detected	Vanadium (mg/kg)	Vanadium Detected	Zinc (mg/kg)
North	Y	0.084	N	10
East	N	0.076	N	18
South	N	0.097	N	14
West	N	0.091	N	8.8

Table S7-9b. Screeni

Screening Level
BSRL
RSRL

References

Fresquez, P.R., J.W.

Table S7-9. Total a

Table S7-9a. Total a

Location	Zinc Detected
North	Y
East	Y
South	Y
West	Y

Table S7-9b. Screeni

Screening Level
BSRL
RSRL

References

Fresquez, P.R., J.W.

Table S7-10. Total analyte list concentrations (mg/kg dry weight) in a passerine eggs collected from around the DARHT Facility in 20

Species	Sample ID	Number of eggs sampled
Western Bluebird	SFB-20-206067	4
Western Bluebird	SFB-20-206068	1
Mountain Bluebird	SFB-20-206069	1
RSRL	NA	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "Impaired reproduction of mallards fed an organic form of selenium," *The Journal of Wildl*

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium in Birds,” Pp. 669-701 in Beyer W.N. and J.P. Meador eds. *Environmental Contaminants*

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Thompson. 2011. "Mercury in Nonmarine Birds and Mammals. Pp. 609-624 in Beyer W.N.

Table S7-10. Total analyte list concentrations (mg20.

Species	Aluminum (mg/kg wet weight)	Aluminum Detected
Western Bluebird	3.4	N
Western Bluebird	13	N
Mountain Bluebird	12	N
RSRL	26.2	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I*fe,* 53: 418-428.

Ohlendorf, H.M. and G.H. Heinz. 2011. "Selenium i*in Biota Interpreting Tissue Concentrations,* 2nd Edition. CRC Press Boca

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Tand J.P. Meador eds. Environmental Contaminants in Biota Interpreting Ti

Table S7-10. Total analyte list concentrations (mg

Species	Antimony (mg/kg wet weight)	Antimony Detected
Western Bluebird	0.074	Y
Western Bluebird	0.21	Y
Mountain Bluebird	0.14	Y
RSRL	0.23	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. "Selenium iRaton, Florida.

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Tissue Concentrations, 2nd Edition. CRC Press Boca Raton, Florida.

Table S7-10. Total analyte list concentrations (mg

Species	Arsenic (mg/kg wet weight)	Arsenic Detected
Western Bluebird	0.031	N
Western Bluebird	0.12	N
Mountain Bluebird	0.1	N
RSRL	0.233	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Barium (mg/kg wet weight)	Barium Detected
Western Bluebird	13	Y
Western Bluebird	9.2	Y
Mountain Bluebird	8	Y
RSRL	124.5	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Beryllium (mg/kg wet weight)	Beryllium Detected
Western Bluebird	0.034	N
Western Bluebird	0.13	N
Mountain Bluebird	0.12	N
RSRL	0.262	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Cadmium (mg/kg wet weight)	Cadmium Detected
Western Bluebird	0.014	N
Western Bluebird	0.053	N
Mountain Bluebird	0.047	N
RSRL	0.104	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Calcium (mg/kg wet weight)	Calcium Detected
Western Bluebird	3200	Y
Western Bluebird	2900	Y
Mountain Bluebird	2500	Y
RSRL	18838	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Chromium (mg/kg wet weight)	Chromium Detected
Western Bluebird	0.22	N
Western Bluebird	0.43	N
Mountain Bluebird	0.38	N
RSRL	0.83	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Cobalt (mg/kg wet weight)	Cobalt Detected
Western Bluebird	0.062	N
Western Bluebird	0.24	N
Mountain Bluebird	0.21	N
RSRL	0.474	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Copper (mg/kg wet weight)	Copper Detected
Western Bluebird	2.4	Y
Western Bluebird	3.6	Y
Mountain Bluebird	2.4	Y
RSRL	4.65	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Iron (mg/kg wet weight)	Iron Detected	Lead (mg/kg wet weight)
Western Bluebird	130	Y	0.041
Western Bluebird	140	Y	0.16
Mountain Bluebird	100	Y	0.14
RSRL	292	NA	0.430
LOAEL	NA	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Lead Detected	Magnesium (mg/kg wet weight)
Western Bluebird	N	330
Western Bluebird	N	340
Mountain Bluebird	N	320
RSRL	NA	620
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Magnesium Detected	Manganese (mg/kg wet weight)
Western Bluebird	Y	3.4
Western Bluebird	Y	1.1
Mountain Bluebird	Y	1.1
RSRL	NA	3.88
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Manganese Detected	Mercury (mg/kg wet weight)
Western Bluebird	Y	0.016
Western Bluebird	Y	0.049
Mountain Bluebird	Y	0.016
RSRL	NA	0.192
LOAEL	NA	1.9

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. "Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Mercury Detected	Nickel (mg/kg wet weight)	Nickel Detected
Western Bluebird	Y	0.26	N
Western Bluebird	Y	1	N
Mountain Bluebird	Y	0.9	N
RSRL	NA	2.00	NA
LOAEL	NA	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Potassium (mg/kg wet weight)	Potassium Detected
Western Bluebird	7100	Y
Western Bluebird	8600	Y
Mountain Bluebird	10000	Y
RSRL	11225	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Selenium (mg/kg wet weight)	Selenium Detected
Western Bluebird	2.4	Y
Western Bluebird	2.4	Y
Mountain Bluebird	**3.0**	Y
RSRL	4.0	NA
LOAEL	2.6	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Silver (mg/kg wet weight)	Silver Detected
Western Bluebird	0.0052	N
Western Bluebird	0.02	N
Mountain Bluebird	0.018	N
RSRL	0.039	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Sodium (mg/kg wet weight)	Sodium Detected
Western Bluebird	7000	Y
Western Bluebird	9000	Y
Mountain Bluebird	10000	Y
RSRL	11221	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Thallium (mg/kg wet weight)	Thallium Detected
Western Bluebird	0.014	N
Western Bluebird	0.017	Y
Mountain Bluebird	0.0053	N
RSRL	0.0263	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Vanadium (mg/kg wet weight)	Vanadium Detected
Western Bluebird	0.062	N
Western Bluebird	0.24	N
Mountain Bluebird	0.21	N
RSRL	0.474	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-10. Total analyte list concentrations (mg

Species	Zinc (mg/kg wet weight)	Zinc Detected
Western Bluebird	57	Y
Western Bluebird	36	Y
Mountain Bluebird	35	Y
RSRL	61.9	NA
LOAEL	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "I

Ohlendorf, H.M. and G.H. Heinz. 2011. “Selenium i

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Th

Table S7-11. Total analyte list concentrations in passerine eggs and one nestling collected from firing sites during 2020. Results are reported on a

Location	Sample ID	Sample Type	Number of Samples	Species (number of samples)
TA-16 Burn Grounds	SFB-20-206077	Eggs	1	Western Bluebird
TA-16 Burn Grounds	SFB-20-206078	Eggs	1	Western Bluebird
TA-16 Burn Grounds	SFB-20-206079	Eggs	1	Western Bluebird
TA-16 Burn Grounds	SFB-20-206080	Eggs	2	Western Bluebird
TA-36 Minie	SFB-20-206081	Eggs	1	Western Bluebird
TA-16 Burn Grounds	SFB-20-206083	Nestling	1	Western Bluebird
Background Location	SFB-200206085	Nestling	1	Western Bluebird
RSRL	NA	NA	NA	NA
LOAEL	NA	NA	NA	NA

References

Heinz, G.H., D.J. Hoffman, and L.G> Gold. 1989. "Impaired reproduction of mallards fed an organic form of selenium," *The Journal of Wildlife,* 53: 418

Ohlendorf, H.M. and G.H. Heinz. 2011. "Selenium in Birds," Pp. 669-701 in Beyer W.N. and J.P. Meador eds. *Environmental Contaminants in Biota Int*

Shore, R.F., M.G. Pereira, L.A. Walker, and D.R. Thompson. 2011. "Mercury in Nonmarine Birds and Mammals. Pp. 609-624 in Beyer W.N. and J.P. M

Table S7-11. Total analyte a dry weight basis.

Location	Aluminum (mg/kg)	Aluminum Detected	Antimony (mg/kg)	Antimony Detected	Arsenic (mg/kg)
TA-16 Burn Grounds	17.00	N	0.140	Y	0.150
TA-16 Burn Grounds	16.00	N	0.140	Y	0.140
TA-16 Burn Grounds	14.00	N	0.130	Y	0.120
TA-16 Burn Grounds	6.00	N	0.087	Y	0.053
TA-36 Minie	17.00	N	0.19	Y	0.150
TA-16 Burn Grounds	19.00	Y	0.041	Y	0.150
Background Location	25.00	Y	0.022	Y	0.028
RSRL	26.2	NA	0.228	NA	0.233
LOAEL	NA	NA	NA	NA	NA

References

Heinz, G.H., D.J. Hoffman, 8-428.

Ohlendorf, H.M. and G.H. H*erpreting Tissue Concentrations,* 2nd Edition. CRC Press Boca Raton, Florida.

Shore, R.F., M.G. Pereira, Leador eds. *Environmental Contaminants in Biota Interpreting Tissue Concentrations* , 2nd Edition. CRC Press Boca

Table S7-11. Total analyte

Location	Arsenic Detected	Barium (mg/kg)	Barium Detected	Beryllium (mg/kg)	Beryllium Detected
TA-16 Burn Grounds	N	95	Y	0.170	N
TA-16 Burn Grounds	N	55	Y	0.160	N
TA-16 Burn Grounds	N	8	Y	0.140	N
TA-16 Burn Grounds	N	85	Y	0.060	N
TA-36 Minie	N	17	Y	0.170	N
TA-16 Burn Grounds	Y	7	Y	0.031	N
Background Location	Y	2	Y	0.012	N
RSRL	NA	124	NA	0.262	NA
LOAEL	NA	NA	NA	NA	NA

References

Heinz, G.H., D.J. Hoffman, a

Ohlendorf, H.M. and G.H. H

Shore, R.F., M.G. Pereira, L.Raton, Florida.

Table S7-11. Total analyte

Location	Cadmium (mg/kg)	Cadmium Detected	Calcium (mg/kg)	Calcium Detected	Chromium (mg/kg)
TA-16 Burn Grounds	0.067	N	1900	Y	0.55
TA-16 Burn Grounds	0.064	N	3300	Y	0.52
TA-16 Burn Grounds	0.055	N	3600	Y	0.45
TA-16 Burn Grounds	0.024	N	2500	Y	0.20
TA-36 Minie	0.067	N	17000	Y	0.550
TA-16 Burn Grounds	0.110	Y	2800	Y	0.14
Background Location	0.036	Y	2100	Y	0.11
RSRL	0.104	NA	18838	NA	0.831
LOAEL	NA	NA	NA	NA	NA

References

Heinz, G.H., D.J. Hoffman, a

Ohlendorf, H.M. and G.H. H

Shore, R.F., M.G. Pereira, L.

Table S7-11. Total analyte

Location	Chromium Detected	Cobalt (mg/kg)	Cobalt Detected	Copper (mg/kg)	Copper Detected
TA-16 Burn Grounds	N	0.310	N	3.70	Y
TA-16 Burn Grounds	N	0.290	N	3.00	Y
TA-16 Burn Grounds	N	0.250	N	2.20	Y
TA-16 Burn Grounds	N	0.110	N	2.60	Y
TA-36 Minie	N	0.300	N	4.10	Y
TA-16 Burn Grounds	Y	0.056	N	6.40	Y
Background Location	Y	0.023	N	3.40	Y
RSRL	NA	0.474	NA	4.65	NA
LOAEL	NA	NA	NA	NA	NA

References

Heinz, G.H., D.J. Hoffman, a

Ohlendorf, H.M. and G.H. H

Shore, R.F., M.G. Pereira, L.

Table S7-11. Total analyte

Location	Iron (mg/kg)	Iron Detected	Lead (mg/kg)	Lead Detected	Magnesium (mg/kg)	Magnesium Detected
TA-16 Burn Grounds	150	Y	0.390	Y	300	Y
TA-16 Burn Grounds	150	Y	0.190	N	270	Y
TA-16 Burn Grounds	280	Y	0.170	N	360	Y
TA-16 Burn Grounds	150	Y	0.072	N	380	Y
TA-36 Minie	150	Y	0.200	N	530	Y
TA-16 Burn Grounds	60	Y	0.097	Y	280	Y
Background Location	44	Y	0.045	Y	210	Y
RSRL	292	NA	0.430	NA	620	NA
LOAEL	NA	NA	NA	NA	NA	NA

References

Heinz, G.H., D.J. Hoffman, a

Ohlendorf, H.M. and G.H. H

Shore, R.F., M.G. Pereira, L.

Table S7-11. Total analyte

Location	Manganese (mg/kg)	Manganese Detected	Mercury (mg/kg)	Mercury Detected	Nickel (mg/kg)
TA-16 Burn Grounds	1.80	Y	0.072	Y	1.30
TA-16 Burn Grounds	1.50	Y	0.057	Y	1.20
TA-16 Burn Grounds	1.70	Y	0.060	Y	1.10
TA-16 Burn Grounds	2.00	Y	0.180	Y	0.46
TA-36 Minie	2.80	Y	0.021	Y	1.30
TA-16 Burn Grounds	9.20	Y	0.046	Y	0.23
Background Location	3.30	Y	0.007	Y	0.14
RSRL	3.88	NA	0.192	NA	2.00
LOAEL	NA	NA	1.90	NA	NA

References

Heinz, G.H., D.J. Hoffman, a

Ohlendorf, H.M. and G.H. H

Shore, R.F., M.G. Pereira, L.

Table S7-11. Total analyte

Location	Nickel Detected	Potassium (mg/kg)	Potassium Detected	Selenium (mg/kg)	Selenium Detected
TA-16 Burn Grounds	N	9700	Y	2.6	Y
TA-16 Burn Grounds	N	9100	Y	2.6	Y
TA-16 Burn Grounds	N	7900	Y	**3.2**	Y
TA-16 Burn Grounds	N	7800	Y	2.6	Y
TA-36 Minie	N	10000	Y	2.0	Y
TA-16 Burn Grounds	N	2800	Y	0.4	Y
Background Location	Y	2100	Y	0.2	Y
RSRL	NA	11225	NA	4.0	NA
LOAEL	NA	NA	NA	2.6	NA

References

Heinz, G.H., D.J. Hoffman, a

Ohlendorf, H.M. and G.H. H

Shore, R.F., M.G. Pereira, L.

Table S7-11. Total analyte

Location	Silver (mg/kg)	Silver Detected	Sodium (mg/kg)	Sodium Detected	Thallium (mg/kg)	Thallium Detected
TA-16 Burn Grounds	0.025	N	9400	Y	0.0076	N
TA-16 Burn Grounds	0.024	N	10000	Y	0.0072	N
TA-16 Burn Grounds	0.021	N	8300	Y	0.0063	N
TA-16 Burn Grounds	0.009	N	8300	Y	0.0076	Y
TA-36 Minie	0.025	N	9700	Y	0.0076	N
TA-16 Burn Grounds	0.017	Y	3400	Y	0.0014	N
Background Location	0.003	Y	1600	Y	0.0014	Y
RSRL	0.039	NA	11221	NA	0.0263	NA
LOAEL	NA	NA	NA	NA	NA	NA

References

Heinz, G.H., D.J. Hoffman, a

Ohlendorf, H.M. and G.H. H

Shore, R.F., M.G. Pereira, L.

Table S7-11. Total analyte

Location	Vanadium (mg/kg)	Vanadium Detected	Zinc (mg/kg)	Zinc Detected
TA-16 Burn Grounds	0.310	N	44.0	Y
TA-16 Burn Grounds	0.290	N	39.0	Y
TA-16 Burn Grounds	0.250	N	42.0	Y
TA-16 Burn Grounds	0.110	N	51.0	Y
TA-36 Minie	0.300	N	55.0	Y
TA-16 Burn Grounds	0.056	N	41.0	Y
Background Location	0.065	Y	26.0	Y
RSRL	0.474	NA	61.9	NA
LOAEL	NA	NA	NA	NA

References

Heinz, G.H., D.J. Hoffman, a

Ohlendorf, H.M. and G.H. H

Shore, R.F., M.G. Pereira, L.

Table S7-12. Radionuclide concentrations in native understory vegetation collected on the upgradient side of the Los Alamos Canyon Weir in 2

Radionuclide	Units	Result	Uncertainty	Detected
Americium-241	pCi/g ash	0.0088	0.0024	Y
Cesium-137	pCi/g ash	0.3300	0.1400	N
Plutonium-238	pCi/g ash	0.0005	0.0016	N
Plutonium-239/240	pCi/g ash	0.0026	0.0014	N
Strontium-90	pCi/g ash	2.350	0.2800	Y
Tritium	pCi/mL	0.1150	0.0330	Y
Uranium-234	pCi/g ash	0.1660	0.0160	Y
Uranium-235/236	pCi/g ash	0.0079	0.0023	Y
Uranium-238	pCi/g ash	0.1570	0.0150	Y

References

DOE (Department of Energy). 2019. "A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota," U.S. Department of Energ

Table S7-12. Radionucli020.

Radionuclide	RSRL	BDSL
Americium-241	0.0142	547
Cesium-137	0.6857	72500
Plutonium-238	0.0156	578
Plutonium-239/240	0.0118	578
Strontium-90	3.181	53750
Tritium	2.940	345000
Uranium-234	0.6393	625
Uranium-235/236	0.0320	625
Uranium-238	0.6544	694

References

DOE (Department of Eney report DOE-STD-1153-2019.

Table S7-13. Total analyte list concentrations (mg/kg) in native understory vegetation collected on the upgradient side of the Los Alamos Canyon Weir in 2020.

Element (mg/kg)	Result (mg/kg)	Detected	*RSRL* Screening Level
Aluminum	150	Y	634
Antimony	0.030	Y	0.1988
Arsenic	0.067	Y	0.3582
Barium	16.0	Y	141
Beryllium	**0.130**	Y	0.1091
Cadmium	0.440	Y	0.4549
Calcium	6200	Y	22556
Chromium	0.220	Y	0.8120
Cobalt	0.180	Y	0.8051
Copper	5.90	Y	11.2
Iron	360	Y	767
Lead	0.940	Y	1.27
Magnesium	1800	Y	5962
Manganese	220	Y	234
Mercury	0.006	N	0.0174
Nickel	0.930	Y	4.22
Potassium	6400	Y	66655
Selenium	0.190	N	2.58
Silver	0.011	Y	0.0265
Sodium	350	Y	7213
Thallium	0.021	Y	0.0914
Vanadium	0.290	Y	1.54
Zinc	**79.0**	Y	46.3

Table S7-14. Radionuclide concentrations in a wood rat collected on the upgradient side of the Los Alamos Canyon Weir in 2020.

Radionuclide	Units	Result	Uncertainty	Detected	RSRL	BDSL
Americium-241	pCi/g ash	**0.0298**	0.0052	Y	0.0116	40
Cesium-137	pCi/g ash	-0.2100	0.3800	N	0.1456	5333
Plutonium-238	pCi/g ash	0.0033	0.0017	Y	0.0060	42
Plutonium-239/240	pCi/g ash	**0.0193**	0.0040	Y	0.0128	42
Strontium-90	pCi/g ash	**5.150**	0.6100	Y	0.4324	3954
Tritium	pCi/mL	0.0570	0.0280	N	0.5310	34500
Uranium-234	pCi/g ash	**0.1450**	0.0150	Y	0.0901	46
Uranium-235/236	pCi/g ash	**0.0093**	0.0029	Y	0.0067	46
Uranium-238	pCi/g ash	**0.1260**	0.0130	Y	0.0763	46

References

DOE (Department of Energy). 2019. "A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota," U.S. Department of Energy report DOE-STD-1153-2019.

Table S7-15. Total analyte list concentrations (mg/kg) in whole body mouse samples collected upgradient of the Los Alamos Canyon V

Field Sample ID	Species	Sex	Aluminum (mg/kg)	Aluminum Detected	Antimony (mg/kg)
SFB-20-205359	Deer Mouse	Male	12	Y	0.022
SFB-20-205360	Pinyon Mouse	Female	21	Y	0.018
SFB-20-205361	Pinyon Mouse	Male	29	Y	0.025
RSRL	NA	NA	110	NA	0.3192

Table S7-15. Total analyses in Veir in 2020.

Field Sample ID	Antimony Detected	Arsenic (mg/kg)	Arsenic Detected	Barium (mg/kg)	Barium Detected
SFB-20-205359	Y	0.0095	Y	5.2	Y
SFB-20-205360	Y	0.0079	Y	3.8	Y
SFB-20-205361	Y	0.021	Y	2	Y
RSRL	NA	0.0837	NA	13.62	NA

Table S7-15. Total ana

Field Sample ID	Beryllium (mg/kg)	Beryllium Detected	Cadmium (mg/kg)	Cadmium Detected	Calcium (mg/kg)
SFB-20-205359	0.0051	N	0.01	Y	11000
SFB-20-205360	0.0027	N	0.022	Y	13000
SFB-20-205361	0.0029	N	0.013	Y	12000
RSRL	0.0372	NA	0.0424	NA	16734

Table S7-15. Total ana

Field Sample ID	Calcium Detected	Chromium (mg/kg)	Chromium Detected	Cobalt (mg/kg)	Cobalt Detected
SFB-20-205359	Y	0.54	Y	0.03	Y
SFB-20-205360	Y	0.29	Y	0.019	Y
SFB-20-205361	Y	0.34	Y	0.032	Y
RSRL	NA	0.5644	NA	0.0760	NA

Table S7-15. Total ana

Field Sample ID	Copper (mg/kg)	Copper Detected	Iron (mg/kg)	Iron Detected	Lead (mg/kg)	Lead Detected
SFB-20-205359	2.9	Y	71	Y	0.15	Y
SFB-20-205360	2.3	Y	68	Y	0.85	Y
SFB-20-205361	2.4	Y	72	Y	0.53	Y
RSRL	3.53	NA	206	NA	5.6080	NA

Table S7-15. Total ana

Field Sample ID	Magnesium (mg/kg	Magnesium Detected	Manganese (mg/kg)	Manganese Detected	Mercury (mg/kg)
SFB-20-205359	420	Y	2.2	Y	0.0028
SFB-20-205360	270	Y	1.4	Y	0.0035
SFB-20-205361	300	Y	1.7	Y	0.0031
RSRL	477	NA	7.12	NA	0.0149

Table S7-15. Total ana

Field Sample ID	Mercury Detected	Nickel (mg/kg)	Nickel Detected	Potassium (mg/kg)	Potassium Detected
SFB-20-205359	N	0.14	Y	3400	Y
SFB-20-205360	N	0.054	Y	3000	Y
SFB-20-205361	N	0.051	Y	3000	Y
RSRL	NA	0.4998	NA	3936	NA

Table S7-15. Total ana

Field Sample ID	Selenium (mg/kg)	Selenium Detected	Silver (mg/kg)	Silver Detected	Sodium (mg/kg)	Sodium Detected
SFB-20-205359	0.27	Y	0.012	Y	1200	Y
SFB-20-205360	0.21	Y	0.0048	Y	1600	Y
SFB-20-205361	0.25	Y	0.0064	Y	1600	Y
RSRL	0.4570	NA	0.0140	NA	2064	NA

Table S7-15. Total ana

Field Sample ID	Thallium (mg/kg)	Thallium Detected	Vanadium (mg/kg)	Vanadium Detected	Zinc (mg/kg)
SFB-20-205359	0.0016	Y	0.016	Y	64
SFB-20-205360	0.0022	Y	0.021	Y	49
SFB-20-205361	0.0016	Y	0.033	Y	140
RSRL	0.0047	NA	0.2754	NA	178

Table S7-15. Total ana

Field Sample ID	Zinc Detected
SFB-20-205359	Y
SFB-20-205360	Y
SFB-20-205361	Y
RSRL	NA

Table S7-16. Total polychlorinated biphenyls (PCB; (mg/kg) in whole body deer mice samples collected upgradient of the Los Alamos Canyon Weir in 2020.

Sample ID	Species	Sex	Total PCB (mg/kg)
SFB-20-205362	Deer Mouse	Female	**0.0308**
SFB-20-205363	Pinyon Mouse	Male	**0.0488**
SFB-20-205364	Deer Mouse	Female	**0.0237**
RSRL	NA	NA	0.0129
LOAEL	NA	NA	2.5

References

Batty, J., R.A. Leavitt, N. Biondao, and D. Polin. 1990. "An Ecotoxicological Study of a Population of the White-Footed Mouse (Peromyscus leucopus) Inhabiting a Polychlorinated Biphenyls-Contaminated Area," Archives of Environmental Contamination and Toxicology, 19:283–290.

Table S7-17. PFAS concentrations (ng/g) in whole body mouse samples collected upgradient of the Los Alamos Canyon Weir in 2020.

Sample ID	Species	Sex	NEtFOSAA (ng/g)	NEtFOSAA Detected	NMeFOSAA (ng/g)	NMeFOSAA Detected
SFB-20-205365	Pinyon Mouse	Female	2.74	N	3.28	N
SFB-20-205366	Pinyon Mouse	Female	0.472	N	0.567	N
SFB-20-205367	Deer Mouse	Male	0.440	N	0.528	N

Table S7-17. PF

Sample ID	PFBS (ng/g)	PFBS Detected	PFDA (ng/g)	PFDA Detected	PFDoDA (ng/g)	PFDoDA Detected
SFB-20-205365	0.328	N	0.736	N	0.328	N
SFB-20-205366	0.283	N	0.635	N	0.285	Y
SFB-20-205367	0.264	N	0.592	N	0.264	N

Table S7-17. PF

Sample ID	PFHpA (ng/g)	PFHpA Detected	PFHxS (ng/g)	PFHxS Detected	PFHxA (ng/g)	PFHxA Detected
SFB-20-205365	0.328	N	0.328	N	0.398	N
SFB-20-205366	0.283	N	0.283	N	0.343	N
SFB-20-205367	0.264	N	0.264	N	0.320	N

Table S7-17. PF

Sample ID	PFNA (ng/g)	PFNA Detected	PFOS (ng/g)	PFOS Detected	PFOA (ng/g)	PFOA Detected	PFTeDA (ng/g)
SFB-20-205365	0.328	N	2.90	Y	0.398	N	1.99
SFB-20-205366	0.283	N	4.49	Y	0.343	N	1.72
SFB-20-205367	0.264	N	3.41	Y	0.320	N	1.60

Table S7-17. PF

Sample ID	PFTeDA Detected	PFTrDA (ng/g)	PFTrDA Detected	PFUnDA (ng/g)	PFUnDA Detected
SFB-20-205365	N	0.328	N	0.407	Y
SFB-20-205366	N	0.283	N	0.412	Y
SFB-20-205367	N	0.264	N	0.264	N

Table S7-18. Radionuclide concentrations in native understory vegetation collected on the upgradient side of the Pajarito Flood Retention Structure in 2020.

Radionuclide	Units	Result	Uncertainty	Detected	RSRL	BDSL
Americium-241	pCi/g ash	0.0008	0.0016	N	0.0142	547
Cesium-137	pCi/g ash	-0.0200	0.1300	N	0.6857	72500
Plutonium-238	pCi/g ash	0.0031	0.0012	Y	0.0156	578
Plutonium-239/24(	pCi/g ash	0.0018	0.0015	N	0.0118	578
Strontium-90	pCi/g ash	0.5140	0.0640	Y	3.181	53750
Tritium	pCi/mL	-0.0240	0.0210	N	2.940	345000
Uranium-234	pCi/g ash	0.0385	0.0052	Y	0.6393	625
Uranium-235/236	pCi/g ash	0.0036	0.0019	N	0.0320	625
Uranium-238	pCi/g ash	0.0301	0.0044	Y	0.6544	694

References

DOE (Department of Energy). 2019. “A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota,” U.S. Department of Energy report DOE-STD-1153-2019.

Table S7-19. Total analyte list concentrations (mg/kg) in native understory vegetation collected on the upgradient side of the Pajarito Flood Retention Structure in 2020.

Element	Result (mg/kg)	Detected	RSRL
Aluminum	19	Y	634
Antimony	0.033	Y	0.1988
Arsenic	0.047	N	0.3582
Barium	8.7	Y	141
Beryllium	0.053	N	0.1091
Cadmium	0.021	N	0.4549
Calcium	2500	Y	22556
Chromium	0.17	N	0.8120
Cobalt	0.097	N	0.8051
Copper	2.2	Y	11.15
Iron	41	Y	767
Lead	0.064	N	1.270
Magnesium	710	Y	5962
Manganese	29	Y	234
Mercury	0.0024	N	0.0174
Nickel	0.41	N	4.217
Potassium	4300	Y	66655
Selenium	0.19	N	2.584
Silver	0.013	Y	0.0265
Sodium	35	N	7213
Thallium	0.0024	N	0.0914
Vanadium	0.097	N	1.543
Zinc	13	Y	46.27

Table S7-20. Radionuclide concentrations in a composite whole body mouse sample (n=5) collected upgradient of the Pajarito Flood Retention Structure in 2020.

Radionuclide	Units	Result	Uncertainty	Detected	RSRL	BDSL
Americium-241	pCi/g ash	-0.0008	0.0015	N	0.0116	40
Cesium-137	pCi/g ash	-0.2300	0.2700	N	0.1456	5333
Plutonium-238	pCi/g ash	0.0011	0.0015	N	0.0060	42
Plutonium-239/240	pCi/g ash	0.0011	0.0013	N	0.0128	42
Strontium-90	pCi/g ash	0.2340	0.0380	Y	0.4324	3954
Tritium	pCi/mL	0.1650	0.0370	Y	0.5310	34500
Uranium-234	pCi/g ash	0.0527	0.0068	Y	0.0901	46
Uranium-235/236	pCi/g ash	0.0040	0.0016	Y	0.0067	46
Uranium-238	pCi/g ash	0.0410	0.0056	Y	0.0763	46

References

DOE (Department of Energy). 2019. “A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota,” U.S. Department of Energy report DOE-STD-1153-2019.

Table S7-21. Total analyte list concentrations (mg/kg) in whole body mouse samples collected upgradient of the Pajarito Canyon Flood Retentio

Sample ID	Species	Sex	Aluminum mg/kg	Aluminum detected	Antimony mg/kg	Antimony detected	Arsenic mg/kg
SFB-20-205369	Deer Mouse	Male	15	Y	0.0410	Y	0.0530
SFB-20-205370	Deer Mouse	Female	56.0	Y	0.0820	Y	0.0380
SFB-20-205371	Deer Mouse	Male	39.0	Y	0.0450	Y	0.0130
RSRL	NA	NA	110	NA	0.3192	NA	0.0837

Table S7-21. Ton Structure in 2020.

Sample ID	Arsenic detected	Barium mg/kg	Barium detected	Beryllium mg/kg	Beryllium detected	Cadmium mg/kg
SFB-20-205369	Y	3.40	Y	0.0051	N	0.0068
SFB-20-205370	Y	4.70	Y	0.0034	N	0.0060
SFB-20-205371	Y	3.80	Y	0.0032	N	0.0036
RSRL	NA	13.62	NA	0.0372	NA	0.0424

Table S7-21. To

Sample ID	Cadmium detected	Calcium mg/kg	Calcium detected	Chromium mg/kg	Chromium detected	Cobalt mg/kg
SFB-20-205369	Y	11000	Y	0.4800	Y	0.0240
SFB-20-205370	Y	9200	Y	**0.9000**	Y	0.0350
SFB-20-205371	Y	9100	Y	**0.6300**	Y	0.0320
RSRL	NA	16734	NA	0.5644	NA	0.0760

Table S7-21. To

Sample ID	Cobalt detected	Copper mg/kg	Copper detected	Iron mg/kg	Iron detected	Lead mg/kg	Lead detected
SFB-20-205369	Y	3.00	Y	72.0	Y	0.3100	Y
SFB-20-205370	Y	2.50	Y	110	Y	0.5700	Y
SFB-20-205371	Y	2.30	Y	72.0	Y	1.1000	Y
RSRL	NA	3.53	NA	206	NA	5.6080	NA

Table S7-21. To

Sample ID	Magnesium mg/kg	Magnesium detected	Manganese mg/kg	Manganese detected	Mercury mg/kg
SFB-20-205369	340	Y	1.40	Y	0.0045
SFB-20-205370	340	Y	3.00	Y	0.0021
SFB-20-205371	280	Y	2.50	Y	0.0023
RSRL	477	NA	7.12	NA	0.0149

Table S7-21. To

Sample ID	Mercury detected	Nickel mg/kg	Nickel detected	Potassium mg/kg	Potassium detected	Selenium mg/kg
SFB-20-205369	Y	0.1500	Y	3400	Y	0.1900
SFB-20-205370	N	0.1100	Y	2900	Y	0.1300
SFB-20-205371	N	0.1300	Y	3000	Y	0.2000
RSRL	NA	0.4998	NA	3936	NA	0.4570

Table S7-21. To

Sample ID	Selenium detected	Silver mg/kg	Silver detected	Sodium mg/kg	Sodium detected	Thallium mg/kg
SFB-20-205369	Y	**0.0600**	Y	1100	Y	**0.0088**
SFB-20-205370	Y	**0.0190**	Y	1600	Y	0.0038
SFB-20-205371	Y	7.0000	Y	1500	Y	0.0043
RSRL	NA	0.0140	NA	2064	NA	0.0047

Table S7-21. To

Sample ID	Thallium detected	Vanadium mg/kg	Vanadium detected	Zinc mg/kg	Zinc detected
SFB-20-205369	Y	0.0170	Y	64	Y
SFB-20-205370	Y	0.0800	Y	**180**	Y
SFB-20-205371	Y	0.0390	Y	160	Y
RSRL	NA	0.2754	NA	178	NA

Table S7-22. Total polychlorinated biphenyl (PCB; mg/kg) in whole body mice collected upgradient of the Pajarito Flood Retention Structure in 2020.

Sample ID	Species	Sex	Total PCB (mg/kg)
SFB-20-205372	Brush mouse	Male	0.0004
SFB-20-205373	Deer mouse	Male	0.0031
SFB-20-205374	Deer mouse	Male	0.0012
RSRL	NA	NA	0.0129
LOAEL	NA	NA	2.5

References

Batty, J., R.A. Leavitt, N. Biondao, and D. Polin. 1990. "An Ecotoxicological Study of a Population of the White-Footed Mouse (Peromyscus leucopus) Inhabiting a Polychlorinated Biphenyls-Contaminated Area," Archives of Environmental Contamination and Toxicology, 19:283–290.

Table S7-23. PFAS concentrations (ng/g) in whole body mouse samples collected upgradient of the Pajarito Canyon Flood Retention Structure i

Sample ID	Species	Sex	NEtFOSAA (ng/g)	NEtFOSAA Detected	NMeFOSAA (ng/g)	NMeFOSAA Detected
SFB-20-205375	Deer Mouse	Female	0.472	N	0.567	N
SFB-20-205376	Deer Mouse	Female	0.48	N	14.4	N
SFB-20-205377	Deer Mouse	Female	0.478	N	0.574	N

Table S7-23. PFAs in 2020.

Sample ID	PFBS (ng/g)	PFBS Detected	PFDA (ng/g)	PFDA Detected	PFDoDA (ng/g)	PFDoDA Detected
SFB-20-205375	7.08	N	0.635	N	0.399	Y
SFB-20-205376	0.288	N	0.646	N	0.288	N
SFB-20-205377	0.287	N	0.643	N	0.287	N

Table S7-23. PFAS

Sample ID	PFHpA (ng/g)	PFHpA Detected	PFHxS (ng/g)	PFHxS Detected	PFHxA (ng/g)	PFHxA Detected
SFB-20-205375	0.283	N	0.283	N	8.58	N
SFB-20-205376	0.288	N	0.288	N	0.349	N
SFB-20-205377	0.287	N	0.287	N	0.348	N

Table S7-23. PFAS

Sample ID	PFNA (ng/g)	PFNA Detected	PFOS (ng/g)	PFOS Detected	PFOA (ng/g)	PFOA Detected	PFTeDA (ng/g)
SFB-20-205375	0.313	Y	2.07	Y	0.343	N	8.58
SFB-20-205376	0.288	N	3.05	Y	0.349	N	8.73
SFB-20-205377	0.287	N	0.485	Y	0.348	N	8.70

Table S7-23. PFAS

Sample ID	PFTeDA Detected	PFTrDA (ng/g)	PFTrDA Detected	PFUnDA (ng/g)	PFUnDA Detected
SFB-20-205375	N	0.283	N	0.483	Y
SFB-20-205376	N	0.288	N	0.288	N
SFB-20-205377	N	0.287	N	0.287	N

Table S7-24. Radionuclide concentrations in muscle and bone of deer from perimeter locations.

Sample ID	Species	Tissue Type	Location	Date	Americium-241 pCi/g	Americium-241 Report Uncertainty
SFB-20-206108	Deer	Muscle	Hwy 502	5/12/2020	-0.0005	0.0014
SFB-20-206399	Deer	Muscle	Barranca Mesa	8/3/2020	-0.0001	0.0019
SFB-21-217163	Deer	Muscle	North Mesa	11/16/2020	-0.0011	0.0014
SFB-21-217164	Deer	Muscle	North Mesa	11/16/2020	-0.0015	0.0014
RSRL	Deer	Muscle	NA	NA	0.0113	NA
BDSL	Deer	Muscle	NA	NA	156	NA
SFB-20-206109	Deer	Bone	Hwy 502	5/12/2020	-0.0017	0.0016
SFB-20-206401	Deer	Bone	Barranca Mesa	8/3/2020	-0.0003	0.0015
SFB-21-217165	Deer	Bone	North Mesa	11/16/2020	-0.0006	0.0015
SFB-21-217166	Deer	Bone	North Mesa	11/16/2020	-0.0015	0.0014
RSRL	Deer	Bone	NA	NA	0.0046	NA
BDSL	Deer	Bone	NA	NA	5.68	NA

References

DOE (Department of Energy). 2019. “A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota,” U.S. Department of

Table S7-24. Ra

Sample ID	Americium-241 Detected	Cesium-137 pCi/g	Cesium-137 Report Uncertainty	Cesium-137 Detected
SFB-20-206108	N	0.4800	0.1500	Y
SFB-20-206399	N	0.3100	0.1100	N
SFB-21-217163	N	-0.0400	0.1800	N
SFB-21-217164	N	-0.2000	0.2700	N
RSRL	NA	1.1065	NA	NA
BDSL	NA	20622	NA	NA
SFB-20-206109	N	0.0500	0.1400	N
SFB-20-206401	N	0.0000	0.2200	N
SFB-21-217165	N	-0.1100	0.1600	N
SFB-21-217166	N	0.0800	0.1400	N
RSRL	NA	0.2998	NA	NA
BDSL	NA	753	NA	NA

References

DOE (Departmer Energy report DOE-STD-1153-2019.

Table S7-24. Ra

Sample ID	Plutonium-238 pCi/g	Plutonium-238 Report Uncertainty	Plutonium-238 Detected	Plutonium-239/240 pCi/g
SFB-20-206108	0.0021	0.0017	Y	0.0035
SFB-20-206399	0.0016	0.0013	N	0.0016
SFB-21-217163	0.0028	0.0012	Y	0.0019
SFB-21-217164	0.0000	0.0015	N	0.0013
RSRL	0.0070	NA	NA	0.0056
BDSL	164	NA	NA	164
SFB-20-206109	0.0045	0.0016	Y	0.0033
SFB-20-206401	0.0005	0.0011	N	0.0019
SFB-21-217165	-0.0007	0.0016	N	0.0026
SFB-21-217166	0.0036	0.0018	Y	0.0021
RSRL	0.0055	NA	NA	0.0045
BDSL	6.01	NA	NA	6.01

References

DOE (Departmer

Table S7-24. Ra

Sample ID	Plutonium-239/240 Report Uncertainty	Plutonium-239/240 Detected	Strontium-90 pCi/g
SFB-20-206108	0.0018	Y	-0.0010
SFB-20-206399	0.0013	N	-0.0490
SFB-21-217163	0.0012	N	0.0560
SFB-21-217164	0.0015	N	0.0200
RSRL	NA	NA	1.7841
BDSL	NA	NA	15289
SFB-20-206109	0.0014	Y	0.3080
SFB-20-206401	0.0013	N	0.1390
SFB-21-217165	0.0019	N	0.0740
SFB-21-217166	0.0018	N	0.0620
RSRL	NA	NA	4.8787
BDSL	NA	NA	558

References

DOE (Departmer

Table S7-24. Ra

Sample ID	Strontium-90 Report Uncertainty	Strontium-90 Detected	Tritium pCi/mL	Tritium Report Uncertainty
SFB-20-206108	0.0210	N	0.1000	0.0260
SFB-20-206399	0.0200	N	0.2060	0.0410
SFB-21-217163	0.0210	N	-0.0920	0.0310
SFB-21-217164	0.0190	N	0.1070	0.0530
RSRL	NA	NA	0.7193	NA
BDSL	NA	NA	34500	NA
SFB-20-206109	0.0430	Y	0.0480	0.0210
SFB-20-206401	0.0260	Y	0.0230	0.0150
SFB-21-217165	0.0210	Y	-0.0470	0.0350
SFB-21-217166	0.0210	N	0.1750	0.0600
RSRL	NA	NA	2.6934	NA
BDSL	NA	NA	34500	NA

References

DOE (Departmer

Table S7-24. Ra

Sample ID	Tritium Detected	Uranium-234 pCi/g	Uranium-234 Report Uncertainty	Uranium-234 Detected
SFB-20-206108	Y	0.0084	0.0037	N
SFB-20-206399	Y	0.0029	0.0029	N
SFB-21-217163	N	0.0109	0.0032	Y
SFB-21-217164	N	0.0154	0.0041	Y
RSRL	NA	0.1164	NA	NA
BDSL	NA	178	NA	NA
SFB-20-206109	N	0.0028	0.0019	N
SFB-20-206401	N	0.0035	0.0017	N
SFB-21-217165	N	0.0067	0.0028	Y
SFB-21-217166	Y	0.0036	0.0032	N
RSRL	NA	0.0142	NA	NA
BDSL	NA	6.49	NA	NA

References

DOE (Departmer

Table S7-24. Ra

Sample ID	Uranium-235/236 pCi/g	Uranium 235/236 Report Uncertainty	Uranium235/236 Detected	Uranium-238 pCi/g
SFB-20-206108	0.0033	0.0027	N	0.0000
SFB-20-206399	0.0000	0.0028	N	-0.0020
SFB-21-217163	0.0038	0.0020	N	0.0013
SFB-21-217164	0.0029	0.0029	N	0.0032
RSRL	0.0116	NA	NA	0.0521
BDSL	178	NA	NA	197
SFB-20-206109	-0.0011	0.0014	N	0.0005
SFB-20-206401	0.0000	0.0017	N	0.0006
SFB-21-217165	-0.0026	0.0032	N	0.0090
SFB-21-217166	0.0000	0.0035	N	-0.0012
RSRL	0.0025	NA	NA	0.0076
BDSL	6.49	NA	NA	7.21

References

DOE (Departmer

Table S7-24. Ra

Sample ID	Uranium-238 Report Uncertainty	Uranium-238 Detected
SFB-20-206108	0.0023	N
SFB-20-206399	0.0024	N
SFB-21-217163	0.0022	N
SFB-21-217164	0.0026	N
RSRL	NA	NA
BDSL	NA	NA
SFB-20-206109	0.0012	N
SFB-20-206401	0.0014	N
SFB-21-217165	0.0040	N
SFB-21-217166	0.0030	N
RSRL	NA	NA
BDSL	NA	NA

References

DOE (Departmer

Table S7-25. Radionuclide activities in a whole body bird and snake and muscle and bone in a badger and bobcat collected from LAN

Sample ID	Species	Tissue Type	Location	Date	Americium-241 pCi/g
SFB-20-206105	Gopher Snake	Whole Body	LANL - Pajarito Road	5/6/2020	-0.0023
RSRL	Gopher Snake	Whole Body	NA	NA	0.0389
BDSL	Gopher Snake	Whole Body	NA	NA	34.1
SFB-20-206062	Great Horned Owl	Whole Body	LANL - TA-16 Burn Grounds	6/24/2020	-0.0007
RSRL	Bird	Whole Body	NA	NA	0.0020
BDSL	Bird	Whole Body	NA	NA	36.8
SFB-20-206110	Bobcat	Muscle	Perimeter - Pajarito Acres	3/19/2020	0.0050
SFB-20-206106	American Badger	Muscle	LANL - Near LANSCE	12/13/2019	-0.0004
BDSL	Racoon	Muscle	NA	NA	87.5
SFB-20-206111	Bobcat	Bone	Perimeter - Pajarito Acres	3/19/2020	-0.0011
SFB-20-206107	American Badger	Bone	LANL - Near LANSCE	12/13/2019	0.0020
BDSL	Racoon	Bone	NA	NA	3.89

References

DOE (Department of Energy). 2019. “A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota,” U.S. Departmer

Table S7-25. RadiL and perimeter locations.

Sample ID	Americium-241 Report Uncertainty	Americium-241 Detected	Cesium-137 pCi/g
SFB-20-206105	0.0013	N	-0.1200
RSRL	NA	NA	0.0802
BDSL	NA	NA	4522
SFB-20-206062	0.0021	N	-0.1000
RSRL	NA	NA	1.13
BDSL	NA	NA	4874
SFB-20-206110	0.0035	N	0.0500
SFB-20-206106	0.0016	N	0.1840
BDSL	NA	NA	11600
SFB-20-206111	0.0013	N	-0.2300
SFB-20-206107	0.0022	N	0.0400
BDSL	NA	NA	516

References

DOE (Department of Energy report DOE-STD-1153-2019.

Table S7-25. Radi

Sample ID	Cesium-137 Report Uncertainty	Cesium-137 Detected	Plutonium-238 pCi/g
SFB-20-206105	0.2700	N	0.0018
RSRL	NA	NA	0.0109
BDSL	NA	NA	36.1
SFB-20-206062	0.1300	N	0.0010
RSRL	NA	NA	0.0074
BDSL	NA	NA	38.9
SFB-20-206110	0.1200	N	0.0000
SFB-20-206106	0.0770	N	0.0025
BDSL	NA	NA	92.5
SFB-20-206111	0.1600	N	0.0000
SFB-20-206107	0.1400	N	-0.0010
BDSL	NA	NA	4.11

References

DOE (Department

Table S7-25. Radi

Sample ID	Plutonium-238 Report Uncertainty	Plutonium-238 Detected	Plutonium-239/240 pCi/g
SFB-20-206105	0.0011	N	0.0022
RSRL	NA	NA	0.0283
BDSL	NA	NA	36.1
SFB-20-206062	0.0012	N	0.0015
RSRL	NA	NA	0.0122
BDSL	NA	NA	38.9
SFB-20-206110	0.0013	N	0.0015
SFB-20-206106	0.0013	N	0.0055
BDSL	NA	NA	92.5
SFB-20-206111	0.0013	N	0.0011
SFB-20-206107	0.0012	N	0.0030
BDSL	NA	NA	4.11

References

DOE (Department

Table S7-25. Radi

Sample ID	Plutonium-239/240 Report Uncertainty	Plutonium-239/240 Detected	Strontium-90 pCi/g
SFB-20-206105	0.0011	Y	0.2550
RSRL	NA	NA	0.4046
BDSL	NA	NA	3353
SFB-20-206062	0.0012	Y	0.1250
RSRL	NA	NA	0.5037
BDSL	NA	NA	3613
SFB-20-206110	0.0014	N	0.0100
SFB-20-206106	0.0020	Y	-0.0420
BDSL	NA	NA	8600
SFB-20-206111	0.0015	N	0.0550
SFB-20-206107	0.0014	N	0.2170
BDSL	NA	NA	382

References

DOE (Department

Table S7-25. Radi

Sample ID	Strontium-90 Report Uncertainty	Strontium-90 Detected	Tritium pCi/mL
SFB-20-206105	0.0370	Y	0.1290
RSRL	NA	NA	2.130
BDSL	NA	NA	34500
SFB-20-206062	0.0250	Y	0.1960
RSRL	NA	NA	0.4481
BDSL	NA	NA	34500
SFB-20-206110	0.0210	N	0.0630
SFB-20-206106	0.0290	N	0.3270
BDSL	NA	NA	34500
SFB-20-206111	0.0240	N	0.0750
SFB-20-206107	0.0350	Y	0.2650
BDSL	NA	NA	34500

References

DOE (Department

Table S7-25. Radi

Sample ID	Tritium Report Uncertainty	Tritium Detected	Uranium-234 pCi/g	Uranium-234 Report Uncertainty
SFB-20-206105	0.0260	Y	0.0073	0.0020
RSRL	NA	NA	0.0212	NA
BDSL	NA	NA	39.0	NA
SFB-20-206062	0.0330	Y	0.0101	0.0029
RSRL	NA	NA	0.0927	NA
BDSL	NA	NA	42.0	NA
SFB-20-206110	0.0230	N	0.0082	0.0027
SFB-20-206106	0.0440	Y	0.0434	0.0063
BDSL	NA	NA	100	NA
SFB-20-206111	0.0240	Y	0.0062	0.0023
SFB-20-206107	0.0580	Y	0.0092	0.0029
BDSL	NA	NA	4.44	NA

References

DOE (Department

Table S7-25. Radi

Sample ID	Uranium-234 Detected	Uranium-235/236 pCi/g	Uranium 235/236 Report Uncertainty
SFB-20-206105	Y	0.0025	0.0014
RSRL	NA	0.0099	NA
BDSL	NA	39.0	NA
SFB-20-206062	Y	0.0000	0.0015
RSRL	NA	0.0045	NA
BDSL	NA	42.0	NA
SFB-20-206110	Y	0.0000	0.0017
SFB-20-206106	Y	0.0049	0.0021
BDSL	NA	100	NA
SFB-20-206111	Y	0.0033	0.0017
SFB-20-206107	Y	0.0016	0.0019
BDSL	NA	4.44	NA

References

DOE (Department

Table S7-25. Radi

Sample ID	Uranium235/236 Detected	Uranium-238 pCi/g	Uranium-238 Report Uncertainty
SFB-20-206105	N	0.0069	0.0019
RSRL	NA	0.0545	NA
BDSL	NA	43.3	NA
SFB-20-206062	N	0.0091	0.0026
RSRL	NA	0.0328	NA
BDSL	NA	46.6	NA
SFB-20-206110	N	0.0006	0.0015
SFB-20-206106	N	0.1820	0.0180
BDSL	NA	111	NA
SFB-20-206111	Y	0.0051	0.0019
SFB-20-206107	N	0.0145	0.0033
BDSL	NA	4.93	NA

References

DOE (Department

Table S7-25. Radi

Sample ID	Uranium-238 Detected
SFB-20-206105	Y
RSRL	NA
BDSL	NA
SFB-20-206062	Y
RSRL	NA
BDSL	NA
SFB-20-206110	N
SFB-20-206106	Y
BDSL	NA
SFB-20-206111	Y
SFB-20-206107	Y
BDSL	NA

References

DOE (Department

Table S7-26. Total analyte list concentrations in muscle of deer from perimeter locations.

Sample ID	Species	Location	Date	Aluminum mg/kg	Aluminum detected	Antimony mg/kg	Antimony detected
SFB-20-206108	Deer	Hwy 502	5/12/2020	**3.9**	Y	0.0530	N
SFB-20-206399	Deer	Barranca Mesa	8/3/2020	0.88	Y	0.0170	Y
SFB-21-217163	Deer	North Mesa	11/16/2020	**5.2**	Y	0.0071	Y
SFB-21-217164	Deer	North Mesa	11/16/2020	**5.4**	Y	0.0024	Y
RSRL	Deer	NA	NA	3.00	NA	0.0171	NA

Table S7-26. To

Sample ID	Arsenic mg/kg	Arsenic detected	Barium mg/kg	Barium detected	Beryllium mg/kg	Beryllium detected
SFB-20-206108	**0.0350**	Y	0.0550	Y	0.0051	N
SFB-20-206399	0.0048	N	0.0520	Y	0.0054	N
SFB-21-217163	0.0035	N	0.0370	Y	0.0039	N
SFB-21-217164	0.0033	Y	0.0800	Y	0.0029	N
RSRL	0.0063	NA	0.0952	NA	0.0022	NA

Table S7-26. To

Sample ID	Cadmium mg/kg	Cadmium detected	Calcium mg/kg	Calcium detected	Chromium mg/kg
SFB-20-206108	0.0020	N	27	Y	0.0640
SFB-20-206399	0.0021	N	63	Y	0.0470
SFB-21-217163	0.0016	N	29	Y	0.0850
SFB-21-217164	0.0012	N	38	Y	0.0720
RSRL	0.0021	NA	63.5	NA	0.3588

Table S7-26. To

Sample ID	Chromium detected	Cobalt mg/kg	Cobalt detected	Copper mg/kg	Copper detected	Iron mg/kg
SFB-20-206108	Y	**0.0140**	Y	1.5	Y	28
SFB-20-206399	Y	0.0097	N	1.2	Y	25
SFB-21-217163	Y	0.0072	N	1.6	Y	29
SFB-21-217164	Y	0.0053	N	1.6	Y	29
RSRL	NA	0.0130	NA	2.14	NA	44.3

Table S7-26. To

Sample ID	Iron detected	Lead mg/kg	Lead detected	Magnesium mg/kg	Magnesium detected	Manganese mg/kg
SFB-20-206108	Y	**0.5300**	Y	170	Y	**0.3600**
SFB-20-206399	Y	0.0064	N	210	Y	0.1900
SFB-21-217163	Y	0.0160	Y	170	Y	0.1100
SFB-21-217164	Y	**0.0860**	Y	150	Y	**0.2300**
RSRL	NA	0.0169	NA	285	NA	0.2044

Table S7-26. To

Sample ID	Manganese detected	Mercury mg/kg	Mercury detected	Nickel mg/kg	Nickel detected	Potassium mg/kg
SFB-20-206108	Y	0.00034	N	**0.1100**	Y	2900
SFB-20-206399	Y	0.00003	N	0.0410	N	3300
SFB-21-217163	Y	0.00067	Y	**0.0400**	Y	2800
SFB-21-217164	Y	0.00058	Y	**0.0410**	Y	2800
RSRL	NA	0.0028	NA	0.0312	NA	3701

Table S7-26. To

Sample ID	Potassium detected	Selenium mg/kg	Selenium detected	Silver mg/kg	Silver detected	Sodium mg/kg
SFB-20-206108	Y	0.0960	Y	0.0008	N	550
SFB-20-206399	Y	0.1200	Y	0.0008	N	680
SFB-21-217163	Y	0.1100	Y	**0.0023**	Y	460
SFB-21-217164	Y	0.1100	Y	0.0011	Y	560
RSRL	NA	1.37	NA	0.0012	NA	865

Table S7-26. To

Sample ID	Sodium detected	Thallium mg/kg	Thallium detected	Vanadium mg/kg	Vanadium detected	Zinc mg/kg
SFB-20-206108	Y	0.0003	Y	0.0093	N	40
SFB-20-206399	Y	0.0003	Y	0.0097	N	69
SFB-21-217163	Y	0.0002	N	0.0072	N	42
SFB-21-217164	Y	0.0001	N	0.0081	Y	21
RSRL	NA	0.0040	NA	0.0152	NA	88.1

Table S7-26. To

Sample ID	Zinc detected
SFB-20-206108	Y
SFB-20-206399	Y
SFB-21-217163	Y
SFB-21-217164	Y
RSRL	NA

Table S7-27. Total analyte list concentrations in a whole body sample bird and snake and muscle in a badger and bobcat coll

Sample ID	Species	Tissue Type	Location	Date	Aluminum mg/kg
SFB-20-206105	Gopher Snake	Whole Body	LANL - Pajarito Road	5/6/2020	3.5
RSRL	Snake	Whole Body	NA	NA	12.2
SFB-20-206061	Great Horned Owl	Whole Body	LANL - TA-16 Burn Grounds	6/24/2020	4.6
RSRL	Birds	Whole Body	NA	NA	171
SFB-20-206110	Bobcat	Muscle	Perimeter - Pajarito Acres	3/19/2020	1.5
SFB-20-206106	American Badger	Muscle	LANL - Near LANSCE	12/13/2019	1.8

Table S7-27. Totalected from at LANL and perimeter location.

Sample ID	Aluminum detected	Antimony mg/kg	Antimony detected	Arsenic mg/kg	Arsenic detected
SFB-20-206105	Y	0.0120	Y	0.0100	Y
RSRL	NA	0.6376	NA	0.7106	NA
SFB-20-206061	Y	0.0200	Y	0.0500	Y
RSRL	NA	0.1320	NA	0.5513	NA
SFB-20-206110	Y	0.0250	N	0.0058	Y
SFB-20-206106	Y	0.0190	N	0.0052	Y

Table S7-27. Total

Sample ID	Barium mg/kg	Barium detected	Beryllium mg/kg	Beryllium detected	Cadmium mg/kg
SFB-20-206105	9.70	Y	0.0063	Y	0.0019
RSRL	28.0	NA	0.0365	NA	0.1933
SFB-20-206061	0.1	Y	0.0054	N	0.0069
RSRL	29.5	NA	0.0287	NA	0.0209
SFB-20-206110	0.0350	N	0.0044	N	0.0018
SFB-20-206106	0.0420	N	0.0052	N	0.0024

Table S7-27. Total

Sample ID	Cadmium detected	Calcium mg/kg	Calcium detected	Chromium mg/kg	Chromium detected
SFB-20-206105	N	35000	Y	0.4800	Y
RSRL	NA	94334	NA	1.26	NA
SFB-20-206061	Y	240	Y	0.10	Y
RSRL	NA	221758	NA	5.21	NA
SFB-20-206110	N	68	Y	0.0560	Y
SFB-20-206106	Y	43	Y	0.1300	Y

Table S7-27. Total

Sample ID	Cobalt mg/kg	Cobalt detected	Copper mg/kg	Copper detected	Iron mg/kg	Iron detected
SFB-20-206105	0.0160	Y	0.65	Y	14.0	Y
RSRL	0.2423	NA	2.45	NA	68.9	NA
SFB-20-206061	0.0210	Y	3.00	Y	130	Y
RSRL	0.1363	NA	8.74	NA	136	NA
SFB-20-206110	0.0080	N	1.10	Y	21	Y
SFB-20-206106	0.0095	N	1.6	Y	40	Y

Table S7-27. Total

Sample ID	Lead mg/kg	Lead detected	Magnesium mg/kg	Magnesium detected	Manganese mg/kg
SFB-20-206105	0.0870	Y	460	Y	7.40
RSRL	3.37	NA	894	NA	20.0
SFB-20-206061	0.10	Y	160	Y	2.10
RSRL	1.02	NA	1124	NA	5.37
SFB-20-206110	0.1900	Y	170	Y	0.14
SFB-20-206106	0.0089	Y	160	Y	0.2400

Table S7-27. Total

Sample ID	Manganese detected	Mercury mg/kg	Mercury detected	Nickel mg/kg	Nickel detected
SFB-20-206105	Y	0.0006	N	0.0370	N
RSRL	NA	0.1884	NA	0.1950	NA
SFB-20-206061	Y	0.0190	Y	0.0720	Y
RSRL	NA	0.2705	NA	0.3235	NA
SFB-20-206110	Y	0.1100	Y	0.0340	N
SFB-20-206106	Y	0.0760	Y	0.0540	Y

Table S7-27. Total

Sample ID	Potassium mg/kg	Potassium detected	Selenium mg/kg	Selenium detected	Silver mg/kg
SFB-20-206105	2800	Y	0.1400	Y	0.0007
RSRL	10416	NA	0.8603	NA	1.94
SFB-20-206061	2800	Y	0.6800	Y	0.0008
RSRL	8864	NA	5.12	NA	0.0533
SFB-20-206110	3000	Y	0.1600	Y	0.0007
SFB-20-206106	2700	Y	0.1700	Y	0.0008

Table S7-27. Total

Sample ID	Silver detected	Sodium mg/kg	Sodium detected	Thallium mg/kg	Thallium detected	Vanadium mg/kg
SFB-20-206105	N	2200	Y	0.0010	Y	0.0280
RSRL	NA	8974	NA	0.3079	NA	0.1306
SFB-20-206061	N	1000	Y	0.0008	Y	0.0098
RSRL	NA	14723	NA	0.0040	NA	0.1557
SFB-20-206110	N	780	Y	0.0006	Y	0.0080
SFB-20-206106	N	700	Y	0.0006	Y	0.0095

Table S7-27. Total

Sample ID	Vanadium detected	Zinc mg/kg	Zinc detected
SFB-20-206105	Y	51	Y
RSRL	NA	219.97251	NA
SFB-20-206061	N	20	Y
RSRL	NA	168.09545	NA
SFB-20-206110	N	33	Y
SFB-20-206106	N	43	Y

Table S7-28. Polychlorinated biphenylconcentrations in muscle of deer collected from perimeter locations.

Sample ID	Species	Location	Date	Total PCB mg/kg	Total PCB detected
SFB-20-206108	Deer	Hwy 502	5/12/2020	**0.00022**	Y
SFB-20-206399	Deer	Barranca Mesa	8/3/2020	**0.00014**	Y
SFB-21-217163	Deer	North Mesa	11/16/2020	**0.00012**	Y
SFB-21-217164	Deer	North Mesa	11/16/2020	**0.06330**	Y
RSRL	NA	NA	NA	0.000017	NA
FDA	NA	NA	NA	3.0	NA

References

FDA (U.S. Food and Drug Administration). 1987. “CPG Sec. 565.200 Red Meat Adulterated with PCBs,” https://www.fda.gov/ICECI/ComplianceManuals/CompliancePolicyGuidanceManual/ucm074589.htm, accessed May 2020.

Table S7-29. Total polychlorinated biphenyl concentrations in muscle samples from a bird and a snake from LANL and a bobcat from a perimeter locations.

Sample ID	Species	Location	Date	Total PCB mg/kg	Total PCB detected
SFB-20-206104	Gopher Snake	LANL - Pajarito Road	5/6/2020	0.0001	Y
RSRL	Snake	NA	NA	0.0005	NA
SFB-20-206061	Great Horned Owl	LANL - TA-16 Burn Grounds	6/24/2020	0.0422	Y
RSRL	Bird	NA	NA	0.1001	NA
SFB-20-206110	Bobcat	Perimeter - Pajarito Acres	3/19/2020	0.0399	Y
SFB-20-206106	American Badger	LANL - Near LANSCE	12/13/2019	0.2390	Y

Table S7-30. Radionuclide concentrations in fish collected from the Rio Grande upstream and downstream of Los Alamos Canyon

Table S7-30a. Fish Results

Sample ID	Species	Location	Tritium pCi/mL	Tritium Report Uncertainty	Tritium Detected
SFB-20-205684	Channel Catfish	Upstream	-0.0040	0.0190	N
SFB-20-205685	Channel Catfish	Upstream	0.0150	0.0210	N
SFB-20-205686	Channel Catfish	Upstream	0.0630	0.0260	N
SFB-20-205687	Channel Catfish	Upstream	0.0210	0.0220	N
SFB-20-205688	Channel Catfish	Upstream	0.0150	0.0210	N
SFB-20-205689	Channel Catfish	Upstream	0.1610	0.0350	N
SFB-20-205696	White Sucker	Downstream	-0.0380	0.0140	N
SFB-20-205697	Channel Catfish	Downstream	-0.0380	0.0150	N
SFB-20-205698	Channel Catfish	Downstream	0.0280	0.0230	N
SFB-20-205699	Channel Catfish	Downstream	0.0340	0.0270	N
SFB-20-205700	Channel Catfish	Downstream	-0.0390	0.0170	N
SFB-20-205701	Channel Catfish	Downstream	0.1640	0.0300	Y
SFB-20-205702	Channel Catfish	Downstream	0.2760	0.0410	Y
SFB-20-205703	Channel Catfish	Downstream	0.0000	0.0120	N
SFB-20-205704	Channel Catfish	Downstream	0.0630	0.0180	Y
SFB-20-205705	Channel Catfish	Downstream	0.0770	0.0200	Y
SFB-20-206260	Channel Catfish	Downstream	0.0000	0.0120	N
RSRL	NA	NA	0.4171	NA	NA
Bottom Feeding BDSL	NA	NA	345000	NA	NA

Table S7-30b. Model Results

Generalized Linear M	Tritium P-value	Americium-2	Cesium-137 P-value	Plutonium-238 P-value	Plutonium-239/240 P-va
Year	NA	NA	NA	NA	NS
Location	NA	NA	NA	NA	NS
Year x Location	NA	NA	NA	NA	NS

References

DOE (Department of Energy). 2019. "A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota," U.S. Departm

Table S7-30. Radionuc during 2020.

Table S7-30a. Fish Resu

Sample ID	Americium-241 pCi/g	Americium-241 Report Uncertainty	Americium-241 Detected	Cesium-137 pCi/g
SFB-20-205684	-0.0024	0.0012	N	-0.1700
SFB-20-205685	0.0001	0.0016	N	-0.4000
SFB-20-205686	0.0039	0.0028	N	-0.0900
SFB-20-205687	0.0055	0.0027	N	0.1400
SFB-20-205688	0.0008	0.0017	N	-0.2000
SFB-20-205689	0.0000	0.0017	N	0.0000
SFB-20-205696	-0.0003	0.0016	N	-0.1100
SFB-20-205697	0.0027	0.0026	N	0.0100
SFB-20-205698	-0.0002	0.0014	N	-0.6200
SFB-20-205699	-0.0004	0.0016	N	-0.2200
SFB-20-205700	-0.0017	0.0021	N	-0.4600
SFB-20-205701	-0.0006	0.0015	N	-0.2100
SFB-20-205702	0.0004	0.0020	N	0.2000
SFB-20-205703	0.0004	0.0021	N	0.2700
SFB-20-205704	-0.0007	0.0013	N	-0.3000
SFB-20-205705	-0.0012	0.0015	N	-0.2900
SFB-20-206260	-0.0007	0.0013	N	-0.2600
RSRL	0.0183	NA	NA	0.3340
Bottom Feeding BDSL	635	NA	NA	84211

Table S7-30b. Model R

Generalized Linear M	Radium-226 P-value	Radium-228 P-value	Strontium-90 P-value	Uranium-234 P-value
Year	NS	NA	<0.0001	NS
Location	NS	NA	NS	NS
Year x Location	NS	NA	NS	NS

References

DOE (Department of Enent of Energy report DOE-STD-1153-2019.

Table S7-30. Radionuc

Table S7-30a. Fish Resu

Sample ID	Cesium-137 Report Uncertainty	Cesium-137 Detected	Plutonium-238 pCi/g
SFB-20-205684	0.1400	N	0.0032
SFB-20-205685	0.2200	N	0.0034
SFB-20-205686	0.1500	N	0.0017
SFB-20-205687	0.2000	N	0.0014
SFB-20-205688	0.1600	N	0.0019
SFB-20-205689	0.1200	N	0.0017
SFB-20-205696	0.2200	N	0.0022
SFB-20-205697	0.1700	N	0.0054
SFB-20-205698	0.2000	N	0.0000
SFB-20-205699	0.1400	N	0.0005
SFB-20-205700	0.2000	N	0.0020
SFB-20-205701	0.2000	N	0.0026
SFB-20-205702	0.2800	N	-0.0011
SFB-20-205703	0.2900	N	0.0007
SFB-20-205704	0.2100	N	0.0024
SFB-20-205705	0.2600	N	0.0013
SFB-20-206260	0.2200	N	0.0017
RSRL	NA	NA	0.0084
Bottom Feeding BDSL	NA	NA	672

Table S7-30b. Model R

Generalized Linear M	Urainum-235/236 P-value	Uranium-238 P-value
Year	NS	<0.01
Location	NS	<0.05
Year x Location	NS	NS

References

DOE (Department of Er

Table S7-30. Radionuc

Table S7-30a. Fish Resu

Sample ID	Plutonium-238 Report Uncertainty	Plutonium-238 Detected	Plutonium-239/240 pCi/g
SFB-20-205684	0.0012	Y	0.0023
SFB-20-205685	0.0016	N	0.0005
SFB-20-205686	0.0011	N	0.0000
SFB-20-205687	0.0011	N	0.0023
SFB-20-205688	0.0012	Y	0.0024
SFB-20-205689	0.0011	Y	0.0022
SFB-20-205696	0.0014	N	0.0038
SFB-20-205697	0.0018	Y	0.0022
SFB-20-205698	0.0015	N	0.0025
SFB-20-205699	0.0011	N	0.0009
SFB-20-205700	0.0017	Y	0.0027
SFB-20-205701	0.0011	N	0.0000
SFB-20-205702	0.0014	N	0.0039
SFB-20-205703	0.0017	N	0.0048
SFB-20-205704	0.0010	N	0.0016
SFB-20-205705	0.0010	N	0.0004
SFB-20-206260	0.0010	N	0.0013
RSRL	NA	NA	0.0130
Bottom Feeding BDSL	NA	NA	672

Table S7-30b. Model R

Generalized Linear M
Year
Location
Year x Location

References

DOE (Department of Er

Table S7-30. Radionuc

Table S7-30a. Fish Resu

Sample ID	Plutonium-239/240 Report Uncertainty	Plutonium-239/240 Detected	Radium-226 pCi/g
SFB-20-205684	0.0011	Y	0.3500
SFB-20-205685	0.0012	N	0.1100
SFB-20-205686	0.0010	N	0.0670
SFB-20-205687	0.0011	Y	0.1100
SFB-20-205688	0.0013	N	-0.0500
SFB-20-205689	0.0012	N	0.1200
SFB-20-205696	0.0015	Y	**0.5000**
SFB-20-205697	0.0013	N	0.1000
SFB-20-205698	0.0015	N	0.4000
SFB-20-205699	0.0015	N	0.2450
SFB-20-205700	0.0017	Y	0.0000
SFB-20-205701	0.0010	N	0.1960
SFB-20-205702	0.0015	Y	0.3400
SFB-20-205703	0.0021	N	-0.0540
SFB-20-205704	0.0010	Y	0.0840
SFB-20-205705	0.0010	N	0.1010
SFB-20-206260	0.0010	N	0.1880
RSRL	NA	NA	0.4874
Bottom Feeding BDSL	NA	NA	NA

Table S7-30b. Model R

Generalized Linear M
Year
Location
Year x Location

References

DOE (Department of Er

Table S7-30. Radionuc

Table S7-30a. Fish Resu

Sample ID	Radium-226 Report Uncertainty	Radium-226 Detected	Radium-228 pCi/g
SFB-20-205684	0.1300	N	0.2000
SFB-20-205685	0.1100	N	0.1900
SFB-20-205686	0.0920	N	0.3700
SFB-20-205687	0.1200	N	0.2500
SFB-20-205688	0.0870	N	0.3000
SFB-20-205689	0.1000	N	0.4600
SFB-20-205696	0.1500	Y	0.6200
SFB-20-205697	0.2700	N	0.3900
SFB-20-205698	0.1200	Y	0.1700
SFB-20-205699	0.0790	Y	0.0800
SFB-20-205700	0.0860	N	0.3300
SFB-20-205701	0.0940	N	0.0300
SFB-20-205702	0.1100	Y	0.2900
SFB-20-205703	0.0700	N	0.3300
SFB-20-205704	0.0770	N	0.0900
SFB-20-205705	0.0980	N	0.2200
SFB-20-206260	0.0900	N	0.2700
RSRL	NA	NA	1.067
Bottom Feeding BDSL	NA	NA	NA

Table S7-30b. Model R

Generalized Linear M
Year
Location
Year x Location

References

DOE (Department of Er

Table S7-30. Radionuc

Table S7-30a. Fish Resu

Sample ID	Radium-228 Report Uncertainty	Radium-228 Detected	Strontium-90 pCi/g
SFB-20-205684	0.1700	N	0.0310
SFB-20-205685	0.1500	N	0.0520
SFB-20-205686	0.1600	N	0.0410
SFB-20-205687	0.1700	N	0.0520
SFB-20-205688	0.1700	N	0.0490
SFB-20-205689	0.1700	N	0.0180
SFB-20-205696	0.1900	N	0.0800
SFB-20-205697	0.1700	N	0.0360
SFB-20-205698	0.1600	N	0.0360
SFB-20-205699	0.1600	N	0.0410
SFB-20-205700	0.1700	N	0.0680
SFB-20-205701	0.1600	N	0.0140
SFB-20-205702	0.1600	N	-0.0080
SFB-20-205703	0.1700	N	0.0070
SFB-20-205704	0.1600	N	-0.0090
SFB-20-205705	0.1700	N	0.0030
SFB-20-206260	0.1600	N	-0.0070
RSRL	NA	NA	0.3394
Bottom Feeding BDSL	NA	NA	62432

Table S7-30b. Model R

Generalized Linear M
Year
Location
Year x Location

References

DOE (Department of Er

Table S7-30. Radionuc

Table S7-30a. Fish Resu

Sample ID	Strontium-90 Report Uncertainty	Strontium-90 Detected	Uranium-234 pCi/g
SFB-20-205684	0.0170	N	0.0624
SFB-20-205685	0.0230	N	0.0479
SFB-20-205686	0.0210	N	0.0518
SFB-20-205687	0.0210	N	0.0632
SFB-20-205688	0.0250	N	0.0633
SFB-20-205689	0.0180	N	0.0437
SFB-20-205696	0.0290	N	0.0276
SFB-20-205697	0.0240	N	0.0759
SFB-20-205698	0.0300	N	0.0607
SFB-20-205699	0.0210	N	0.0483
SFB-20-205700	0.0210	Y	0.0612
SFB-20-205701	0.0230	N	0.0539
SFB-20-205702	0.0250	N	0.0705
SFB-20-205703	0.0300	N	0.0561
SFB-20-205704	0.0240	N	0.0502
SFB-20-205705	0.0220	N	0.0858
SFB-20-206260	0.0220	N	0.0817
RSRL	NA	NA	0.1816
Bottom Feeding BDSL	NA	NA	726

Table S7-30b. Model R

Generalized Linear M
Year
Location
Year x Location

References

DOE (Department of Er

Table S7-30. Radionuc

Table S7-30a. Fish Resu

Sample ID	Uranium-234 Report Uncertainty	Uranium-234 Detected	Uranium-235/236 pCi/g
SFB-20-205684	0.0076	Y	0.0029
SFB-20-205685	0.006	Y	0.003
SFB-20-205686	0.0068	Y	0.0024
SFB-20-205687	0.0075	Y	0.0038
SFB-20-205688	0.0072	Y	0.0009
SFB-20-205689	0.0059	Y	0.0031
SFB-20-205696	0.0047	Y	0.0027
SFB-20-205697	0.0085	Y	0.0048
SFB-20-205698	0.0074	Y	0.0017
SFB-20-205699	0.0061	Y	0.0027
SFB-20-205700	0.0077	Y	0.0019
SFB-20-205701	0.0065	Y	0.0026
SFB-20-205702	0.0085	Y	0.0013
SFB-20-205703	0.0072	Y	0.0032
SFB-20-205704	0.0062	Y	0.0031
SFB-20-205705	0.0094	Y	0.0028
SFB-20-206260	0.0092	Y	0.0041
RSRL	NA	NA	0.0082
Bottom Feeding BDSL	NA	NA	726

Table S7-30b. Model R

Generalized Linear M
Year
Location
Year x Location

References

DOE (Department of Er

Table S7-30. Radionuc

Table S7-30a. Fish Resu

Sample ID	Uranium 235/236 Report Uncertainty	Uranium235/236 Detected	Uranium-238 pCi/g
SFB-20-205684	0.0016	N	0.0337
SFB-20-205685	0.0013	Y	0.0242
SFB-20-205686	0.0015	Y	0.0307
SFB-20-205687	0.0015	Y	0.0367
SFB-20-205688	0.0012	N	0.0432
SFB-20-205689	0.0015	Y	0.0297
SFB-20-205696	0.0017	Y	0.0201
SFB-20-205697	0.0020	N	0.0521
SFB-20-205698	0.0014	N	0.0323
SFB-20-205699	0.0014	N	0.0293
SFB-20-205700	0.0016	N	0.0454
SFB-20-205701	0.0013	Y	0.0301
SFB-20-205702	0.0018	N	0.0526
SFB-20-205703	0.0016	Y	0.0322
SFB-20-205704	0.0013	Y	0.0251
SFB-20-205705	0.0015	N	0.0535
SFB-20-206260	0.0016	Y	0.0603
RSRL	NA	NA	0.1289
Bottom Feeding BDSL	NA	NA	806

Table S7-30b. Model R

Generalized Linear M
Year
Location
Year x Location

References

DOE (Department of Er

Table S7-30. Radionuc

Table S7-30a. Fish Resu

Sample ID	Uranium-238 Report Uncertainty	Uranium-238 Detected
SFB-20-205684	0.005	Y
SFB-20-205685	0.0038	Y
SFB-20-205686	0.0048	Y
SFB-20-205687	0.0052	Y
SFB-20-205688	0.0055	Y
SFB-20-205689	0.0047	Y
SFB-20-205696	0.0038	Y
SFB-20-205697	0.0065	Y
SFB-20-205698	0.0048	Y
SFB-20-205699	0.0043	Y
SFB-20-205700	0.0062	Y
SFB-20-205701	0.0046	Y
SFB-20-205702	0.0069	Y
SFB-20-205703	0.0051	Y
SFB-20-205704	0.0041	Y
SFB-20-205705	0.0067	Y
SFB-20-206260	0.0073	Y
RSRL	NA	NA
Bottom Feeding BDSL	NA	NA

Table S7-30b. Model R

Generalized Linear M
Year
Location
Year x Location

References

DOE (Department of Er

Table S7-31. Total analyte list concentrations in individual fish collected from the Rio Grande upstream and downstream of Los Alamos C

Table S7-31a. Fish Results

Sample ID	Species	Stream Location	Aluminum (mg/kg)	Aluminum Detected	Antimony (mg/kg)
SFB-20-205684	Channel Catfish	Upstream	4.9	N	0.080
SFB-20-205685	Channel Catfish	Upstream	5.5	N	0.075
SFB-20-205686	Channel Catfish	Upstream	5.0	N	0.074
SFB-20-205687	Channel Catfish	Upstream	4.9	N	0.061
SFB-20-205688	Channel Catfish	Upstream	5.0	N	0.075
SFB-20-205689	Channel Catfish	Upstream	5.4	N	0.074
SFB-20-205696	White Sucker	Dowstream	5.3	N	0.065
SFB-20-205697	Channel Catfish	Dowstream	5.2	N	0.073
SFB-20-205698	Channel Catfish	Dowstream	5.3	N	0.060
SFB-20-205699	Channel Catfish	Dowstream	4.7	N	0.060
SFB-20-205700	Channel Catfish	Dowstream	5.3	N	0.063
SFB-20-205701	Channel Catfish	Dowstream	5.5	N	0.018
SFB-20-205702	Channel Catfish	Dowstream	5.4	N	0.018
SFB-20-205703	Channel Catfish	Dowstream	10.0	Y	0.018
SFB-20-205704	Channel Catfish	Dowstream	4.9	N	0.016
SFB-20-205705	Channel Catfish	Dowstream	4.2	Y	0.015
SFB-20-206260	Channel Catfish	Dowstream	5.4	N	0.018
RSRL	NA	NA	16.5	NA	0.1176

Table S7-31b. Model Results

Generalized Linear Model	Aluminum P-value	Antimony P-value	Arsenic P-value	Barium P-value	Beryllium P-value
Year	<0.01	<0.01	NS	NS	NA
Location	NS	NS	NS	NS	NA
Year x Location	NS	NS	<0.05	NS	NA

Table S7-31. Total analyte list canyon during 2020.

Table S7-31a. Fish Results

Sample ID	Antimony Detected	Arsenic (mg/kg)	Arsenic Detected	Barium (mg/kg)	Barium Detected
SFB-20-205684	N	0.056	Y	0.390	N
SFB-20-205685	N	0.049	N	0.440	N
SFB-20-205686	N	0.044	N	0.400	N
SFB-20-205687	N	0.044	N	0.390	N
SFB-20-205688	N	**0.14**	Y	0.400	N
SFB-20-205689	N	0.049	N	0.440	N
SFB-20-205696	N	0.049	Y	0.690	Y
SFB-20-205697	N	0.11	Y	0.420	N
SFB-20-205698	N	0.047	N	0.420	N
SFB-20-205699	N	0.062	Y	0.370	N
SFB-20-205700	N	0.048	N	0.430	N
SFB-20-205701	N	0.049	N	0.440	N
SFB-20-205702	N	0.048	N	0.440	N
SFB-20-205703	N	0.049	N	0.440	N
SFB-20-205704	N	0.044	N	0.390	N
SFB-20-205705	Y	0.039	Y	0.320	N
SFB-20-206260	N	0.048	N	0.440	N
RSRL	NA	0.1249	NA	1.59	NA

Table S7-31b. Model Results

Generalized Linear Model	Cadmium P-value	Calcium P-value	Chromium P-value	Cobalt P-value	Copper P-value
Year	NA	NS	<0.0001	NA	<0.05
Location	NA	NS	NS	NA	NS
Year x Location	NA	NS	<0.05	NA	NS

Table S7-31. Total analyte list

Table S7-31a. Fish Results

Sample ID	Beryllium (mg/kg)	Beryllium Detecte	Cadmium (mg/kg)	Cadmium Detected	Calcium (mg/kg)
SFB-20-205684	0.049	N	0.020	N	79
SFB-20-205685	0.055	N	0.022	N	77
SFB-20-205686	0.050	N	0.020	N	59
SFB-20-205687	0.049	N	0.020	N	130
SFB-20-205688	0.050	N	0.020	N	49
SFB-20-205689	0.054	N	0.022	N	62
SFB-20-205696	0.053	N	0.021	N	1500
SFB-20-205697	0.052	N	0.021	N	310
SFB-20-205698	0.053	N	0.021	N	90
SFB-20-205699	0.047	N	0.019	N	66
SFB-20-205700	0.053	N	0.021	N	72
SFB-20-205701	0.055	N	0.022	N	66
SFB-20-205702	0.054	N	0.022	N	110
SFB-20-205703	0.055	N	0.022	N	71
SFB-20-205704	0.049	N	0.020	N	77
SFB-20-205705	0.040	N	0.016	N	180
SFB-20-206260	0.054	N	0.022	N	78
RSRL	0.1438	NA	0.0539	NA	3172

Table S7-31b. Model Results

Generalized Linear Model	Iron P-value	Lead P-value	Magnesium P-value	Manganese P-value	Mercury P-value
Year	NS	NS	NS	NS	<0.01
Location	<0.05	NS	<0.05	NS	NS
Year x Location	NS	NS	<0.05	NS	NS

Table S7-31. Total analyte list

Table S7-31a. Fish Results

Sample ID	Calcium Detected	Chromium (mg/kg)	Chromium Detected	Cobalt (mg/kg)	Cobalt Detected
SFB-20-205684	Y	0.160	N	0.089	N
SFB-20-205685	Y	0.180	N	0.099	N
SFB-20-205686	Y	0.160	N	0.090	N
SFB-20-205687	Y	0.160	N	0.090	N
SFB-20-205688	Y	0.160	N	0.091	N
SFB-20-205689	Y	0.180	N	0.099	N
SFB-20-205696	Y	0.170	N	0.096	N
SFB-20-205697	Y	0.170	N	0.095	N
SFB-20-205698	Y	0.170	N	0.096	N
SFB-20-205699	Y	0.150	N	0.085	N
SFB-20-205700	Y	0.170	N	0.097	N
SFB-20-205701	Y	0.180	N	0.100	N
SFB-20-205702	Y	0.180	N	0.099	N
SFB-20-205703	Y	0.180	N	0.100	N
SFB-20-205704	Y	0.160	N	0.090	N
SFB-20-205705	Y	0.130	N	0.072	N
SFB-20-206260	Y	0.180	N	0.099	N
RSRL	NA	0.8535	NA	0.3458	NA

Table S7-31b. Model Results

Generalized Linear Model	Nickel P-value	Potassium P-value	Selenium P-value	Silver P-value	Sodium P-value
Year	NA	NS	<0.05	NA	NS
Location	NA	NS	NS	NA	NS
Year x Location	NA	NS	NS	NA	NS

Table S7-31. Total analyte list

Table S7-31a. Fish Results

Sample ID	Copper (mg/kg)	Copper Detected	Iron (mg/kg)	Iron Detected	Lead (mg/kg)
SFB-20-205684	0.350	Y	20	Y	0.059
SFB-20-205685	0.400	Y	13	Y	0.066
SFB-20-205686	0.210	N	18	Y	0.060
SFB-20-205687	0.240	Y	9.9	Y	0.059
SFB-20-205688	0.210	N	10	Y	0.060
SFB-20-205689	0.230	N	27	Y	0.065
SFB-20-205696	0.220	N	4.5	N	0.064
SFB-20-205697	0.230	Y	5.2	Y	0.062
SFB-20-205698	0.220	N	11	Y	0.063
SFB-20-205699	0.190	N	6.0	Y	0.056
SFB-20-205700	0.450	Y	7.3	Y	0.064
SFB-20-205701	0.230	N	5.6	Y	0.066
SFB-20-205702	0.230	N	8.2	Y	0.065
SFB-20-205703	0.230	N	12	Y	0.066
SFB-20-205704	0.210	N	9.9	Y	0.059
SFB-20-205705	0.220	Y	14	Y	0.048
SFB-20-206260	0.230	N	6.4	Y	0.065
RSRL	0.9177	NA	28.9	NA	0.1140

Table S7-31b. Model Results

Generalized Linear Model	Thallium P-value	Vanadium P-value	Zinc P-value
Year	<0.05	NA	NS
Location	NS	NA	NS
Year x Location	NS	NA	NS

Table S7-31. Total analyte list

Table S7-31a. Fish Results

Sample ID	Lead Detected	Magnesium (mg/kg)	Magnesium Detected	Manganese (mg/kg)
SFB-20-205684	N	150	Y	0.570
SFB-20-205685	N	230	Y	0.360
SFB-20-205686	N	140	Y	0.260
SFB-20-205687	N	220	Y	0.320
SFB-20-205688	N	130	Y	0.610
SFB-20-205689	N	210	Y	0.290
SFB-20-205696	N	300	Y	**2.3**
SFB-20-205697	N	160	Y	0.550
SFB-20-205698	N	190	Y	0.750
SFB-20-205699	N	150	Y	0.260
SFB-20-205700	N	200	Y	0.470
SFB-20-205701	N	330	Y	0.290
SFB-20-205702	N	210	Y	0.390
SFB-20-205703	N	210	Y	0.430
SFB-20-205704	N	**470**	Y	0.280
SFB-20-205705	N	310	Y	0.340
SFB-20-206260	N	320	Y	0.290
RSRL	NA	355	NA	1.66

Table S7-31b. Model Results

Generalized Linear Model
Year
Location
Year x Location

Table S7-31. Total analyte list

Table S7-31a. Fish Results

Sample ID	Manganese Detected	Mercury (mg/kg)	Mercury Detected	Nickel (mg/kg)
SFB-20-205684	Y	0.085	Y	0.370
SFB-20-205685	Y	0.088	Y	0.420
SFB-20-205686	N	0.060	Y	0.380
SFB-20-205687	Y	0.110	Y	0.380
SFB-20-205688	Y	0.022	Y	0.380
SFB-20-205689	N	0.110	Y	0.420
SFB-20-205696	Y	0.044	Y	0.400
SFB-20-205697	Y	0.045	Y	0.400
SFB-20-205698	Y	0.053	Y	0.400
SFB-20-205699	Y	0.110	Y	0.360
SFB-20-205700	Y	0.100	Y	0.410
SFB-20-205701	N	0.270	Y	0.420
SFB-20-205702	Y	0.110	Y	0.420
SFB-20-205703	Y	0.086	Y	0.420
SFB-20-205704	Y	0.089	Y	0.380
SFB-20-205705	Y	0.099	Y	0.300
SFB-20-206260	Y	0.130	Y	0.420
RSRL	NA	0.4287	NA	0.9341

Table S7-31b. Model Results

Generalized Linear Model
Year
Location
Year x Location

Table S7-31. Total analyte list

Table S7-31a. Fish Results

Sample ID	Nickel Detected	Potassium (mg/kg)	Potassium Detected	Selenium (mg/kg)
SFB-20-205684	N	2600	Y	0.280
SFB-20-205685	N	3500	Y	0.480
SFB-20-205686	N	2200	Y	0.250
SFB-20-205687	N	3300	Y	0.300
SFB-20-205688	N	2100	Y	0.180
SFB-20-205689	N	3100	Y	0.240
SFB-20-205696	N	3700	Y	0.220
SFB-20-205697	N	2400	Y	0.240
SFB-20-205698	N	3000	Y	0.320
SFB-20-205699	N	2400	Y	0.420
SFB-20-205700	N	3000	Y	0.540
SFB-20-205701	N	3400	Y	0.200
SFB-20-205702	N	3200	Y	0.350
SFB-20-205703	N	3600	Y	0.250
SFB-20-205704	N	3800	Y	0.240
SFB-20-205705	N	3100	Y	0.310
SFB-20-206260	N	3800	Y	0.200
RSRL	NA	4623	NA	0.7502

Table S7-31b. Model Results

Generalized Linear Model
Year
Location
Year x Location

Table S7-31. Total analyte list

Table S7-31a. Fish Results

Sample ID	Selenium Detected	Silver (mg/kg)	Silver Detected	Sodium (mg/kg)	Sodium Detected
SFB-20-205684	Y	0.0074	N	770	Y
SFB-20-205685	Y	0.0082	N	620	Y
SFB-20-205686	Y	0.0075	N	520	Y
SFB-20-205687	Y	0.0074	N	550	Y
SFB-20-205688	N	0.0076	N	420	Y
SFB-20-205689	Y	0.0082	N	520	Y
SFB-20-205696	Y	0.0080	N	570	Y
SFB-20-205697	Y	0.0079	N	710	Y
SFB-20-205698	Y	0.0079	N	660	Y
SFB-20-205699	Y	0.0070	N	470	Y
SFB-20-205700	Y	0.0081	N	630	Y
SFB-20-205701	N	0.0083	N	660	Y
SFB-20-205702	Y	0.0082	N	660	Y
SFB-20-205703	Y	0.0083	N	**900**	Y
SFB-20-205704	Y	0.0075	N	530	Y
SFB-20-205705	Y	0.0060	N	650	Y
SFB-20-206260	N	0.0082	N	560	Y
RSRL	NA	0.0186	NA	852	NA

Table S7-31b. Model Results

Generalized Linear Model
Year
Location
Year x Location

Table S7-31. Total analyte list

Table S7-31a. Fish Results

Sample ID	Thallium (mg/kg)	Thallium Detected	Vanadium (mg/kg)	Vanadium Detected
SFB-20-205684	0.0022	N	0.089	N
SFB-20-205685	0.0025	N	0.099	N
SFB-20-205686	0.0072	Y	0.090	N
SFB-20-205687	0.0160	Y	0.090	N
SFB-20-205688	0.0140	Y	0.091	N
SFB-20-205689	0.0025	N	0.099	N
SFB-20-205696	0.0024	N	0.096	N
SFB-20-205697	0.0028	Y	0.095	N
SFB-20-205698	0.0067	Y	0.096	N
SFB-20-205699	0.0034	Y	0.085	N
SFB-20-205700	0.0024	N	0.097	N
SFB-20-205701	0.0025	N	0.100	N
SFB-20-205702	0.0025	N	0.099	N
SFB-20-205703	0.0025	N	0.100	N
SFB-20-205704	0.0022	N	0.090	N
SFB-20-205705	0.0022	Y	0.072	N
SFB-20-206260	0.0025	N	0.099	N
RSRL	0.0288	NA	0.9018	NA

Table S7-31b. Model Results

Generalized Linear Model
Year
Location
Year x Location

Table S7-31. Total analyte list

Table S7-31a. Fish Results

Sample ID	Zinc (mg/kg)	Zinc Detected
SFB-20-205684	9.0	Y
SFB-20-205685	4.8	Y
SFB-20-205686	5.9	Y
SFB-20-205687	6.4	Y
SFB-20-205688	5.0	Y
SFB-20-205689	4.5	Y
SFB-20-205696	4.0	Y
SFB-20-205697	11	Y
SFB-20-205698	6.5	Y
SFB-20-205699	4.7	Y
SFB-20-205700	13	Y
SFB-20-205701	5.8	Y
SFB-20-205702	8.0	Y
SFB-20-205703	3.8	Y
SFB-20-205704	7.7	Y
SFB-20-205705	7.3	Y
SFB-20-206260	5.0	Y
RSRL	21.9	NA

Table S7-31b. Model Results

Generalized Linear Model
Year
Location
Year x Location

Table S7-32. Total polychlorinated biphenyl (PCB) concentrations in individual fish collected from the Rio Grande upstream and downstream of Los Alamos Canyon during 2020.

Table S7-32a. Fish Results

Sample ID	Species	Stream Location	Total PCBs mg/kg	PCBs Detected
SFB-20-205684	Channel Catfish	Upstream	0.00360	Y
SFB-20-205685	Channel Catfish	Upstream	0.00117	Y
SFB-20-205686	Channel Catfish	Upstream	0.00249	Y
SFB-20-205687	Channel Catfish	Upstream	0.00310	Y
SFB-20-205688	Channel Catfish	Upstream	0.00145	Y
SFB-20-205689	Channel Catfish	Upstream	0.00382	Y
SFB-20-205696	White Sucker	Downstream	0.00081	Y
SFB-20-205697	Channel Catfish	Downstream	0.00488	Y
SFB-20-205698	Channel Catfish	Downstream	0.00100	Y
SFB-20-205699	Channel Catfish	Downstream	0.00301	Y
SFB-20-205700	Channel Catfish	Downstream	0.00186	Y
SFB-20-205701	Channel Catfish	Downstream	0.00053	Y
SFB-20-205702	Channel Catfish	Downstream	0.00279	Y
SFB-20-205703	Channel Catfish	Downstream	0.00228	Y
SFB-20-205704	Channel Catfish	Downstream	0.00415	Y
SFB-20-205705	Channel Catfish	Downstream	0.00300	Y
SFB-20-206260	Channel Catfish	Downstream	0.00080	Y
RSRL	NA	NA	0.04769	NA

Table S7-32b. Model Results

Generalized Linear Model	P-value
Year	NS
Location	<0.05
Year x Location	NS

Table S7-33. Radionuclide concentrations in individual fish collected from upstream (Abiquiu Reservoir) and downstream (Cochiti Res

Table S7-33a. Fish Results

Sample ID	Species	Reservoir	Tritium pCi/mL	Tritium Report Uncertainty
SFB-20-204713	Channel Catfish	Abiquiu (upstream)	-0.0660	0.0200
SFB-20-204714	White Sucker	Abiquiu (upstream)	-0.0160	0.0250
SFB-20-204715	Channel Catfish	Abiquiu (upstream)	0.1640	0.0390
SFB-20-204716	Channel Catfish	Abiquiu (upstream)	0.0520	0.0300
SFB-20-204717	Carp	Abiquiu (upstream)	0.0240	0.0280
SFB-20-204718	Carp	Abiquiu (upstream)	-0.0630	0.0210
SFB-20-204719	Bluegill	Abiquiu (upstream)	0.0620	0.0310
SFB-20-204720	Bluegill	Abiquiu (upstream)	-0.1160	0.0390
SFB-20-204721	Bluegill	Abiquiu (upstream)	-0.0040	0.0370
SFB-20-204722	Bluegill	Abiquiu (upstream)	0.0530	0.0540
SFB-20-204725	Channel Catfish	Cochiti (downstream)	0.1950	0.0420
SFB-20-204726	Carp sucker	Cochiti (downstream)	0.0350	0.0290
SFB-20-204727	Channel Catfish	Cochiti (downstream)	-0.0530	0.0220
SFB-20-204728	Channel Catfish	Cochiti (downstream)	-0.0040	0.0250
SFB-20-204729	Channel Catfish	Cochiti (downstream)	-0.0100	0.0250
SFB-20-204730	Channel Catfish	Cochiti (downstream)	-0.0320	0.0220
SFB-20-204731	Channel Catfish	Cochiti (downstream)	-0.0480	0.0230
SFB-20-204732	Channel Catfish	Cochiti (downstream)	0.0410	0.0420
SFB-20-204733	Channel Catfish	Cochiti (downstream)	0.0400	0.0310
SFB-20-204734	Channel Catfish	Cochiti (downstream)	0.1150	0.0470
RSRL	NA	NA	0.2775	NA
Bottom Feeding BDSL	NA	NA	345000	NA
Predator BDSL	NA	NA	345000	NA

Table S7-33b. Model Results

Generalized Linear Model	Tritium P-value	Americium-241 P-value	Cesium-137 P-value	Plutonium-238 P-value
Year	NA	NA	NA	NA
Reservoir	NA	NA	NA	NA
Year x Reservoir	NA	NA	NA	NA
Feeding Strategy	NA	NA	NA	NA
Year x Feeding Strategy	NA	NA	NA	NA
Reservoir x Feeding Strategy	NA	NA	NA	NA
Year x Reservoir x Feeding Strategy	NA	NA	NA	NA

References

DOE (Department of Energy). 2019. “A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota,” U.S. Department

Table S7-33. Radionuclide concentrervoir) of Los Alamos Canyon in 2020.

Table S7-33a. Fish Results

Sample ID	Tritium Detected	Americium-241 pCi/g	icium-241 Report Uncert	Americium-241 Detected
SFB-20-204713	N	-0.0067	0.0038	N
SFB-20-204714	N	0.0017	0.0017	N
SFB-20-204715	Y	-0.0007	0.0015	N
SFB-20-204716	N	-0.0011	0.0012	N
SFB-20-204717	N	-0.0002	0.0016	N
SFB-20-204718	N	0.0000	0.0015	N
SFB-20-204719	N	-0.0009	0.0014	N
SFB-20-204720	N	0.0014	0.0016	N
SFB-20-204721	N	-0.0003	0.0015	N
SFB-20-204722	N	0.0001	0.0016	N
SFB-20-204725	N	-0.0006	0.0014	N
SFB-20-204726	N	-0.0011	0.0013	N
SFB-20-204727	N	-0.0005	0.0015	N
SFB-20-204728	N	0.0005	0.0014	N
SFB-20-204729	N	-0.0024	0.0010	N
SFB-20-204730	N	0.0020	0.0017	N
SFB-20-204731	N	-0.0018	0.0012	N
SFB-20-204732	N	-0.0024	0.0013	N
SFB-20-204733	N	-0.0011	0.0014	N
SFB-20-204734	N	-0.0007	0.0013	N
RSRL	NA	0.0125	NA	NA
Bottom Feeding BDSL	NA	635	NA	NA
Predator BDSL	NA	561	NA	NA

Table S7-33b. Model Results

Generalized Linear Model	Plutonium-239/240 P-value	Radium-226 P-value	Radium-228 P-value	Strontium-90 P-value
Year	NA	NA	NA	<0.0001
Reservoir	NA	NA	NA	NS
Year x Reservoir	NA	NA	NA	NS
Feeding Strategy	NA	NA	NA	NS
Year x Feeding Strategy	NA	NA	NA	<0.01
Reservoir x Feeding Strategy	NA	NA	NA	NS
Year x Reservoir x Feeding Strategy	NA	NA	NA	<0.05

References

DOE (Department of Energy). 2019. ‘of Energy report DOE-STD-1153-2019.

Table S7-33. Radionuclide concentr

Table S7-33a. Fish Results

Sample ID	Cesium-137 pCi/g	Cesium-137 Report Uncertainty	Cesium-137 Detected	Plutonium-238 pCi/g
SFB-20-204713	1.100	0.7800	N	0.0900
SFB-20-204714	-0.4100	0.2800	N	0.0019
SFB-20-204715	0.0800	0.2200	N	0.0015
SFB-20-204716	-0.0500	0.2800	N	0.0000
SFB-20-204717	-0.0800	0.2000	N	-0.0021
SFB-20-204718	0.0600	0.2100	N	0.0023
SFB-20-204719	0.1200	0.1500	N	0.0017
SFB-20-204720	-0.4100	0.2300	N	0.0000
SFB-20-204721	-0.0800	0.1600	N	0.0027
SFB-20-204722	-0.1900	0.1300	N	0.0005
SFB-20-204725	-0.5400	0.2000	N	-0.0019
SFB-20-204726	0.1600	0.1800	N	0.0021
SFB-20-204727	-0.1200	0.2000	N	0.0005
SFB-20-204728	-0.2300	0.2100	N	0.0000
SFB-20-204729	0.1700	0.1900	N	0.0027
SFB-20-204730	0.0700	0.2100	N	0.0005
SFB-20-204731	0.1300	0.3200	N	0.0025
SFB-20-204732	-0.4000	0.2100	N	0.0018
SFB-20-204733	-0.0600	0.1600	N	0.0000
SFB-20-204734	-0.0700	0.2300	N	0.0040
RSRL	0.7399	NA	NA	0.0472
Bottom Feeding BDSL	84211	NA	NA	672
Predator BDSL	74359	NA	NA	593

Table S7-33b. Model Results

Generalized Linear Model	Uranium-234 P-value	Urainum-235/236 P-value	Uranium-238 P-value
Year	NS	NS	NS
Reservoir	NS	NS	NS
Year x Reservoir	NS	NS	NS
Feeding Strategy	<0.0001	NS	<0.0001
Year x Feeding Strategy	<0.05	<0.05	NS
Reservoir x Feeding Strategy	NS	NS	NS
Year x Reservoir x Feeding Strategy	NS	NS	NS

References

DOE (Department of Energy). 2019. ‘

Table S7-33. Radionuclide concentr

Table S7-33a. Fish Results

Sample ID	Plutonium-238 Report Uncertainty	Plutonium-238 Detected	Plutonium-239/240 pCi/g
SFB-20-204713	0.1200	N	0.0000
SFB-20-204714	0.0024	N	0.0029
SFB-20-204715	0.0018	N	0.0000
SFB-20-204716	0.0014	N	-0.0011
SFB-20-204717	0.0022	N	0.0014
SFB-20-204718	0.0016	N	0.0028
SFB-20-204719	0.0014	N	0.0023
SFB-20-204720	0.0022	N	0.0009
SFB-20-204721	0.0017	N	0.0013
SFB-20-204722	0.0013	N	0.0043
SFB-20-204725	0.0024	N	0.0029
SFB-20-204726	0.0013	N	0.0021
SFB-20-204727	0.0013	N	0.0011
SFB-20-204728	0.0012	N	0.0019
SFB-20-204729	0.0017	N	0.0007
SFB-20-204730	0.0014	N	0.0016
SFB-20-204731	0.0021	N	0.0017
SFB-20-204732	0.0016	N	0.0006
SFB-20-204733	0.0016	N	0.0013
SFB-20-204734	0.0021	N	0.0047
RSRL	NA	NA	0.0102
Bottom Feeding BDSL	NA	NA	672
Predator BDSL	NA	NA	593

Table S7-33b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Reservoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

References

DOE (Department of Energy). 2019. ‘

Table S7-33. Radionuclide concentr

Table S7-33a. Fish Results

Sample ID	Plutonium-239/240 Report Uncertainty	Plutonium-239/240 Detected	Radium-226 pCi/g
SFB-20-204713	0.1100	N	0.0800
SFB-20-204714	0.0026	N	0.2700
SFB-20-204715	0.0018	N	0.0840
SFB-20-204716	0.0014	N	0.0310
SFB-20-204717	0.0018	N	0.0640
SFB-20-204718	0.0014	N	0.0390
SFB-20-204719	0.0014	N	0.1340
SFB-20-204720	0.0023	N	0.2950
SFB-20-204721	0.0016	N	0.0510
SFB-20-204722	0.0018	N	0.0720
SFB-20-204725	0.0026	N	0.3500
SFB-20-204726	0.0013	N	0.1280
SFB-20-204727	0.0013	N	0.0290
SFB-20-204728	0.0012	N	0.0700
SFB-20-204729	0.0018	N	0.1230
SFB-20-204730	0.0013	N	0.2110
SFB-20-204731	0.0021	N	0.0660
SFB-20-204732	0.0020	N	0.1610
SFB-20-204733	0.0016	N	-0.0280
SFB-20-204734	0.0020	N	0.2460
RSRL	NA	NA	0.4271
Bottom Feeding BDSL	NA	NA	NA
Predator BDSL	NA	NA	NA

Table S7-33b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Reservoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

References

DOE (Department of Energy). 2019. ‘

Table S7-33. Radionuclide concentr

Table S7-33a. Fish Results

Sample ID	Radium-226 Report Uncertainty	Radium-226 Detected	Radium-228 pCi/g
SFB-20-204713	0.1600	N	0.7100
SFB-20-204714	0.1000	N	0.5300
SFB-20-204715	0.0690	N	0.0600
SFB-20-204716	0.0660	N	0.2000
SFB-20-204717	0.0510	N	0.2200
SFB-20-204718	0.0550	N	0.0300
SFB-20-204719	0.0700	N	0.6300
SFB-20-204720	0.0900	N	-0.2100
SFB-20-204721	0.0610	N	0.3300
SFB-20-204722	0.0630	N	0.5900
SFB-20-204725	0.1100	Y	0.5800
SFB-20-204726	0.0720	N	0.4600
SFB-20-204727	0.0670	N	-0.0900
SFB-20-204728	0.0700	N	0.1600
SFB-20-204729	0.0640	N	0.5900
SFB-20-204730	0.0800	N	0.5400
SFB-20-204731	0.0850	N	0.3900
SFB-20-204732	0.0750	N	**1.1400**
SFB-20-204733	0.0600	N	0.1100
SFB-20-204734	0.0750	Y	0.5100
RSRL	NA	NA	1.111
Bottom Feeding BDSL	NA	NA	NA
Predator BDSL	NA	NA	NA

Table S7-33b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Reservoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

References

DOE (Department of Energy). 2019. ‘

Table S7-33. Radionuclide concentr

Table S7-33a. Fish Results

Sample ID	Radium-228 Report Uncertainty	Radium-228 Detected	Strontium-90 pCi/g
SFB-20-204713	0.3400	N	-0.1600
SFB-20-204714	0.1700	N	0.0840
SFB-20-204715	0.1500	N	0.0360
SFB-20-204716	0.1600	N	0.2440
SFB-20-204717	0.1700	N	0.0030
SFB-20-204718	0.1500	N	0.0930
SFB-20-204719	0.1800	N	0.1090
SFB-20-204720	0.1600	N	0.0300
SFB-20-204721	0.1700	N	0.0790
SFB-20-204722	0.1800	N	0.0210
SFB-20-204725	0.1900	N	0.0810
SFB-20-204726	0.1800	N	0.0170
SFB-20-204727	0.1600	N	-0.0100
SFB-20-204728	0.1500	N	0.0640
SFB-20-204729	0.1900	N	0.0360
SFB-20-204730	0.2000	N	0.0220
SFB-20-204731	0.1800	N	-0.0100
SFB-20-204732	0.2400	Y	0.0430
SFB-20-204733	0.1900	N	0.0000
SFB-20-204734	0.1900	N	0.0670
RSRL	NA	NA	0.4451
Bottom Feeding BDSL	NA	NA	62432
Predator BDSL	NA	NA	55128

Table S7-33b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Reservoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

References

DOE (Department of Energy). 2019. ‘

Table S7-33. Radionuclide concentr

Table S7-33a. Fish Results

Sample ID	Strontium-90 Report Uncertainty	Strontium-90 Detected	Uranium-234 pCi/g
SFB-20-204713	0.6300	N	0.0307
SFB-20-204714	0.0200	Y	0.0148
SFB-20-204715	0.0180	N	0.0374
SFB-20-204716	0.0550	Y	0.0285
SFB-20-204717	0.0210	N	0.0273
SFB-20-204718	0.0280	Y	0.0124
SFB-20-204719	0.0270	Y	0.0136
SFB-20-204720	0.0150	N	0.0119
SFB-20-204721	0.0260	Y	0.0129
SFB-20-204722	0.0140	N	0.0700
SFB-20-204725	0.0240	Y	0.0085
SFB-20-204726	0.0140	N	0.0064
SFB-20-204727	0.0290	N	0.0261
SFB-20-204728	0.0170	Y	0.0190
SFB-20-204729	0.0140	N	0.0215
SFB-20-204730	0.0140	N	0.0828
SFB-20-204731	0.5600	N	0.0363
SFB-20-204732	0.0280	N	0.0528
SFB-20-204733	0.0260	N	0.0364
SFB-20-204734	0.0250	N	0.0622
RSRL	NA	NA	0.2349
Bottom Feeding BDSL	NA	NA	726
Predator BDSL	NA	NA	641

Table S7-33b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Reservoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

References

DOE (Department of Energy). 2019. ‘

Table S7-33. Radionuclide concentr

Table S7-33a. Fish Results

Sample ID	Uranium-234 Report Uncertainty	Uranium-234 Detected	Uranium-235/236 pCi/g
SFB-20-204713	0.0088	Y	0.0019
SFB-20-204714	0.0034	N	0.0030
SFB-20-204715	0.0057	Y	0.0020
SFB-20-204716	0.0049	Y	0.0013
SFB-20-204717	0.0042	Y	0.0011
SFB-20-204718	0.0030	N	0.0000
SFB-20-204719	0.0029	N	0.0000
SFB-20-204720	0.0030	N	0.0018
SFB-20-204721	0.0028	N	-0.0011
SFB-20-204722	0.0081	Y	0.0044
SFB-20-204725	0.0026	N	0.0000
SFB-20-204726	0.0022	N	0.0005
SFB-20-204727	0.0042	Y	0.0022
SFB-20-204728	0.0035	N	0.0023
SFB-20-204729	0.0036	N	-0.0006
SFB-20-204730	0.0097	Y	0.0054
SFB-20-204731	0.0056	Y	0.0025
SFB-20-204732	0.0068	Y	0.0028
SFB-20-204733	0.0054	Y	0.0031
SFB-20-204734	0.0078	Y	0.0053
RSRL	NA	NA	0.0123
Bottom Feeding BDSL	NA	NA	726
Predator BDSL	NA	NA	641

Table S7-33b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Reservoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

References

DOE (Department of Energy). 2019. ‘

Table S7-33. Radionuclide concentr

Table S7-33a. Fish Results

Sample ID	Uranium 235/236 Report Uncertainty	Uranium235/236 Detected	Uranium-238 pCi/g
SFB-20-204713	0.0047	N	0.0145
SFB-20-204714	0.0015	Y	0.0092
SFB-20-204715	0.0017	Y	0.0132
SFB-20-204716	0.0016	N	0.0134
SFB-20-204717	0.0014	N	0.0179
SFB-20-204718	0.0015	N	0.0067
SFB-20-204719	0.0015	N	0.0020
SFB-20-204720	0.0015	N	0.0062
SFB-20-204721	0.0014	N	0.0057
SFB-20-204722	0.0016	Y	0.0550
SFB-20-204725	0.0014	N	0.0061
SFB-20-204726	0.0013	N	0.0054
SFB-20-204727	0.0014	Y	0.0126
SFB-20-204728	0.0014	N	0.0117
SFB-20-204729	0.0013	N	0.0150
SFB-20-204730	0.0019	Y	0.0457
SFB-20-204731	0.0018	N	0.0224
SFB-20-204732	0.0017	N	0.0370
SFB-20-204733	0.0016	Y	0.0267
SFB-20-204734	0.0019	Y	0.0390
RSRL	NA	NA	0.1325
Bottom Feeding BDSL	NA	NA	806
Predator BDSL	NA	NA	712

Table S7-33b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Reservoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

References

DOE (Department of Energy). 2019. ‘

Table S7-33. Radionuclide concentr

Table S7-33a. Fish Results

Sample ID	Uranium-238 Report Uncertainty	Uranium-238 Detected
SFB-20-204713	0.0064	N
SFB-20-204714	0.0025	Y
SFB-20-204715	0.0033	Y
SFB-20-204716	0.0034	Y
SFB-20-204717	0.0034	Y
SFB-20-204718	0.0024	Y
SFB-20-204719	0.0016	N
SFB-20-204720	0.0025	N
SFB-20-204721	0.0021	Y
SFB-20-204722	0.0068	Y
SFB-20-204725	0.0019	Y
SFB-20-204726	0.0022	N
SFB-20-204727	0.0029	Y
SFB-20-204728	0.0026	Y
SFB-20-204729	0.0031	Y
SFB-20-204730	0.0064	Y
SFB-20-204731	0.0040	Y
SFB-20-204732	0.0053	Y
SFB-20-204733	0.0047	Y
SFB-20-204734	0.0057	Y
RSRL	NA	NA
Bottom Feeding BDSL	NA	NA
Predator BDSL	NA	NA

Table S7-33b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Reservoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

References

DOE (Department of Energy). 2019. ‘

Table S7-34. Total analyte list concentrations in individual fish collected from Abiquiu (upstream) and Cochiti (downstream) of Los Alamos Ca

Table S7-34a. Fish Results

Sample ID	Species	Reservoir	Aluminum (mg/kg)	Aluminum Detected	Antimony (mg/kg)
SFB-20-204713	Channel Catfish	Abiquiu (upstream)	5.3	N	0.017
SFB-20-204714	White Sucker	Abiquiu (upstream)	5.4	N	0.018
SFB-20-204715	Channel Catfish	Abiquiu (upstream)	5.2	N	0.017
SFB-20-204716	Channel Catfish	Abiquiu (upstream)	5.2	N	0.021
SFB-20-204717	Carp	Abiquiu (upstream)	4.7	N	0.022
SFB-20-204718	Carp	Abiquiu (upstream)	4.9	N	0.020
SFB-20-204719	Bluegill	Abiquiu (upstream)	5.4	N	0.020
SFB-20-204720	Bluegill	Abiquiu (upstream)	4.9	N	0.016
SFB-20-204721	Bluegill	Abiquiu (upstream)	4.9	N	0.016
SFB-20-204722	Bluegill	Abiquiu (upstream)	5.0	N	0.020
SFB-20-204725	Channel Catfish	Cochiti (downstream)	5.0	N	0.023
SFB-20-204726	Carp sucker	Cochiti (downstream)	5.4	N	**0.029**
SFB-20-204727	Channel Catfish	Cochiti (downstream)	5.4	N	**0.030**
SFB-20-204728	Channel Catfish	Cochiti (downstream)	5.0	N	**0.030**
SFB-20-204729	Channel Catfish	Cochiti (downstream)	5.5	N	**0.030**
SFB-20-204730	Channel Catfish	Cochiti (downstream)	5.2	N	0.025
SFB-20-204731	Channel Catfish	Cochiti (downstream)	5.5	N	**0.031**
SFB-20-204732	Channel Catfish	Cochiti (downstream)	5.2	N	0.019
SFB-20-204733	Channel Catfish	Cochiti (downstream)	5.4	N	0.018
SFB-20-204734	Channel Catfish	Cochiti (downstream)	5.4	N	0.023
RSRL	NA	NA	8.6	NA	0.028

Table S7-34b. Model Results

Generalized Linear Model	Aluminum P-value	Antimony P-value	Arsenic P-value	Barium P-value	Beryllium P-value
Year	NS	<0.001	NS	NS	NA
Reservoir	<0.01	NS	NS	NS	NA
Year x Reservoir	NS	NS	NS	NS	NA
Feeding Strategy	<0.001	<0.001	NS	NS	NA
Year x Feeding Strategy	<0.001	<0.001	NS	NS	NA
Resevoir x Feeding Strategy	NS	NS	<0.05	NS	NA
Year x Reservoir x Feeding Strategy	NS	<0.01	<0.05	NS	NA

Table S7-34. Total analyte list concenyon during 2020.

Table S7-34a. Fish Results

Sample ID	Antimony Detected	Arsenic (mg/kg)	Arsenic Detected	Barium (mg/kg)	Barium Detected
SFB-20-204713	N	0.047	N	0.420	N
SFB-20-204714	N	0.048	N	0.750	Y
SFB-20-204715	N	0.047	N	0.420	N
SFB-20-204716	Y	0.046	N	0.410	N
SFB-20-204717	Y	0.078	Y	0.750	Y
SFB-20-204718	Y	0.061	Y	0.960	Y
SFB-20-204719	Y	0.048	N	0.430	N
SFB-20-204720	N	0.064	Y	0.390	N
SFB-20-204721	Y	0.073	Y	0.390	N
SFB-20-204722	Y	0.048	Y	0.560	Y
SFB-20-204725	Y	0.061	Y	0.400	N
SFB-20-204726	Y	0.065	Y	0.430	N
SFB-20-204727	Y	0.064	Y	0.440	N
SFB-20-204728	Y	0.044	N	0.400	N
SFB-20-204729	Y	0.049	N	0.440	N
SFB-20-204730	Y	0.061	Y	0.420	N
SFB-20-204731	Y	0.049	N	0.440	N
SFB-20-204732	Y	0.047	N	0.420	N
SFB-20-204733	Y	0.048	N	0.430	N
SFB-20-204734	Y	0.049	Y	0.430	N
RSRL	NA	0.353	NA	4.7	NA

Table S7-34b. Model Results

Generalized Linear Model	Cadmium P-value	Calcium P-value	Chromium P-value	Cobalt P-value	Copper P-value
Year	NA	<0.05	NS	NA	<0.05
Reservoir	NA	NS	NS	NA	<0.01
Year x Reservoir	NA	NS	NS	NA	<0.0001
Feeding Strategy	NA	<0.05	NS	NA	<0.0001
Year x Feeding Strategy	NA	NS	NS	NA	NS
Resevoir x Feeding Strategy	NA	NS	NS	NA	<0.01
Year x Reservoir x Feeding Strategy	NA	NS	NS	NA	NS

Table S7-34. Total analyte list conce

Table S7-34a. Fish Results

Sample ID	Beryllium (mg/kg	Beryllium Detecte	Cadmium (mg/kg)	Cadmium Detected	Calcium (mg/kg)
SFB-20-204713	0.053	N	0.021	N	100
SFB-20-204714	0.054	N	0.022	N	1900
SFB-20-204715	0.052	N	0.021	N	80
SFB-20-204716	0.052	N	0.021	N	75
SFB-20-204717	0.047	N	0.019	N	1500
SFB-20-204718	0.049	N	0.020	N	1700
SFB-20-204719	0.054	N	0.022	N	1200
SFB-20-204720	0.049	N	0.020	N	2700
SFB-20-204721	0.049	N	0.020	N	940
SFB-20-204722	0.050	N	0.020	N	3900
SFB-20-204725	0.050	N	0.020	N	67
SFB-20-204726	0.054	N	0.022	N	99
SFB-20-204727	0.054	N	0.022	N	73
SFB-20-204728	0.050	N	0.020	N	65
SFB-20-204729	0.055	N	0.022	N	74
SFB-20-204730	0.052	N	0.021	N	63
SFB-20-204731	0.055	N	0.022	N	57
SFB-20-204732	0.052	N	0.021	N	65
SFB-20-204733	0.054	N	0.022	N	58
SFB-20-204734	0.054	N	0.021	N	64
RSRL	0.075	NA	0.036	NA	6080

Table S7-34b. Model Results

Generalized Linear Model	Iron P-value	Lead P-value	Magnesium P-value	Manganese P-value	Mercury P-value
Year	NS	NS	<0.05	NS	NS
Reservoir	NS	NS	<0.05	NS	NS
Year x Reservoir	NS	<0.01	NS	NS	NS
Feeding Strategy	<0.05	<0.001	<0.05	<0.05	<0.0001
Year x Feeding Strategy	NS	NS	<0.01	NS	NS
Resevoir x Feeding Strategy	NS	NS	NS	<0.01	NS
Year x Reservoir x Feeding Strategy	NS	<0.001	NS	NS	NS

Table S7-34. Total analyte list conce

Table S7-34a. Fish Results

Sample ID	Calcium Detected	Chromium (mg/kg)	Chromium Detected	Cobalt (mg/kg)	Cobalt Detected
SFB-20-204713	Y	0.17	N	0.096	N
SFB-20-204714	Y	0.18	N	0.098	N
SFB-20-204715	Y	0.17	N	0.095	N
SFB-20-204716	N	0.17	N	0.094	N
SFB-20-204717	Y	0.16	N	0.086	N
SFB-20-204718	Y	0.16	N	0.090	N
SFB-20-204719	Y	0.18	N	0.098	N
SFB-20-204720	Y	0.16	N	0.089	N
SFB-20-204721	Y	0.16	N	0.090	N
SFB-20-204722	Y	0.16	N	0.090	N
SFB-20-204725	N	0.16	N	0.092	N
SFB-20-204726	Y	0.18	N	0.098	N
SFB-20-204727	N	0.18	N	0.099	N
SFB-20-204728	N	0.16	N	0.090	N
SFB-20-204729	N	0.18	N	0.099	N
SFB-20-204730	N	0.17	N	0.095	N
SFB-20-204731	N	**0.76**	Y	0.099	N
SFB-20-204732	N	0.17	N	0.095	N
SFB-20-204733	N	0.18	N	0.099	N
SFB-20-204734	N	0.18	N	0.098	N
RSRL	NA	0.292	NA	0.166	NA

Table S7-34b. Model Results

Generalized Linear Model	Nickel P-value	Potassium P-value	Selenium P-value	Silver P-value	Sodium P-value
Year	NA	<0.0001	NS	NA	NS
Reservoir	NA	NS	<0.0001	NA	NS
Year x Reservoir	NA	NS	NS	NA	NS
Feeding Strategy	NA	NS	<0.05	NA	NS
Year x Feeding Strategy	NA	NS	NS	NA	<0.05
Resevoir x Feeding Strategy	NA	NS	NS	NA	NS
Year x Reservoir x Feeding Strategy	NA	NS	NS	NA	NS

Table S7-34. Total analyte list conce

Table S7-34a. Fish Results

Sample ID	Copper (mg/kg)	Copper Detected	Iron (mg/kg)	Iron Detected	Lead (mg/kg)
SFB-20-204713	0.220	N	4.5	N	0.063
SFB-20-204714	0.230	N	11	Y	0.065
SFB-20-204715	0.220	N	4.8	Y	0.063
SFB-20-204716	0.330	Y	7.9	Y	0.062
SFB-20-204717	0.270	Y	5.9	Y	0.057
SFB-20-204718	0.250	Y	12	Y	0.059
SFB-20-204719	0.230	N	4.6	N	0.065
SFB-20-204720	0.210	N	4.2	N	0.059
SFB-20-204721	0.210	N	4.2	N	0.059
SFB-20-204722	0.250	Y	5.1	Y	0.060
SFB-20-204725	0.210	N	8.3	Y	0.060
SFB-20-204726	0.260	Y	5.1	Y	0.065
SFB-20-204727	0.230	N	8.9	Y	0.065
SFB-20-204728	0.210	N	4.2	N	0.059
SFB-20-204729	0.230	N	4.7	N	0.066
SFB-20-204730	0.240	Y	8.3	Y	0.062
SFB-20-204731	0.230	N	9.3	Y	0.066
SFB-20-204732	0.220	N	12	Y	0.063
SFB-20-204733	0.230	N	4.6	N	0.065
SFB-20-204734	0.220	N	16	Y	0.064
RSRL	0.398	NA	38.4	NA	0.108

Table S7-34b. Model Results

Generalized Linear Model	Thallium P-value	Vanadium P-value	Zinc P-value
Year	NS	NA	<0.01
Reservoir	NS	NA	NS
Year x Reservoir	<0.05	NA	<0.05
Feeding Strategy	<0.05	NA	<0.0001
Year x Feeding Strategy	NS	NA	NS
Resevoir x Feeding Strategy	NS	NA	NS
Year x Reservoir x Feeding Strategy	NS	NA	NS

Table S7-34. Total analyte list conce

Table S7-34a. Fish Results

Sample ID	Lead Detected	Magnesium (mg/kg)	Magnesium Detected	Manganese (mg/kg)
SFB-20-204713	N	260	Y	0.28
SFB-20-204714	N	290	Y	**1.2**
SFB-20-204715	N	180	Y	0.28
SFB-20-204716	N	160	Y	0.75
SFB-20-204717	N	280	Y	0.66
SFB-20-204718	N	290	Y	0.62
SFB-20-204719	N	270	Y	0.29
SFB-20-204720	N	260	Y	0.26
SFB-20-204721	N	260	Y	0.26
SFB-20-204722	N	280	Y	0.38
SFB-20-204725	N	180	Y	0.27
SFB-20-204726	N	220	Y	0.34
SFB-20-204727	N	220	Y	0.61
SFB-20-204728	N	200	Y	0.26
SFB-20-204729	N	220	Y	0.29
SFB-20-204730	N	190	Y	0.27
SFB-20-204731	N	210	Y	0.46
SFB-20-204732	N	200	Y	0.99
SFB-20-204733	N	230	Y	0.29
SFB-20-204734	N	220	Y	0.28
RSRL	NA	394	NA	1.10

Table S7-34b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Resevoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

Table S7-34. Total analyte list conce

Table S7-34a. Fish Results

Sample ID	Manganese Detected	Mercury (mg/kg)	Mercury Detected	Nickel (mg/kg)
SFB-20-204713	N	0.110	Y	0.400
SFB-20-204714	Y	0.094	Y	0.410
SFB-20-204715	N	0.670	Y	0.400
SFB-20-204716	Y	0.760	Y	0.390
SFB-20-204717	Y	0.130	Y	0.360
SFB-20-204718	Y	0.130	Y	0.380
SFB-20-204719	N	0.180	Y	0.410
SFB-20-204720	N	0.250	Y	0.370
SFB-20-204721	N	0.190	Y	0.380
SFB-20-204722	Y	0.150	Y	0.380
SFB-20-204725	N	0.052	Y	0.380
SFB-20-204726	Y	0.061	Y	0.410
SFB-20-204727	Y	0.076	Y	0.420
SFB-20-204728	N	0.210	Y	0.380
SFB-20-204729	N	0.074	Y	0.420
SFB-20-204730	N	0.110	Y	0.400
SFB-20-204731	Y	0.099	Y	0.420
SFB-20-204732	Y	0.069	Y	0.400
SFB-20-204733	N	0.056	Y	0.410
SFB-20-204734	N	0.056	Y	0.410
RSRL	NA	0.963	NA	0.589

Table S7-34b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Resevoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

Table S7-34. Total analyte list conce

Table S7-34a. Fish Results

Sample ID	Nickel Detected	Potassium (mg/kg)	Potassium Detected	Selenium (mg/kg)
SFB-20-204713	N	3800	Y	0.28
SFB-20-204714	N	3600	Y	0.56
SFB-20-204715	N	3000	Y	0.21
SFB-20-204716	N	2800	Y	0.26
SFB-20-204717	N	3100	Y	0.72
SFB-20-204718	N	3200	Y	0.66
SFB-20-204719	N	3300	Y	0.49
SFB-20-204720	N	2900	Y	0.40
SFB-20-204721	N	3100	Y	0.58
SFB-20-204722	N	3100	Y	0.47
SFB-20-204725	N	2900	Y	0.18
SFB-20-204726	N	2900	Y	0.28
SFB-20-204727	N	3300	Y	0.25
SFB-20-204728	N	3100	Y	0.18
SFB-20-204729	N	3200	Y	0.20
SFB-20-204730	N	3100	Y	0.29
SFB-20-204731	N	3200	Y	0.27
SFB-20-204732	N	3100	Y	0.31
SFB-20-204733	N	3500	Y	0.24
SFB-20-204734	N	3400	Y	0.24
RSRL	NA	4295	NA	0.861

Table S7-34b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Resevoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

Table S7-34. Total analyte list conce

Table S7-34a. Fish Results

Sample ID	Selenium Detected	Silver (mg/kg)	Silver Detected	Sodium (mg/kg)
SFB-20-204713	Y	0.008	N	600
SFB-20-204714	Y	0.0081	N	580
SFB-20-204715	Y	0.0079	N	740
SFB-20-204716	Y	0.0078	N	850
SFB-20-204717	Y	0.0072	N	630
SFB-20-204718	Y	0.0075	N	560
SFB-20-204719	Y	0.0082	N	460
SFB-20-204720	Y	0.0074	N	770
SFB-20-204721	Y	0.0074	N	640
SFB-20-204722	Y	0.0075	N	690
SFB-20-204725	N	0.0076	N	410
SFB-20-204726	Y	0.0081	N	380
SFB-20-204727	Y	0.0082	N	510
SFB-20-204728	N	0.0075	N	650
SFB-20-204729	N	0.0083	N	600
SFB-20-204730	Y	0.0079	N	700
SFB-20-204731	Y	0.0082	N	600
SFB-20-204732	Y	0.0079	N	570
SFB-20-204733	Y	0.0082	N	530
SFB-20-204734	Y	0.0081	N	700
RSRL	NA	0.011	NA	945

Table S7-34b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Resevoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

Table S7-34. Total analyte list conce

Table S7-34a. Fish Results

Sample ID	Sodium Detected	Thallium (mg/kg)	Thallium Detected	Vanadium (mg/kg)
SFB-20-204713	Y	0.0024	N	0.0960
SFB-20-204714	Y	0.0025	N	0.0980
SFB-20-204715	Y	0.0024	N	0.0950
SFB-20-204716	Y	0.0180	Y	0.0940
SFB-20-204717	Y	0.0190	Y	0.0860
SFB-20-204718	Y	0.0022	N	0.0900
SFB-20-204719	Y	0.0030	Y	0.0980
SFB-20-204720	Y	0.0036	Y	0.0890
SFB-20-204721	Y	0.0022	N	0.0900
SFB-20-204722	Y	0.0036	Y	0.0900
SFB-20-204725	Y	0.0023	N	0.0920
SFB-20-204726	Y	0.0024	N	0.0980
SFB-20-204727	Y	0.0025	N	0.0990
SFB-20-204728	Y	0.0023	N	0.0900
SFB-20-204729	Y	0.0025	N	0.0990
SFB-20-204730	Y	0.0024	N	0.0950
SFB-20-204731	Y	0.0025	N	0.0990
SFB-20-204732	Y	0.0024	N	0.0950
SFB-20-204733	Y	0.0025	N	0.0990
SFB-20-204734	Y	0.0024	N	0.0980
RSRL	NA	0.019	NA	0.180

Table S7-34b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Resevoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

Table S7-34. Total analyte list conce

Table S7-34a. Fish Results

Sample ID	Vanadium Detected	Zinc (mg/kg)	Zinc Detected
SFB-20-204713	N	7.3	Y
SFB-20-204714	N	6.6	Y
SFB-20-204715	N	7.7	Y
SFB-20-204716	N	13	Y
SFB-20-204717	N	11	Y
SFB-20-204718	N	12	Y
SFB-20-204719	N	7.9	Y
SFB-20-204720	N	6.0	Y
SFB-20-204721	N	5.3	Y
SFB-20-204722	N	7.2	Y
SFB-20-204725	N	6.4	Y
SFB-20-204726	N	4.7	Y
SFB-20-204727	N	10	Y
SFB-20-204728	N	5.5	Y
SFB-20-204729	N	5.8	Y
SFB-20-204730	N	14	Y
SFB-20-204731	N	6.1	Y
SFB-20-204732	N	4.9	Y
SFB-20-204733	N	3.6	Y
SFB-20-204734	N	7.7	Y
RSRL	NA	24.2	NA

Table S7-34b. Model Results

Generalized Linear Model
Year
Reservoir
Year x Reservoir
Feeding Strategy
Year x Feeding Strategy
Resevoir x Feeding Strategy
Year x Reservoir x Feeding Strategy

Table S7-35. Total polychlorinated biphenyl (PCB) concentrations in individual fish collected from Abiquiu (upstream) and Coc

Table S7-35a. Fish Results

Sample ID	Species	Reservoir	Total PCBs mg/kg
SFB-20-204713	Channel Catfish	Abiquiu (upstream)	0.00058
SFB-20-204714	White Sucker	Abiquiu (upstream)	0.00012
SFB-20-204715	Channel Catfish	Abiquiu (upstream)	0.00555
SFB-20-204716	Channel Catfish	Abiquiu (upstream)	0.00310
SFB-20-204717	Carp	Abiquiu (upstream)	0.00143
SFB-20-204718	Carp	Abiquiu (upstream)	0.00134
SFB-20-204719	Bluegill	Abiquiu (upstream)	0.00022
SFB-20-204720	Bluegill	Abiquiu (upstream)	0.00019
SFB-20-204721	Bluegill	Abiquiu (upstream)	0.00014
SFB-20-204722	Bluegill	Abiquiu (upstream)	0.00010
SFB-20-204733	Channel Catfish	Cochiti (downstream)	0.00117
SFB-20-204731	Channel Catfish	Cochiti (downstream)	0.00153
SFB-20-204727	Channel Catfish	Cochiti (downstream)	0.00258
SFB-20-204725	Channel Catfish	Cochiti (downstream)	0.00283
SFB-20-204730	Channel Catfish	Cochiti (downstream)	0.00299
SFB-20-204729	Channel Catfish	Cochiti (downstream)	0.00335
SFB-20-204734	Channel Catfish	Cochiti (downstream)	0.00350
SFB-20-204726	Carp sucker	Cochiti (downstream)	**0.00573**
SFB-20-204728	Channel Catfish	Cochiti (downstream)	**0.00582**
SFB-20-204732	Channel Catfish	Cochiti (downstream)	**0.00780**
RSRL	NA	NA	0.00565

Table S7-35b. Model Results

Generalized Linear Model	P-value
Year	NS
Location	<0.0001
Year x Location	NS
Feeding Strategy	<0.0001
Year x Feeding Strategy	NS
Location x Feeding Strategy	<0.05
Year x Location x Feeding Strategy	NS

Table S7-35. Total polychlorinated łhiti (downstream) of Los Alamos Canyon during 2020.

Table S7-35a. Fish Results

Sample ID	PCBs Detected
SFB-20-204713	Y
SFB-20-204714	Y
SFB-20-204715	Y
SFB-20-204716	Y
SFB-20-204717	Y
SFB-20-204718	Y
SFB-20-204719	Y
SFB-20-204720	Y
SFB-20-204721	Y
SFB-20-204722	Y
SFB-20-204733	Y
SFB-20-204731	Y
SFB-20-204727	Y
SFB-20-204725	Y
SFB-20-204730	Y
SFB-20-204729	Y
SFB-20-204734	Y
SFB-20-204726	Y
SFB-20-204728	Y
SFB-20-204732	Y
RSRL	NA

Table S7-35b. Model Results

Generalized Linear Model
Year
Location
Year x Location
Feeding Strategy
Year x Feeding Strategy
Location x Feeding Strategy
Year x Location x Feeding Strategy

Table S7-36. Total analyte list concentrations (mg/kg) in whole body individual crayfish samples collected from the Rio Grande,

Sample ID	Location	Aluminum (mg/kg)	Aluminum Detected	Antimony (mg/kg)
SFB-20-205709	Rio Grande Upstream	180	Y	**0.019**
SFB-20-205710	Rio Grande Upstream	200	Y	0.017
SFB-20-205711	Rio Grande Upstream	71	Y	0.014
SFB-20-205720	Rio Grande Downstream	54	Y	0.025
SFB-20-205721	Rio Grande Downstream	45	Y	0.027
SFB-20-204749	Cochiti Reservoir (downstream)	62	Y	0.006
RSRL	NA	302	NA	0.110

Table S7-36. Totupstream and downstram of Los Alamos Canyon and from Cochiti reservoir in 2020.

Sample ID	Antimony Detected	Arsenic (mg/kg)	Arsenic Detected	Barium (mg/kg)	Barium Detected
SFB-20-205709	Y	0.200	Y	41.0	Y
SFB-20-205710	N	0.270	Y	48.0	Y
SFB-20-205711	N	0.440	Y	37.0	Y
SFB-20-205720	Y	0.540	Y	47.0	Y
SFB-20-205721	N	0.220	Y	28.0	Y
SFB-20-204749	Y	0.370	Y	44	Y
RSRL	NA	0.919	NA	140	NA

Table S7-36. Tot

Sample ID	Beryllium (mg/kg)	Beryllium Detected	Cadmium (mg/kg)	Cadmium Detected	Calcium (mg/kg)
SFB-20-205709	0.038	N	0.016	Y	22000
SFB-20-205710	0.053	N	0.026	Y	23000
SFB-20-205711	0.007	Y	0.018	Y	36000
SFB-20-205720	0.042	N	0.021	Y	26000
SFB-20-205721	0.007	Y	0.016	Y	26000
SFB-20-204749	0.010	Y	0.018	Y	32000
RSRL	0.099	NA	0.070	NA	76447

Table S7-36. Tot

Sample ID	Calcium Detected	Chromium (mg/kg)	Chromium Detected	Cobalt (mg/kg)	Cobalt Detected
SFB-20-205709	Y	0.160	Y	0.070	N
SFB-20-205710	Y	0.170	N	0.096	N
SFB-20-205711	Y	0.120	Y	0.083	Y
SFB-20-205720	Y	0.140	N	0.076	N
SFB-20-205721	Y	0.082	Y	0.110	Y
SFB-20-204749	Y	0.099	Y	0.053	Y
RSRL	NA	0.469	NA	0.409	NA

Table S7-36. Tot

Sample ID	Copper (mg/kg)	Copper Detected	Iron (mg/kg)	Iron Detected	Lead (mg/kg)	Lead Detected
SFB-20-205709	20.0	Y	140	Y	0.095	Y
SFB-20-205710	23.0	Y	160	Y	0.100	Y
SFB-20-205711	25.0	Y	36.0	Y	0.025	Y
SFB-20-205720	25.0	Y	52.0	Y	0.050	N
SFB-20-205721	15.0	Y	35.0	Y	0.130	Y
SFB-20-204749	11.0	Y	57.0	Y	0.085	Y
RSRL	42.7	NA	226	NA	0.288	NA

Table S7-36. Tot

Sample ID	Magnesium (mg/kg)	Magnesium Detected	Manganese (mg/kg)	Manganese Detected
SFB-20-205709	390	Y	15.0	Y
SFB-20-205710	380	Y	20.0	Y
SFB-20-205711	370	Y	18.0	Y
SFB-20-205720	460	Y	21.0	Y
SFB-20-205721	250	Y	12.0	Y
SFB-20-204749	320	Y	22.0	Y
RSRL	834	NA	76.0	NA

Table S7-36. Tot

Table S7-37. Total analyte

Sample ID	Mercury (mg/kg)	Mercury Detected	Nickel (mg/kg)	Nickel Detected	Potassium (mg/kg)
SFB-20-205709	0.017	Y	0.350	Y	2400
SFB-20-205710	0.020	Y	0.400	N	2500
SFB-20-205711	0.010	Y	0.120	Y	2400
SFB-20-205720	0.016	Y	0.320	N	2800
SFB-20-205721	0.013	Y	0.190	Y	2300
SFB-20-204749	0.006	N	0.160	Y	1900
RSRL	0.051	NA	0.584	NA	3748

Table S7-36. Tot list concentrations (mg/kg) in whole body crayfish samples collected from the Rio Grande, upstream and downstram of Los A

Sample ID	Potassium Detected	Selenium (mg/kg)	Selenium Detected	Silver (mg/kg)	Silver Detected
SFB-20-205709	Y	0.240	Y	0.035	Y
SFB-20-205710	Y	0.250	Y	0.045	Y
SFB-20-205711	Y	0.230	Y	0.042	Y
SFB-20-205720	Y	0.300	Y	0.050	Y
SFB-20-205721	Y	0.240	Y	0.027	Y
SFB-20-204749	Y	0.220	Y	0.023	Y
RSRL	NA	0.360	NA	0.071	NA

Table S7-36. Totlamos Canyon and from Cochiti reservoir in 2020.

Sample ID	Sodium (mg/kg)	Sodium Detected	Thallium (mg/kg)	Thallium Detected	Vanadium (mg/kg)
SFB-20-205709	1500	Y	0.003	Y	0.270
SFB-20-205710	1600	Y	0.003	Y	0.190
SFB-20-205711	2100	Y	0.003	Y	0.091
SFB-20-205720	1800	Y	0.036	Y	0.076
SFB-20-205721	2200	Y	0.002	Y	0.100
SFB-20-204749	2200	Y	0.001	Y	0.140
RSRL	3437	NA	0.010	NA	0.504

Table S7-36. Tot

Sample ID	Vanadium Detected	Zinc (mg/kg)	Zinc Detected
SFB-20-205709	Y	14.0	Y
SFB-20-205710	Y	17.0	Y
SFB-20-205711	Y	13.0	Y
SFB-20-205720	N	16.0	Y
SFB-20-205721	Y	10.0	Y
SFB-20-204749	Y	18.0	Y
RSRL	NA	46.5	NA

Table S7-37. Radionuclide concentrations in sediment collected from the Rio Grande upstream and downstream of Los Alamos Ca

Location/Mi from LAC	Stream Location	Tritium pCi/mL	Tritium Report Uncertainty	Tritium Detected
4.4	Upstream	-0.015	0.010	N
2.4	Upstream	-0.002	0.013	N
2.0	Upstream	0.022	0.014	N
1.8	Upstream	-0.003	0.016	N
1.4	Upstream	0.000	0.015	N
1.0	Upstream	-0.031	0.013	N
NM 502/0.30	Upstream	-0.013	0.010	N
Los Alamos Canyon	Downstream	-0.016	0.010	N
0.30	Downstream	-0.019	0.007	N
2.8	Downstream	-0.067	0.036	N
Sandia Canyon/3.2	Downstream	-0.015	0.007	N
3.3	Downstream	0.010	0.011	N
Mortandad Canyon/4.2	Downstream	0.052	0.018	Y
9.0	Downstream	0.066	0.020	Y
Ancho Canyon/9.2	Downstream	0.034	0.017	N
RSRL	NA	1.60	NA	NA
NE-ESL	NA	660000	NA	NA
LE-ESL	NA	6600000	NA	NA

References

"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62152, acce

Table S7-37. Radionuclide nyon (LAC) during 2020.

Location/Mi from LAC	Americium-241 pCi/g	Americium-241 Report Uncertainty	Americium-241 Detected
4.4	0.0005	0.0041	N
2.4	-0.0007	0.0029	N
2.0	-0.0003	0.0032	N
1.8	0.0006	0.0030	N
1.4	-0.0029	0.0027	N
1.0	0.0040	0.0036	N
NM 502/0.30	0.0000	0.0030	N
Los Alamos Canyon	-0.0035	0.0036	N
0.30	-0.0038	0.0033	N
2.8	-0.0001	0.0047	N
Sandia Canyon/3.2	-0.0054	0.0044	N
3.3	0.0041	0.0058	N
Mortandad Canyon/4.2	0.0062	0.0035	N
9.0	0.0041	0.0037	N
Ancho Canyon/9.2	0.0001	0.0034	N
RSRL	0.0147	NA	NA
NE-ESL	66000	NA	NA
LE-ESL	660000	NA	NA

References

"ECORISK Database," R4.2;ssed Feb 2021

Table S7-37. Radionuclide (

Location/Mi from LAC	Cesium-137 pCi/g	Cesium-137 Report Uncertainty	Cesium-137 Detected
4.4	0.0180	0.0330	N
2.4	-0.0050	0.0380	N
2.0	-0.0670	0.0380	N
1.8	0.0380	0.0340	N
1.4	0.0220	0.0330	N
1.0	0.0370	0.0340	N
NM 502/0.30	0.0520	0.0400	N
Los Alamos Canyon	0.0390	0.0410	N
0.30	0.0000	0.0340	N
2.8	0.0800	0.0300	N
Sandia Canyon/3.2	0.0270	0.0350	N
3.3	0.0270	0.0300	N
Mortandad Canyon/4.2	0.0050	0.0380	N
9.0	0.0260	0.0300	N
Ancho Canyon/9.2	0.0400	0.0330	N
RSRL	0.2483	NA	NA
NE-ESL	5000	NA	NA
LE-ESL	50000	NA	NA

References

"ECORISK Database," R4.2,

Table S7-37. Radionuclide (

Location/Mi from LAC	Plutonium-238 pCi/g	Plutonium-238 Report Uncertainty	Plutonium-238 Detected
4.4	0.0011	0.0026	N
2.4	0.0061	0.0025	Y
2.0	0.0000	0.0030	N
1.8	0.0067	0.0028	Y
1.4	0.0075	0.0029	Y
1.0	0.0060	0.0030	Y
NM 502/0.30	0.0033	0.0027	Y
Los Alamos Canyon	0.0053	0.0026	Y
0.30	0.0055	0.0030	N
2.8	0.0076	0.0047	Y
Sandia Canyon/3.2	0.0070	0.0062	N
3.3	0.0104	0.0052	Y
Mortandad Canyon/4.2	0.0044	0.0027	Y
9.0	0.0036	0.0029	Y
Ancho Canyon/9.2	0.0000	0.0027	N
RSRL	0.0175	NA	NA
NE-ESL	400000	NA	NA
LE-ESL	4000000	NA	NA

References

"ECORISK Database," R4.2,

Table S7-37. Radionuclide (

Location/Mi from LAC	Plutonium-239/240 pCi/g	Plutonium-239/240 Report Uncertainty	Plutonium-239/240 Detected
4.4	0.0129	0.0042	Y
2.4	0.0030	0.0034	N
2.0	0.0025	0.0030	N
1.8	0.0045	0.0028	Y
1.4	0.0075	0.0029	Y
1.0	0.0084	0.0032	Y
NM 502/0.30	0.0000	0.0027	N
Los Alamos Canyon	0.0147	0.0044	Y
0.30	0.0099	0.0037	Y
2.8	0.0095	0.0047	Y
Sandia Canyon/3.2	0.0000	0.0057	N
3.3	0.0062	0.0051	N
Mortandad Canyon/4.2	0.0098	0.0034	Y
9.0	0.0072	0.0034	N
Ancho Canyon/9.2	0.0044	0.0031	N
RSRL	0.0295	NA	NA
NE-ESL	710000	NA	NA
LE-ESL	7100000	NA	NA

References

"ECORISK Database," R4.2,

Table S7-37. Radionuclide (

Location/Mi from LAC	Radium-226 pCi/g	Radium-226 Report Uncertainty	Radium-226 Detected
4.4	0.560	0.110	Y
2.4	0.390	0.094	Y
2.0	0.318	0.081	Y
1.8	0.390	0.100	Y
1.4	0.540	0.120	Y
1.0	0.650	0.120	Y
NM 502/0.30	0.690	0.120	Y
Los Alamos Canyon	0.330	0.100	Y
0.30	0.290	0.100	N
2.8	0.750	0.140	Y
Sandia Canyon/3.2	0.417	0.091	Y
3.3	0.740	0.130	Y
Mortandad Canyon/4.2	0.560	0.100	Y
9.0	0.530	0.110	Y
Ancho Canyon/9.2	0.395	0.085	Y
RSRL	2.269600436	NA	NA
NE-ESL	1400	NA	NA
LE-ESL	14000	NA	NA

References

"ECORISK Database," R4.2,

Table S7-37. Radionuclide (

Location/Mi from LAC	Radium-228 pCi/g	Radium-228 Report Uncertainty	Radium-228 Detected
4.4	0.600	0.170	N
2.4	0.790	0.210	Y
2.0	0.620	0.180	N
1.8	1.00	0.220	Y
1.4	0.700	0.190	Y
1.0	0.800	0.190	Y
NM 502/0.30	1.55	0.260	Y
Los Alamos Canyon	0.790	0.190	Y
0.30	1.37	0.240	Y
2.8	1.18	0.230	Y
Sandia Canyon/3.2	0.640	0.170	Y
3.3	0.800	0.190	Y
Mortandad Canyon/4.2	1.15	0.230	Y
9.0	0.600	0.180	N
Ancho Canyon/9.2	1.00	0.230	Y
RSRL	1.68	NA	NA
NE-ESL	2800	NA	NA
LE-ESL	28000	NA	NA

References

"ECORISK Database," R4.2,

Table S7-37. Radionuclide (

Location/Mi from LAC	Strontium-90 pCi/g	Strontium-90 Report Uncertainty	Strontium-90 Detected
4.4	-0.0010	0.0320	N
2.4	0.1280	0.0300	Y
2.0	0.0180	0.0220	N
1.8	-0.0310	0.0390	N
1.4	0.0770	0.0390	N
1.0	0.0810	0.0380	N
NM 502/0.30	-0.0180	0.0330	N
Los Alamos Canyon	-0.0840	0.0360	N
0.30	-0.0300	0.0370	N
2.8	0.0850	0.0320	N
Sandia Canyon/3.2	0.1990	0.0400	Y
3.3	0.0210	0.0320	N
Mortandad Canyon/4.2	-0.0540	0.0240	N
9.0	0.1690	0.0300	Y
Ancho Canyon/9.2	-0.0220	0.0230	N
RSRL	0.200908939	NA	NA
NE-ESL	3400	NA	NA
LE-ESL	34000	NA	NA

References

"ECORISK Database," R4.2,

Table S7-37. Radionuclide (

Location/Mi from LAC	Uranium-234 pCi/g	Uranium-234 Report Uncertainty	Uranium-234 Detected
4.4	0.7130	0.0620	Y
2.4	0.6890	0.0620	Y
2.0	0.4430	0.0410	Y
1.8	0.5600	0.0500	Y
1.4	0.6820	0.0600	Y
1.0	0.8010	0.0690	Y
NM 502/0.30	0.5240	0.0470	Y
Los Alamos Canyon	0.6940	0.0600	Y
0.30	0.4820	0.0440	Y
2.8	1.126	0.0910	Y
Sandia Canyon/3.2	0.3080	0.0300	Y
3.3	0.7330	0.0630	Y
Mortandad Canyon/4.2	0.1840	0.0200	Y
9.0	0.6860	0.0600	Y
Ancho Canyon/9.2	0.5590	0.0500	Y
RSRL	1.38	NA	NA
NE-ESL	300000	NA	NA
LE-ESL	3000000	NA	NA

References

"ECORISK Database," R4.2,

Table S7-37. Radionuclide (

Location/Mi from LAC	Uranium-235/236 pCi/g	Uranium 235/236 Report Uncertainty	Uranium235/236 Detected
4.4	0.0431	0.0078	Y
2.4	0.0507	0.0090	Y
2.0	0.0270	0.0062	Y
1.8	0.0281	0.0059	Y
1.4	0.0380	0.0073	Y
1.0	0.0322	0.0071	Y
NM 502/0.30	0.0271	0.0060	Y
Los Alamos Canyon	0.0460	0.0078	Y
0.30	0.0243	0.0055	Y
2.8	0.0675	0.0097	Y
Sandia Canyon/3.2	0.0149	0.0046	Y
3.3	0.0398	0.0082	Y
Mortandad Canyon/4.2	0.0200	0.0051	Y
9.0	0.0445	0.0076	Y
Ancho Canyon/9.2	0.0290	0.0061	Y
RSRL	0.128371998	NA	NA
NE-ESL	10000	NA	NA
LE-ESL	100000	NA	NA

References

"ECORISK Database," R4.2,

Table S7-37. Radionuclide (

Location/Mi from LAC	Uranium-238 pCi/g	Uranium-238 Report Uncertainty	Uranium-238 Detected
4.4	0.6640	0.0580	Y
2.4	0.6920	0.0620	Y
2.0	0.4550	0.0420	Y
1.8	0.5600	0.0500	Y
1.4	0.6690	0.0590	Y
1.0	0.7600	0.0660	Y
NM 502/0.30	0.5490	0.0490	Y
Los Alamos Canyon	0.7040	0.0610	Y
0.30	0.4310	0.0400	Y
2.8	1.15	0.0930	Y
Sandia Canyon/3.2	0.3070	0.0300	Y
3.3	0.6580	0.0580	Y
Mortandad Canyon/4.2	0.2200	0.0230	Y
9.0	0.6340	0.0560	Y
Ancho Canyon/9.2	0.5830	0.0520	Y
RSRL	1.32	NA	NA
NE-ESL	4300	NA	NA
LE-ESL	43000	NA	NA

References

"ECORISK Database," R4.2,

Table S7-38. Total analyte list concentrations (mg/kg) in sediment collected from the Rio Grande upstream and downstream of Los Alamo

Location/Mi from LAC	Stream Location	Aluminum (mg/kg)	Aluminum Detected	Antimony (mg/kg)
4.4	Upstream	1400	Y	0.03
2.4	Upstream	3300	Y	0.05
2.0	Upstream	1800	Y	0.04
1.8	Upstream	1300	Y	0.03
1.4	Upstream	560	Y	0.03
1.0	Upstream	3300	Y	0.06
NM 502/0.30	Upstream	1500	Y	0.04
Los Alamos Canyon	Downstream	2700	Y	0.07
0.30	Downstream	1400	Y	0.04
2.8	Downstream	7400	Y	0.10
Sandia Canyon/3.2	Downstream	1200	Y	0.02
3.3	Downstream	910	Y	0.09
Mortandad Canyon/4.2	Downstream	1400	Y	0.03
9.0	Downstream	4700	Y	0.07
Ancho Canyon/9.2	Downstream	1100	Y	0.02
RSRL	NA	11929	NA	0.754
NE-ESL	NA	25000	NA	NA
LE-ESL	NA	58000	NA	NA

References

"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62152, acc

Table S7-38. Total analyte lists Canyon (LAC) in 2020.

Location/Mi from LAC	Antimony Detected	Arsenic (mg/kg)	Arsenic Detected	Barium (mg/kg)	Barium Detected
4.4	Y	0.7	Y	52	Y
2.4	Y	1.2	Y	96	Y
2.0	Y	0.9	Y	56	Y
1.8	Y	0.7	Y	49	Y
1.4	N	0.3	Y	29	Y
1.0	Y	1.4	Y	100	Y
NM 502/0.30	Y	0.7	Y	54	Y
Los Alamos Canyon	Y	1.3	Y	110	Y
0.30	Y	0.8	Y	58	Y
2.8	N	2.5	Y	230	Y
Sandia Canyon/3.2	N	1.1	Y	26	Y
3.3	N	2.0	Y	34	Y
Mortandad Canyon/4.2	Y	0.7	Y	44	Y
9.0	Y	1.6	Y	**170**	Y
Ancho Canyon/9.2	N	0.4	Y	46	Y
RSRL	NA	3.81	NA	293	NA
NE-ESL	NA	9.7	NA	150	NA
LE-ESL	NA	33	NA	300	NA

References

"ECORISK Database," R4.2, hessed Feb 2021

Table S7-38. Total analyte list

Location/Mi from LAC	Beryllium (mg/kg)	Beryllium Detected	Cadmium (mg/kg)	Cadmium Detected	Calcium (mg/kg)
4.4	0.508	Y	0.03	N	5500
2.4	0.320	Y	0.04	Y	10000
2.0	0.227	Y	0.03	N	6700
1.8	0.242	Y	0.03	N	4900
1.4	**0.896**	Y	0.03	N	1900
1.0	0.437	Y	0.06	Y	9400
NM 502/0.30	0.478	Y	0.03	N	5500
Los Alamos Canyon	0.240	Y	0.04	Y	12000
0.30	0.140	Y	0.03	N	6200
2.8	0.640	Y	0.09	Y	23000
Sandia Canyon/3.2	0.140	Y	0.03	N	2900
3.3	0.130	Y	0.03	N	3300
Mortandad Canyon/4.2	0.120	Y	0.03	N	4800
9.0	0.350	Y	0.07	Y	14000
Ancho Canyon/9.2	0.073	N	0.03	N	2700
RSRL	0.849	NA	0.229	NA	29591
NE-ESL	NA	NA	0.99	NA	NA
LE-ESL	NA	NA	4.9	NA	NA

References

"ECORISK Database," R4.2, h

Table S7-38. Total analyte list

Location/Mi from LAC	Calcium Detected	Chromium (mg/kg)	Chromium Detected	Cobalt (mg/kg)	Cobalt Detected
4.4	Y	1.9	Y	1.1	Y
2.4	Y	4.0	Y	2.3	Y
2.0	Y	2.2	Y	1.3	Y
1.8	Y	1.6	Y	0.9	Y
1.4	Y	0.7	Y	0.4	Y
1.0	Y	4.4	Y	2.4	Y
NM 502/0.30	Y	2.0	Y	1.1	Y
Los Alamos Canyon	Y	4.2	Y	2.2	Y
0.30	Y	2.2	Y	1.1	Y
2.8	Y	9.1	Y	4.8	Y
Sandia Canyon/3.2	Y	1.9	Y	1.1	Y
3.3	Y	12.0	Y	3.3	Y
Mortandad Canyon/4.2	Y	1.7	Y	1.0	Y
9.0	Y	5.5	Y	3.0	Y
Ancho Canyon/9.2	Y	1.2	Y	0.5	Y
RSRL	NA	15.4	NA	7.13	NA
NE-ESL	NA	43	NA	NA	NA
LE-ESL	NA	110	NA	NA	NA

References

"ECORISK Database," R4.2, h

Table S7-38. Total analyte list

Location/Mi from LAC	Copper (mg/kg)	Copper Detected	Iron (mg/kg)	Iron Detected	Lead (mg/kg)	Lead Detected
4.4	2.2	Y	2400	Y	1.9	Y
2.4	3.6	Y	5000	Y	3.2	Y
2.0	2.7	Y	3100	Y	1.8	Y
1.8	1.7	Y	2000	Y	1.5	Y
1.4	0.7	Y	740	Y	0.65	Y
1.0	4.9	Y	5200	Y	4.2	Y
NM 502/0.30	2.0	Y	2300	Y	2.0	Y
Los Alamos Canyon	3.2	Y	5400	Y	3.2	Y
0.30	1.8	Y	2600	Y	2.0	Y
2.8	7.9	Y	13000	Y	7.1	Y
Sandia Canyon/3.2	2.7	Y	4200	Y	2.7	N
3.3	1.5	Y	**20000**	Y	3.3	N
Mortandad Canyon/4.2	1.9	Y	2100	Y	1.5	Y
9.0	5.2	Y	7000	Y	4.2	Y
Ancho Canyon/9.2	1.2	Y	1400	Y	0.92	Y
RSRL	11.9	NA	18621	NA	8.43	NA
NE-ESL	31	NA	20000	NA	35	NA
LE-ESL	140	NA	40000	NA	120	NA

References

"ECORISK Database," R4.2, h

Table S7-38. Total analyte list

Location/Mi from LAC	Magnesium (mg/kg)	Magnesium Detected	Manganese (mg/kg)	Manganese Detected
4.4	850	Y	96	Y
2.4	1700	Y	130	Y
2.0	950	Y	120	Y
1.8	750	Y	83	Y
1.4	310	Y	31	Y
1.0	1800	Y	160	Y
NM 502/0.30	840	Y	90	Y
Los Alamos Canyon	1500	Y	140	Y
0.30	800	Y	120	Y
2.8	3900	Y	290	Y
Sandia Canyon/3.2	830	Y	54	Y
3.3	680	Y	110	Y
Mortandad Canyon/4.2	730	Y	87	Y
9.0	2400	Y	200	Y
Ancho Canyon/9.2	540	Y	57	Y
RSRL	6003	NA	401	NA
NE-ESL	NA	NA	460	NA
LE-ESL	NA	NA	1100	NA

References

"ECORISK Database," R4.2, h

Table S7-38. Total analyte list

Location/Mi from LAC	Mercury (mg/kg)	Mercury Detected	Nickel (mg/kg)	Nickel Detected	Potassium (mg/kg)
4.4	0.0036	Y	2.6	Y	470
2.4	0.0001	N	4.2	Y	1200
2.0	0.0001	N	2.4	Y	680
1.8	0.0120	N	2.1	Y	440
1.4	0.0110	N	1.0	Y	190
1.0	0.0140	N	4.6	Y	1000
NM 502/0.30	0.0027	Y	2.4	Y	530
Los Alamos Canyon	0.0003	Y	4.1	Y	930
0.30	0.0003	Y	2.3	Y	480
2.8	0.0098	Y	10.0	Y	2400
Sandia Canyon/3.2	0.0001	N	2.2	Y	290
3.3	0.0001	N	5.1	Y	290
Mortandad Canyon/4.2	0.0001	N	1.9	Y	480
9.0	0.0036	Y	5.7	Y	1500
Ancho Canyon/9.2	0.0001	N	1.3	Y	370
RSRL	0.0164	NA	15.0	NA	3117
NE-ESL	0.18	NA	22	NA	NA
LE-ESL	1	NA	48	NA	NA

References

"ECORISK Database," R4.2, h

Table S7-38. Total analyte list

Location/Mi from LAC	Potassium Detected	Selenium (mg/kg)	Selenium Detected	Silver (mg/kg)	Silver Detected
4.4	Y	0.26	N	0.011	N
2.4	Y	0.35	Y	0.011	N
2.0	Y	0.26	N	0.011	N
1.8	Y	0.28	N	0.012	N
1.4	Y	0.28	N	0.012	N
1.0	Y	0.44	Y	0.013	N
NM 502/0.30	Y	0.24	N	0.010	N
Los Alamos Canyon	Y	0.44	Y	0.011	N
0.30	Y	0.25	N	0.010	N
2.8	Y	**0.97**	Y	0.013	N
Sandia Canyon/3.2	Y	0.36	Y	0.010	N
3.3	Y	0.47	Y	0.009	N
Mortandad Canyon/4.2	Y	0.26	N	0.011	N
9.0	Y	0.49	Y	0.012	N
Ancho Canyon/9.2	Y	0.26	N	0.011	N
RSRL	NA	1.78	NA	0.249	NA
NE-ESL	NA	0.72	NA	0.5	NA
LE-ESL	NA	2.9	NA	5	NA

References

"ECORISK Database," R4.2, h

Table S7-38. Total analyte list

Location/Mi from LAC	Sodium (mg/kg)	Sodium Detected	Thallium (mg/kg)	Thallium Detected	Vanadium (mg/kg)
4.4	100	Y	0.026	Y	4.9
2.4	120	Y	0.048	Y	9.9
2.0	89	Y	0.032	Y	6.4
1.8	100	Y	0.079	Y	4.1
1.4	66	Y	0.082	Y	1.6
1.0	130	Y	0.061	Y	11.0
NM 502/0.30	140	Y	0.031	Y	4.9
Los Alamos Canyon	120	Y	0.046	Y	11.0
0.30	84	Y	0.032	Y	5.7
2.8	230	Y	0.120	Y	22.0
Sandia Canyon/3.2	61	Y	0.020	Y	8.3
3.3	47	Y	0.019	Y	40.0
Mortandad Canyon/4.2	74	Y	0.026	Y	4.0
9.0	160	Y	0.064	Y	13.0
Ancho Canyon/9.2	60	Y	0.017	Y	2.7
RSRL	338	NA	0.303	NA	38.5
NE-ESL	NA	NA	NA	NA	NA
LE-ESL	NA	NA	NA	NA	NA

References

"ECORISK Database," R4.2, h

Table S7-38. Total analyte list

Location/Mi from LAC	Vanadium Detected	Zinc (mg/kg)	Zinc Detected
4.4	Y	6.2	Y
2.4	Y	12.0	Y
2.0	Y	7.3	Y
1.8	Y	5.3	Y
1.4	Y	1.9	Y
1.0	Y	15.0	Y
NM 502/0.30	Y	6.9	Y
Los Alamos Canyon	Y	13.0	Y
0.30	Y	6.3	Y
2.8	Y	27.0	Y
Sandia Canyon/3.2	Y	8.1	Y
3.3	Y	15.0	Y
Mortandad Canyon/4.2	Y	5.8	Y
9.0	Y	17.0	Y
Ancho Canyon/9.2	Y	3.8	Y
RSRL	NA	35.9	NA
NE-ESL	NA	120	NA
LE-ESL	NA	450	NA

References

"ECORISK Database," R4.2, h

Table S7-39. Polychlorinated biphenyl congener concentrations (pg/g) in sediment collected in the Rio Grande upstream and downstream

Miles from LAC	Location	Total PCBs pg/g	Total PCBs Detected
4.4	Upstream	0.00	N
2.4	Upstream	0.00	N
2.0	Upstream	0.00	N
1.8	Upstream	0.00	N
1.4	Upstream	**112**	Y
1.0	Upstream	0.00	N
NM 502/0.30	Upstream	0.00	N
Los Alamos Canyon	Downstream	0.00	N
0.30	Downstream	0.00	N
2.8	Downstream	23.4	Y
Sandia Canyon/3.2	Downstream	0.00	N
3.3	Downstream	0.00	N
Mortandad Canyon/4.2	Downstream	0.00	N
9.0	Downstream	0.00	N
Ancho Canyon/9.2	Downstream	25.8	Y
RSRL	NA	86.1	NA
NE-ESL	NA	59000	NA
LE-ESL	NA	590000	NA

References

"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62152, accessed Fe

Table S7-39. Polychlorinof Los Alamos Canyon (LAC) in 2020.

Miles from LAC
4.4
2.4
2.0
1.8
1.4
1.0
NM 502/0.30
Los Alamos Canyon
0.30
2.8
Sandia Canyon/3.2
3.3
Mortandad Canyon/4.2
9.0
Ancho Canyon/9.2
RSRL
NE-ESL
LE-ESL

References

"ECORISK Database," R4b 2021

Table S7-40. Radionuclide concentrations in sediment collected from Abiquiu reservoir (upstream) and Cochiti reservoir (

Sample ID	Reservoir	Sampling Depth (ft)	Tritium pCi/mL	Tritium Report Uncertainty
SFB-20-205839	Abiquiu (upstream)	60.7	-0.0360	0.0450
SFB-20-205840	Abiquiu (upstream)	56	-0.0670	0.0500
SFB-20-205841	Abiquiu (upstream)	12.5	0.1890	0.0710
SFB-20-205842	Abiquiu (upstream)	60.7	-0.0380	0.0550
SFB-20-205843	Abiquiu (upstream)	24	-0.0300	0.0600
SFB-20-205844	Abiquiu (upstream)	Not recorded	-0.0500	0.0620
SFB-20-205859	Cochiti (downstream)	10	-0.0210	0.0094
SFB-20-205860	Cochiti (downstream)	67	-0.1100	0.1100
SFB-20-205861	Cochiti (downstream)	2.63	0.0218	0.0083
SFB-20-205862	Cochiti (downstream)	73	-0.1000	0.0510
SFB-20-205863	Cochiti (downstream)	2.3	0.0224	0.0060
SFB-20-205864	Cochiti (downstream)	76	-0.1200	0.0800
RSRL	NA	NA	0.2810	NA
NE-ESL	NA	NA	660000	NA
LE-ESL	NA	NA	6600000	NA

References

"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62

Table S7-40. Radion(downstream) of Los Alamos Canyon (LAC) during 2020.

Sample ID	Tritium Detected	Americium-241 pCi/g	Americium-241 Report Uncertainty
SFB-20-205839	N	-0.0007	0.0053
SFB-20-205840	N	0.0056	0.0071
SFB-20-205841	N	0.0052	0.0069
SFB-20-205842	N	-0.0037	0.0049
SFB-20-205843	N	0.0003	0.0048
SFB-20-205844	N	0.0068	0.0063
SFB-20-205859	N	-0.0019	0.0041
SFB-20-205860	N	-0.0004	0.0052
SFB-20-205861	N	-0.0006	0.0051
SFB-20-205862	N	0.0023	0.0063
SFB-20-205863	Y	-0.0048	0.0039
SFB-20-205864	N	0.0021	0.0069
RSRL	NA	0.0130	NA
NE-ESL	NA	66000	NA
LE-ESL	NA	660000	NA

References

"ECORISK Database,152, accessed Feb 2021

Table S7-40. Radion

Sample ID	Americium-241 Detected	Cesium-137 pCi/g	Cesium-137 Report Uncertainty	Cesium-137 Detected
SFB-20-205839	N	0.1640	0.0550	Y
SFB-20-205840	N	0.1610	0.0570	N
SFB-20-205841	N	0.1860	0.0520	Y
SFB-20-205842	N	0.0550	0.0670	N
SFB-20-205843	N	0.2040	0.0760	N
SFB-20-205844	N	0.1290	0.0400	Y
SFB-20-205859	N	0.0610	0.0300	N
SFB-20-205860	N	0.1040	0.0670	N
SFB-20-205861	N	-0.0490	0.0310	N
SFB-20-205862	N	0.3120	0.0680	Y
SFB-20-205863	N	-0.0720	0.0360	N
SFB-20-205864	N	0.1410	0.0620	N
RSRL	NA	0.3418	NA	NA
NE-ESL	NA	5000	NA	NA
LE-ESL	NA	50000	NA	NA

References

"ECORISK Database,

Table S7-40. Radion

Sample ID	Plutonium-238 pCi/g	Plutonium-238 Report Uncertainty	Plutonium-238 Detected
SFB-20-205839	0.0076	0.0047	N
SFB-20-205840	0.0082	0.0041	Y
SFB-20-205841	0.0050	0.0041	Y
SFB-20-205842	0.0100	0.0039	Y
SFB-20-205843	0.0100	0.0048	N
SFB-20-205844	0.0044	0.0054	N
SFB-20-205859	0.0079	0.0049	N
SFB-20-205860	0.0120	0.0057	N
SFB-20-205861	0.0074	0.0037	Y
SFB-20-205862	0.0142	0.0068	N
SFB-20-205863	0.0132	0.0045	Y
SFB-20-205864	0.0060	0.0049	N
RSRL	0.0151	NA	NA
NE-ESL	400000	NA	NA
LE-ESL	4000000	NA	NA

References

"ECORISK Database,

Table S7-40. Radion

Sample ID	Plutonium-239/240 pCi/g	Plutonium-239/240 Report Uncertainty	Plutonium-239/240 Detected
SFB-20-205839	0.0076	0.0054	N
SFB-20-205840	0.0180	0.0056	Y
SFB-20-205841	0.0133	0.0048	Y
SFB-20-205842	0.0129	0.0053	N
SFB-20-205843	0.0000	0.0041	N
SFB-20-205844	0.0087	0.0076	N
SFB-20-205859	0.0099	0.0053	N
SFB-20-205860	0.0199	0.0071	Y
SFB-20-205861	0.0015	0.0036	N
SFB-20-205862	**0.0370**	0.0100	Y
SFB-20-205863	0.0044	0.0036	N
SFB-20-205864	0.0239	0.0082	Y
RSRL	0.0240	NA	NA
NE-ESL	710000	NA	NA
LE-ESL	7100000	NA	NA

References

"ECORISK Database,

Table S7-40. Radion

Sample ID	Radium-226 pCi/g	Radium-226 Report Uncertainty	Radium-226 Detected	Radium-228 pCi/g
SFB-20-205839	1.08	0.1800	Y	1.25
SFB-20-205840	0.9800	0.1500	Y	1.63
SFB-20-205841	0.6900	0.1200	Y	1.70
SFB-20-205842	1.04	0.1600	Y	1.75
SFB-20-205843	1.11	0.1600	Y	1.77
SFB-20-205844	1.13	0.1700	Y	1.91
SFB-20-205859	0.3270	0.0940	Y	0.8200
SFB-20-205860	1.12	0.1800	Y	1.36
SFB-20-205861	0.6900	0.1300	Y	0.3500
SFB-20-205862	0.8300	0.1400	Y	1.72
SFB-20-205863	0.167	0.0670	N	0.7500
SFB-20-205864	0.8800	0.1400	Y	1.99
RSRL	1.494	NA	NA	2.343
NE-ESL	1400	NA	NA	2800
LE-ESL	14000	NA	NA	28000

References

"ECORISK Database,

Table S7-40. Radion

Sample ID	Radium-228 Report Uncertainty	Radium-228 Detected	Strontium-90 pCi/g
SFB-20-205839	0.2400	Y	0.0180
SFB-20-205840	0.2600	Y	0.0430
SFB-20-205841	0.2700	Y	0.0470
SFB-20-205842	0.2800	Y	0.0800
SFB-20-205843	0.2900	Y	0.0460
SFB-20-205844	0.3000	Y	-0.1200
SFB-20-205859	0.2000	Y	-0.0490
SFB-20-205860	0.2500	Y	0.0070
SFB-20-205861	0.1700	N	0.0610
SFB-20-205862	0.2900	Y	0.0530
SFB-20-205863	0.2000	Y	-0.0080
SFB-20-205864	0.3200	Y	0.0290
RSRL	NA	NA	0.3014
NE-ESL	NA	NA	3400
LE-ESL	NA	NA	34000

References

"ECORISK Database,

Table S7-40. Radion

Sample ID	Strontium-90 Report Uncertainty	Strontium-90 Detected	Uranium-234 pCi/g
SFB-20-205839	0.0430	N	0.8920
SFB-20-205840	0.0400	N	1.103
SFB-20-205841	0.0420	N	0.9360
SFB-20-205842	0.0430	N	1.065
SFB-20-205843	0.0400	N	1.073
SFB-20-205844	0.0430	N	1.054
SFB-20-205859	0.0330	N	0.7100
SFB-20-205860	0.0300	N	**1.29**
SFB-20-205861	0.0320	N	0.5370
SFB-20-205862	0.0280	N	1.23
SFB-20-205863	0.0310	N	0.5710
SFB-20-205864	0.0310	N	1.181
RSRL	NA	NA	1.281
NE-ESL	NA	NA	300000
LE-ESL	NA	NA	3000000

References

"ECORISK Database,

Table S7-40. Radion

Sample ID	Uranium-234 Report Uncertainty	Uranium-234 Detected	Uranium-235/236 pCi/g
SFB-20-205839	0.0730	Y	0.0525
SFB-20-205840	0.0930	Y	0.0750
SFB-20-205841	0.0780	Y	0.0511
SFB-20-205842	0.0880	Y	0.0640
SFB-20-205843	0.0880	Y	0.0633
SFB-20-205844	0.0880	Y	0.0610
SFB-20-205859	0.0600	Y	0.0456
SFB-20-205860	0.1100	Y	0.0595
SFB-20-205861	0.0470	Y	0.0338
SFB-20-205862	0.1000	Y	0.0546
SFB-20-205863	0.0500	Y	0.0241
SFB-20-205864	0.0960	Y	0.0720
RSRL	NA	NA	0.0948
NE-ESL	NA	NA	10000
LE-ESL	NA	NA	100000

References

"ECORISK Database,

Table S7-40. Radion

Sample ID	Uranium 235/236 Report Uncertainty	Uranium235/236 Detected	Uranium-238 pCi/g
SFB-20-205839	0.0081	Y	0.9070
SFB-20-205840	0.0120	Y	1.24
SFB-20-205841	0.0088	Y	0.9540
SFB-20-205842	0.0100	Y	1.211
SFB-20-205843	0.0096	Y	1.151
SFB-20-205844	0.0100	Y	1.250
SFB-20-205859	0.0078	Y	0.6610
SFB-20-205860	0.0092	Y	1.36
SFB-20-205861	0.0068	Y	0.5360
SFB-20-205862	0.0084	Y	1.29
SFB-20-205863	0.0057	Y	0.5850
SFB-20-205864	0.0100	Y	1.26
RSRL	NA	NA	1.452
NE-ESL	NA	NA	4300
LE-ESL	NA	NA	43000

References

"ECORISK Database,

Table S7-40. Radion

Sample ID	Uranium-238 Report Uncertainty	Uranium-238 Detected
SFB-20-205839	0.0740	Y
SFB-20-205840	0.1000	Y
SFB-20-205841	0.0790	Y
SFB-20-205842	0.0990	Y
SFB-20-205843	0.0940	Y
SFB-20-205844	0.1000	Y
SFB-20-205859	0.0560	Y
SFB-20-205860	0.1100	Y
SFB-20-205861	0.0470	Y
SFB-20-205862	0.1000	Y
SFB-20-205863	0.0520	Y
SFB-20-205864	0.1000	Y
RSRL	NA	NA
NE-ESL	NA	NA
LE-ESL	NA	NA

References

"ECORISK Database,

Table S7-41. Total analyte list concentrations in sediment samples collected from Abiquiu (upstream) and Cochiti (downstream) of Los Alamo

Sample ID	Reservoir	Aluminum (mg/kg)	Aluminum Detected	Antimony (mg/kg)	Antimony Detected
SFB-20-205839	Abiquiu (upstream)	5400	Y	0.093	Y
SFB-20-205840	Abiquiu (upstream)	3900	Y	0.086	Y
SFB-20-205841	Abiquiu (upstream)	4300	Y	0.091	Y
SFB-20-205842	Abiquiu (upstream)	5900	Y	0.096	Y
SFB-20-205843	Abiquiu (upstream)	3900	Y	0.096	Y
SFB-20-205844	Abiquiu (upstream)	2600	Y	0.062	Y
SFB-20-205859	Cochiti (downstream)	3800	Y	0.070	N
SFB-20-205860	Cochiti (downstream)	19000	Y	0.130	N
SFB-20-205861	Cochiti (downstream)	1000	Y	0.036	N
SFB-20-205862	Cochiti (downstream)	14000	Y	0.130	N
SFB-20-205863	Cochiti (downstream)	1700	Y	0.032	N
SFB-20-205864	Cochiti (downstream)	17000	Y	0.110	N
RSRL	NA	19340	NA	0.566	NA
NE-ESL	NA	25000	NA	NA	NA
LE-ESL	NA	58000	NA	NA	NA

References

"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62152, accessed Feb 20

Table S7-41. Total anais Canyon during 2020.

Sample ID	Arsenic (mg/kg)	Arsenic Detected	Barium (mg/kg)	Barium Detected	Beryllium (mg/kg)
SFB-20-205839	2.5	Y	120	Y	0.50
SFB-20-205840	2.3	Y	58	Y	0.34
SFB-20-205841	2.1	Y	84	Y	0.38
SFB-20-205842	3.2	Y	92	Y	0.51
SFB-20-205843	2.2	Y	89	Y	0.34
SFB-20-205844	1.7	Y	38	Y	0.23
SFB-20-205859	2.30	Y	55	Y	0.32
SFB-20-205860	6.80	Y	290	Y	**1.70**
SFB-20-205861	0.95	Y	11	Y	0.11
SFB-20-205862	5.90	Y	230	Y	1.30
SFB-20-205863	1.30	Y	29	Y	0.15
SFB-20-205864	6.60	Y	230	Y	1.60
RSRL	10.43	NA	359	NA	1.63
NE-ESL	9.7	NA	150	NA	NA
LE-ESL	33	NA	300	NA	NA

References

"ECORISK Database,")21

Table S7-41. Total anal

Sample ID	Beryllium Detected	Cadmium (mg/kg)	Cadmium Detected	Calcium (mg/kg)	Calcium Detected
SFB-20-205839	Y	0.140	Y	9500	Y
SFB-20-205840	Y	0.095	Y	7000	Y
SFB-20-205841	Y	0.097	Y	6000	Y
SFB-20-205842	Y	0.130	Y	8300	Y
SFB-20-205843	Y	0.110	Y	5700	Y
SFB-20-205844	Y	0.056	Y	4000	Y
SFB-20-205859	Y	0.095	Y	3300	Y
SFB-20-205860	Y	0.330	Y	31000	Y
SFB-20-205861	Y	0.025	N	1600	Y
SFB-20-205862	Y	0.320	Y	22000	Y
SFB-20-205863	Y	0.023	N	1700	Y
SFB-20-205864	Y	0.330	Y	21000	Y
RSRL	NA	0.470	NA	43004	NA
NE-ESL	NA	0.99	NA	NA	NA
LE-ESL	NA	4.9	NA	NA	NA

References

"ECORISK Database," l

Table S7-41. Total ana

Sample ID	Chromium (mg/kg)	Chromium Detected	Cobalt (mg/kg)	Cobalt Detected	Copper (mg/kg)
SFB-20-205839	6.7	Y	4.5	Y	9.2
SFB-20-205840	4.0	Y	2.5	Y	5.9
SFB-20-205841	4.9	Y	3.1	Y	7.0
SFB-20-205842	6.2	Y	4.0	Y	8.6
SFB-20-205843	4.3	Y	2.9	Y	6.5
SFB-20-205844	2.7	Y	1.6	Y	3.7
SFB-20-205859	8.9	Y	5.2	Y	3.9
SFB-20-205860	18.0	Y	10.0	Y	24.0
SFB-20-205861	2.9	Y	1.3	Y	2.2
SFB-20-205862	14.0	Y	8.4	Y	19.0
SFB-20-205863	3.0	Y	2.3	Y	3.9
SFB-20-205864	16.0	Y	9.5	Y	21.0
RSRL	23.0	NA	14.3	NA	29.7
NE-ESL	43	NA	NA	NA	31
LE-ESL	110	NA	NA	NA	140

References

"ECORISK Database," l

Table S7-41. Total anal

Sample ID	Copper Detected	Iron (mg/kg)	Iron Detected	Lead (mg/kg)	Lead Detected	Magnesium (mg/kg)
SFB-20-205839	Y	10000	Y	7.7	Y	2600
SFB-20-205840	Y	6500	Y	4.7	Y	1700
SFB-20-205841	Y	7200	Y	5.8	Y	1900
SFB-20-205842	Y	9800	Y	7.1	Y	2400
SFB-20-205843	Y	6400	Y	5.4	Y	1700
SFB-20-205844	Y	4200	Y	3.1	Y	1000
SFB-20-205859	Y	12000	Y	5.0	Y	1800
SFB-20-205860	Y	**26000**	Y	21.0	Y	8200
SFB-20-205861	Y	4400	Y	1.8	N	690
SFB-20-205862	Y	20000	Y	18.0	Y	5800
SFB-20-205863	Y	6400	Y	3.8	N	510
SFB-20-205864	Y	**24000**	Y	21.0	Y	6900
RSRL	NA	38332	NA	27.1	NA	8876
NE-ESL	NA	20000	NA	35	NA	NA
LE-ESL	NA	40000	NA	120	NA	NA

References

"ECORISK Database," l

Table S7-41. Total anal

Sample ID	Magnesium Detected	Manganese (mg/kg)	Manganese Detected	Mercury (mg/kg)	Mercury Detected
SFB-20-205839	Y	240	Y	0.035	Y
SFB-20-205840	Y	160	Y	0.038	Y
SFB-20-205841	Y	170	Y	0.039	Y
SFB-20-205842	Y	230	Y	0.040	Y
SFB-20-205843	Y	170	Y	0.045	Y
SFB-20-205844	Y	110	Y	0.039	Y
SFB-20-205859	Y	130	Y	0.008	Y
SFB-20-205860	Y	**890**	Y	0.031	Y
SFB-20-205861	Y	50	Y	0.000	N
SFB-20-205862	Y	**730**	Y	0.033	Y
SFB-20-205863	Y	100	Y	0.000	N
SFB-20-205864	Y	**990**	Y	0.027	Y
RSRL	NA	767	NA	0.057	NA
NE-ESL	NA	460	NA	0.18	NA
LE-ESL	NA	1100	NA	1	NA

References

"ECORISK Database," l

Table S7-41. Total anal

Sample ID	Nickel (mg/kg)	Nickel Detected	Potassium (mg/kg)	Potassium Detected	Selenium (mg/kg)
SFB-20-205839	11.0	Y	1500	Y	0.83
SFB-20-205840	6.3	Y	1100	Y	0.53
SFB-20-205841	7.4	Y	1200	Y	0.66
SFB-20-205842	9.7	Y	1600	Y	0.74
SFB-20-205843	6.8	Y	1100	Y	0.57
SFB-20-205844	4.1	Y	730	Y	0.41
SFB-20-205859	7.1	Y	1100	Y	0.65
SFB-20-205860	21.0	Y	4900	Y	2.00
SFB-20-205861	3.0	Y	220	Y	0.40
SFB-20-205862	16.0	Y	3500	Y	1.70
SFB-20-205863	3.3	Y	190	Y	0.6
SFB-20-205864	19.0	Y	4000	Y	1.80
RSRL	32.3	NA	4273	NA	2.65
NE-ESL	22	NA	NA	NA	0.72
LE-ESL	48	NA	NA	NA	2.9

References

"ECORISK Database," l

Table S7-41. Total anal

Sample ID	Selenium Detected	Silver (mg/kg)	Silver Detected	Sodium (mg/kg)	Sodium Detected	Thallium (mg/kg)
SFB-20-205839	Y	0.038	Y	110	Y	0.120
SFB-20-205840	Y	0.023	Y	89	Y	0.094
SFB-20-205841	Y	0.035	Y	100	Y	0.089
SFB-20-205842	Y	0.037	Y	120	Y	0.150
SFB-20-205843	Y	0.031	Y	91	Y	0.140
SFB-20-205844	N	0.017	N	78	Y	0.110
SFB-20-205859	Y	0.017	Y	100	Y	0.150
SFB-20-205860	Y	0.078	Y	350	Y	0.350
SFB-20-205861	Y	0.009	N	51	Y	0.053
SFB-20-205862	Y	0.072	Y	270	Y	0.200
SFB-20-205863	Y	0.009	N	65	Y	0.012
SFB-20-205864	Y	0.089	Y	310	Y	0.230
RSRL	NA	0.162	NA	463	NA	0.565
NE-ESL	NA	0.5	NA	NA	NA	NA
LE-ESL	NA	5	NA	NA	NA	NA

References

"ECORISK Database," l

Table S7-41. Total anal

Sample ID	Thallium Detected	Vanadium (mg/kg)	Vanadium Detected	Zinc (mg/kg)	Zinc Detected
SFB-20-205839	Y	16.0	Y	29.0	Y
SFB-20-205840	Y	9.7	Y	19.0	Y
SFB-20-205841	Y	11.0	Y	20.0	Y
SFB-20-205842	Y	15.0	Y	28.0	Y
SFB-20-205843	Y	10.0	Y	17.0	Y
SFB-20-205844	Y	6.5	Y	12.0	Y
SFB-20-205859	Y	25.0	Y	26.0	Y
SFB-20-205860	Y	38.0	Y	81.0	Y
SFB-20-205861	Y	7.7	Y	9.2	Y
SFB-20-205862	Y	30.0	Y	65.0	Y
SFB-20-205863	Y	11.0	Y	13.0	Y
SFB-20-205864	Y	34.0	Y	76.0	Y
RSRL	NA	54.6	NA	82.5	NA
NE-ESL	NA	NA	NA	120	NA
LE-ESL	NA	NA	NA	450	NA

References

"ECORISK Database," l

Table S7-42. Polychlorinated biphenyl congener concentrations (pg/g) in sediment collected from Abiquiu (upstream) and Cochiti (downstream)

Upstream	Reservoir	Sampling Depth (ft)	Total PCBs pg/g	Total PCBs Detected
SFB-20-205839	Abiquiu (upstream)	60.7	4.37	Y
SFB-20-205840	Abiquiu (upstream)	56	8.07	Y
SFB-20-205841	Abiquiu (upstream)	12.5	26.9	Y
SFB-20-205842	Abiquiu (upstream)	60.7	35.6	Y
SFB-20-205843	Abiquiu (upstream)	24	28.6	Y
SFB-20-205844	Abiquiu (upstream)	Not recorded	10.4	Y
SFB-20-205859	Cochiti (downstream)	10	5.61	Y
SFB-20-205860	Cochiti (downstream)	67	0.00	N
SFB-20-205861	Cochiti (downstream)	2.63	0.00	N
SFB-20-205862	Cochiti (downstream)	73	**87.3**	Y
SFB-20-205863	Cochiti (downstream)	2.3	1.73	Y
SFB-20-205864	Cochiti (downstream)	76	0.00	N
RSRL	NA	NA	50.8	NA
NE-ESL	NA	NA	59000	NA
LE-ESL	NA	NA	590000	NA

References

"ECORISK Database," R4.2, https://www.intellusnm.com/documents/document-library.cfc?method=retrieveLanlFile&nodeId=62152, accessed Feb 2021

Table S7-42. Polychlorin reservoirs) in 2020.

Upstream
SFB-20-205839
SFB-20-205840
SFB-20-205841
SFB-20-205842
SFB-20-205843
SFB-20-205844
SFB-20-205859
SFB-20-205860
SFB-20-205861
SFB-20-205862
SFB-20-205863
SFB-20-205864
RSRL
NE-ESL
LE-ESL

References

"ECORISK Database," R4

Table S7-43. Mean survival and growth of *Chironomus dilutus* and *Hyalella azteca* over a 10-day period in Rio Grande sediment (0-

Location/mi from LAC	Rio Grande Location	*Chironomus dilutu* s % Survival
4.5 miles upstream of Otowi bridge	Upstream	86.2
2.4 miles upstream of Otowi bridge	Upstream	88.8
2 miles upstream of Otowi bridge	Upstream	92.5
1.8 miles upstream of Otowi bridge	Upstream	87.5
1.4 miles upstream of Otowi bridge	Upstream	91.3
1 mile upstream of Otowi bridge	Upstream	91.3
0.3 miles upstream of Otowi bridge	Upstream	88.8
Los Alamos Canyon	Downstream	92.5
0.3 miles downstream of Otowi bridge	Downstream	96.2
2.8 downstream of Otowi bridge	Downstream	88.8
3.2 downstream of Otowi bridge (Sandia Canyon)	Downstream	85.0
3.3 downstream of Otowi bridge	Downstream	92.5
4.2 downstream of Otowi bridge (Mortandad Canyon)	Downstream	91.3
9 downstream of Otowi bridge	Downstream	73.8
9.2 downstream of Otowi bridge (Ancho Canyon)	Downstream	90.00
Upstream Average	NA	89.5
Downstream Average	NA	88.8
P value	NA	0.795

Table S7-43. Mean survival and growth of *Chironomus dilutus* anto 2-inch depth) collected upstream and downstr

Location/mi from LAC	*Chironomus dilutus* Growth (mg dry wt)
4.5 miles upstream of Otowi bridge	1.47
2.4 miles upstream of Otowi bridge	1.45
2 miles upstream of Otowi bridge	1.70
1.8 miles upstream of Otowi bridge	1.73
1.4 miles upstream of Otowi bridge	1.22
1 mile upstream of Otowi bridge	1.37
0.3 miles upstream of Otowi bridge	0.94
Los Alamos Canyon	1.30
0.3 miles downstream of Otowi bridge	1.31
2.8 downstream of Otowi bridge	0.97
3.2 downstream of Otowi bridge (Sandia Canyon)	0.81
3.3 downstream of Otowi bridge	1.10
4.2 downstream of Otowi bridge (Mortandad Canyon)	1.49
9 downstream of Otowi bridge	1.29
9.2 downstream of Otowi bridge (Ancho Canyon)	1.12
Upstream Average	1.41
Downstream Average	1.17
P value	0.084

Table S7-43. Mean survival and growth of *Chironomus dilutus* aneam of Los Alamos Canyon (LAC) in 2020.

Location/mi from LAC	Hyalella azteca % Survival	*Hyalella azteca* Growth (mg dry wt)
4.5 miles upstream of Otowi bridge	86.2	0.168
2.4 miles upstream of Otowi bridge	100	0.075
2 miles upstream of Otowi bridge	93.8	0.096
1.8 miles upstream of Otowi bridge	100	0.102
1.4 miles upstream of Otowi bridge	96.2	0.104
1 mile upstream of Otowi bridge	92.5	0.108
0.3 miles upstream of Otowi bridge	93.8	0.064
Los Alamos Canyon	93.8	0.110
0.3 miles downstream of Otowi bridge	96.2	0.086
2.8 downstream of Otowi bridge	93.8	0.090
3.2 downstream of Otowi bridge (Sandia Canyon)	91.3	0.067
3.3 downstream of Otowi bridge	95.0	0.076
4.2 downstream of Otowi bridge (Mortandad Canyon)	98.8	0.124
9 downstream of Otowi bridge	96.2	0.098
9.2 downstream of Otowi bridge (Ancho Canyon)	97.5	0.097
Upstream Average	94.6	0.102
Downstream Average	95.3	0.094
P value	0.726	0.522

Table S7-44. Mean survival and growth of *Chironomus dilutus* and *Hyalella azteca* over a 10-day period in reservoir sediment collec

Sample depth (ft)	Reservoir	*Chironomus dilutu* s % Survival	*Chironomus dilutus* Growth (mg dry wt)
12.5	Abiquiu	80.0	0.760
24	Abiquiu	92.5	0.709
56	Abiquiu	87.5	0.549
60.7	Abiquiu	92.5	0.634
60.7	Abiquiu	83.8	0.549
Not recorded	Abiquiu	77.5	0.568
2.6	Cochiti	86.3	1.150
10	Cochiti	95.0	1.010
67	Cochiti	83.8	0.785
73	Cochiti	91.2	0.795
76	Cochiti	93.8	0.711
Abiquiu Average	NA	85.6	0.63
Cochiti Average	NA	90.0	0.89
P value	NA	0.235	0.013

Table S7-44. Mean survival and growth of Cted from Abiquiu (upstream) and Cochiti (downstream) of Los Alamos Canyon (LAC) in 20

Sample depth (ft)	Reservoir	Hyalella azteca % Survival	*Hyalella azteca* Growth (mg dry wt)
12.5	Abiquiu	96.3	0.05
24	Abiquiu	87.5	0.069
56	Abiquiu	98.8	0.052
60.7	Abiquiu	95.0	0.072
60.7	Abiquiu	96.2	0.055
Not recorded	Abiquiu	97.5	0.071
2.6	Cochiti	90.0	0.074
10	Cochiti	86.2	0.094
67	Cochiti	85.0	0.082
73	Cochiti	92.5	0.079
76	Cochiti	86.3	0.082
Abiquiu Average	NA	95.2	0.062
Cochiti Average	NA	88.0	0.082
P value	NA	0.010	0.004

Table S7-44. Mean survival and growth of Ó20.

Sample depth (ft)	Reservoir
12.5	Abiquiu
24	Abiquiu
56	Abiquiu
60.7	Abiquiu
60.7	Abiquiu
Not recorded	Abiquiu
2.6	Cochiti
10	Cochiti
67	Cochiti
73	Cochiti
76	Cochiti
Abiquiu Average	NA
Cochiti Average	NA
P value	NA

Table S7-45. Benthic macroinvertebrate metrics from the Rio Grande, upstream and downstream of Los Alamos Canyon(LAC) in 2020.

Location/Mi from LAC	Rio Grande Location	Sample ID	Abundance	Species Richness	% EPT
4.5 miles upstream of Otowi bridge	Upstream	SFB-20-205766	4352.00	27	80.70
2.4 miles upstream of Otowi bridge	Upstream	SFB-20-205767	876.80	27	85.22
2 miles upstream of Otowi bridge	Upstream	SFB-20-205768	3102.00	28	44.49
1.8 miles upstream of Otowi bridge	Upstream	SFB-20-205769	1112.00	35	54.14
1.4 miles upstream of Otowi bridge	Upstream	SFB-20-205770	938.67	37	68.75
1 mile upstream of Otowi bridge	Upstream	SFB-20-205771	2380.00	31	89.24
0.3 miles upstream of Otowi bridge	Upstream	SFB-20-205772	824.00	40	55.73
Los Alamos Canyon	Downstream	SFB-20-205758	1872.00	39	68.32
0.3 miles downstream of Otowi bridge	Downstream	SFB-20-205759	1789.71	25	60.15
2.8 downstream of Otowi bridge	Downstream	SFB-20-205760	2024.00	28	82.21
3.2 downstream of Otowi bridge (Sandia Canyon)	Downstream	SFB-20-205761	384.00	20	93.49
3.3 downstream of Otowi bridge	Downstream	SFB-20-205762	1782.86	27	85.96
4.2 downstream of Otowi bridge (Mortandad Canyon)	Downstream	SFB-20-205763	2452.80	29	44.03
9 downstream of Otowi bridge	Downstream	SFB-20-205764	298.00	25	65.10
9.2 downstream of Otowi bridge (Ancho Canyon)	Downstream	SFB-20-205765	360.00	26	86.67
P value	NA	NA	0.35	0.08	0.59

Table S7-45. Benthic macroinvertebrate metrics from the Rio Grande, upstr

Location/Mi from LAC	Rio Grande Location	Shannon-Weaver	Simpson's Heterogeneity
4.5 miles upstream of Otowi bridge	Upstream	0.92	0.78
2.4 miles upstream of Otowi bridge	Upstream	0.82	0.70
2 miles upstream of Otowi bridge	Upstream	0.97	0.81
1.8 miles upstream of Otowi bridge	Upstream	1.13	0.89
1.4 miles upstream of Otowi bridge	Upstream	1.10	0.86
1 mile upstream of Otowi bridge	Upstream	1.03	0.82
0.3 miles upstream of Otowi bridge	Upstream	1.21	0.91
Los Alamos Canyon	Downstream	1.07	0.84
0.3 miles downstream of Otowi bridge	Downstream	1.13	0.91
2.8 downstream of Otowi bridge	Downstream	0.93	0.81
3.2 downstream of Otowi bridge (Sandia Canyon)	Downstream	0.87	0.82
3.3 downstream of Otowi bridge	Downstream	0.93	0.79
4.2 downstream of Otowi bridge (Mortandad Canyon)	Downstream	1.06	0.85
9 downstream of Otowi bridge	Downstream	1.09	0.86
9.2 downstream of Otowi bridge (Ancho Canyon)	Downstream	1.06	0.89
P value	NA	0.89	0.47

Table S7-45. Benthic macroinvertebrate metrics from the Rio Grande, upstr

Location/Mi from LAC	Rio Grande Location	Hilsenhoff Biotic Indix	Metals Tolerance Index
4.5 miles upstream of Otowi bridge	Upstream	4.03	4.09
2.4 miles upstream of Otowi bridge	Upstream	2.12	3.26
2 miles upstream of Otowi bridge	Upstream	4.28	5.80
1.8 miles upstream of Otowi bridge	Upstream	5.17	5.42
1.4 miles upstream of Otowi bridge	Upstream	4.87	4.29
1 mile upstream of Otowi bridge	Upstream	4.22	3.56
0.3 miles upstream of Otowi bridge	Upstream	4.55	4.24
Los Alamos Canyon	Downstream	4.71	4.95
0.3 miles downstream of Otowi bridge	Downstream	4.52	5.88
2.8 downstream of Otowi bridge	Downstream	4.29	4.21
3.2 downstream of Otowi bridge (Sandia Canyon)	Downstream	3.89	4.02
3.3 downstream of Otowi bridge	Downstream	4.20	4.22
4.2 downstream of Otowi bridge (Mortandad Canyon)	Downstream	5.36	6.45
9 downstream of Otowi bridge	Downstream	4.77	4.26
9.2 downstream of Otowi bridge (Ancho Canyon)	Downstream	4.14	4.18
P value	NA	0.44	0.43