

Steve Sisolak
Governor



Richard Whitley, MS
Director

**DEPARTMENT OF
HEALTH AND HUMAN SERVICES**
DIVISION OF PUBLIC AND BEHAVIORAL HEALTH
Helping people. It's who we are and what we do.



Lisa Sherych
Administrator

Ihsan Azzam,
Ph.D., M.D.
Chief Medical Officer

June 28, 2022

MEMORANDUM

To: Beatty File

From: John Follette, Manager, Radiation Control Program Beatty *JF*

Subject: Inspection Summary June 27, 2022

An inspection of the Beatty Low-Level Radioactive Waste landfill (closed) was conducted on June 27, 2022 by John Follette and Jaime Walters. The site is properly secured with an outside perimeter fence placed on the western and southern sides of the site. An interior boundary has been established around the entire area surrounding the cap. Caution Radioactive Materials signs are posted at the boundary to clearly mark the location of the low-level radioactive waste area. The radiological survey was performed using two BNC Model SAMpack-120 with serial numbers BSN 120068 and BSN 120077. The survey was conducted by driving the backpacks around the site boundary access road and by walking in a grid pattern across the cap to detect radiological anomalies. None were detected. Dose rate readings on the cap remain about twice background*, as measured in the background location.

Status of Previous Inspection Items:

The markers for the trenches are not in place on the cap. They are still stacked off to the side of the cap, near the southwest corner.

Site Observations:

Radiological Postings Adequate: Yes

Site Boundary and Access Road Maintained: Yes

Erosion, Fissures, Water Pooling, or Subsidence Concerns:
No concerns identified.

Rain Since Last Inspection:

February – 0.23”, March – 0.00”, April – 0.02”, May – 0.01”, and June – 0.00” as of June 27, 2022.

Radiation Survey Results:

Instruments:

BNC Model SAMpack-120 (BSN 120068) Calibration date: Daily by self-calibration

BNC Model SAMpack-120 (BSN 120077) Calibration date: Daily by self-calibration

Background Location: Between US 95 and the site, at the south-east side of the site entrance gate.

Background measurement: 15 – 25 urem/hr

Value used for twice background: 50 urem/hr

Site Boundary Highest Measurement: Within twice background*

Cap Highest Measurement: Within twice background*

*If sustained radiation measurements are above twice background, record the measurement and identify the location. Otherwise, indicate all measurements were within twice background.

For any reading above 0.5 mrem/hr contact a supervisor or the State of Nevada Radiation Control Program Manager. (Site Stabilization and Closure Plan Closure Plan for Low-Level Radioactive Waste Management Facility US Ecology, Inc. Beatty, Nevada, submittal date December 1988.)

Contacts: John Follette: 702-486-3017, jfollette@health.nv.gov
 Corey Creveling: 775-687-7536, ccreveling@health.nv.gov

Station Summary

Beatty 11SSE US Ecology Nevada Monthly Summary for February, 2022

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. mph	Wind V. Dir. Deg	Air Temperature			Humidity			Dew Point Deg. Fahrenheit	Wet Bulb Deg. Fahrenheit	Total Precip. inches	
					Max. mph	Mean Deg. Fahrenheit	Max Min	Mean Max Min	Percent					
1	32	138	22.2	330	42.3	46	53	38	19	27	12	6	32	0.00
2	33	3	17.6	340	41.3	40	47	32	21	29	12	3	28	0.00
3	34	54	12.6	338	33.6	43	56	33	23	33	16	8	31	0.00
4	35		4.2	265	15.2	43	61	28	27	46	13	10	31	0.00
5	36	34	9.4	323	33.5	50	65	32	19	33	10	8	34	0.00
6	37	2	9.8	304	29.8	53	68	42	17	25	10	9	37	0.00
7	38	9	4.3	249	11.5	51	69	37	21	32	11	11	35	0.23
8	39	9	11.8	335	34.6	58	73	39	18	32	8	12	39	0.00
9	40	3	21.0	323	42.2	61	73	51	18	30	12	17	42	0.00
10	41	6	17.0	332	35.2	63	75	54	26	37	15	27	45	0.00
11	42	0	15.2	336	33.0	65	76	51	19	39	7	19	44	0.00
12	43	2	4.7	212	14.8	57	74	43	18	32	8	12	39	0.00
13	44	2	4.6	267	14.1	55	76	38	15	27	6	6	37	0.00
14	45	17	5.4	212	17.6	55	69	38	15	25	8	7	37	0.00
15	46	168	18.2	322	47.2	48	59	37	38	61	18	22	37	0.00
16	47	137	25.4	339	52.4	49	58	42	30	45	18	18	36	0.00
17	48	6	11.8	330	29.5	48	61	39	24	34	12	12	34	0.00
18	49	12	5.9	274	19.4	52	67	39	24	38	12	15	37	0.00
19	50	0	4.0	263	12.2	53	72	36	22	40	9	13	37	0.00
20	51	0	4.5	289	13.9	52	67	35	21	34	12	12	36	0.00
21	52				30.7		61	40		34	16			
22	53	139	11.8	258	34.4	41	55	27	38	68	19	16	31	0.00
23	54	2	20.3	328	39.2	36	44	30	36	85	16	10	28	0.00
24	55	200	8.1	236	34.6	37	50	24	24	42	11	4	26	0.00
25	56	381	10.8	323	22.6	41	54	28	20	33	9	2	29	0.00
26	57	160	4.9	350	20.5	44	61	29	18	32	7	0	30	0.00
27	58	24	4.9	250	18.3	49	69	27	13	23	5	-2	32	0.00
28	59	27	4.6	235	24.9	58	79	39	14	25	6	7	38	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. mph	Wind V. Dir. Deg	Max. mph	Air Temperature Mean Deg. Fahrenheit			Humidity Percent			Dew Point Deg. Fahrenheit	Wet Bulb Deg. Fahrenheit	Total Precip. inches
Total	1538				50.0	63.9	36.7	22	37	11	11	35	0.23
Ave.	59	10.9	316	28.5	50.0	63.9	36.7	22	37	11	11	35	
Max.	381	25.4		52.4	65	79	54	38	85	19	27	45	0.23
Min.	0	4.0		11.5	36	44	24	13	23	5	-2	26	0.00

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.

° 1 ly = 1 cal/cm² = 4.1855 J/cm² = 3.6855 BTU/ft² = .01163 KW-hr/m²

Station Summary

Beatty 11SSE US Ecology Nevada Monthly Summary for March, 2022

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Wind Dir. Deg	Wind Max. mph	Air Temperature Mean Deg. Fahrenheit	Air Temperature Max Fahrenheit	Air Temperature Min Fahrenheit	Humidity Mean Percent	Humidity Max Percent	Humidity Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
1	60	104	4.1	278	14.6	61	82	42	14	24	6	8	40	0.00
2	61	2	5.4	258	16.2	60	79	43	13	23	6	7	39	0.00
3	62	1	8.1	237	24.2	59	77	42	13	21	7	7	39	0.00
4	63	4	13.0	139	27.1	56	65	49	32	55	14	26	42	0.00
5	64	59	15.6	344	41.5	44	52	39	41	65	18	21	35	0.00
6	65	89	20.7	340	39.7	48	55	41	31	45	19	18	35	0.00
7	66	27	18.9	337	37.3	46	54	37	24	41	14	10	33	0.00
8	67	12	8.7	327	27.5	50	65	35	22	36	13	12	35	0.00
9	68	0	7.1	259	21.7	54	68	34	25	44	13	17	38	0.00
10	69	158	25.5	338	57.3	47	54	40	21	41	6	6	33	0.00
11	70	14	10.3	311	29.8	49	66	34	10	18	4	-9	32	0.00
12	71	0	5.0	243	18.5	52	71	33	10	18	5	-5	34	0.00
13	72	0	7.8	285	25.0	55	74	37	13	19	7	3	36	0.00
14	73	3	6.5	185	33.5	60	74	46	19	31	11	17	41	0.00
15	74	68	7.3	294	29.8	60	73	42	22	34	12	19	42	0.00
16	75	147	21.5	330	41.0	61	70	53	25	43	10	23	44	0.00
17	76	9	7.8	206	30.0	57	70	44	18	35	6	11	39	0.00
18	77	190	6.1	280	21.7	58	76	40	15	23	9	11	39	0.00
19	78	2	11.3	229	35.3	59	75	47	20	43	6	17	41	0.00
20	79	31	26.5	335	58.8	56	64	49	25	46	11	18	40	0.00
21	80	9	19.3	336	36.5	60	72	48	19	27	14	17	42	0.00
22	81				40.8		77	51		37	16			
23	82	0	4.7	193	14.5	64	80	47	25	46	13	26	46	0.00
24	83	27	5.3	282	20.5	68	86	48	20	35	11	23	46	0.00
25	84	24	6.4	214	19.2	71	89	51	17	29	9	23	47	0.00
26	85	0	9.1	188	27.5	73	89	55	14	27	4	17	47	0.00
27	86	1	15.4	163	32.9	72	83	57	10	19	4	11	46	0.00
28	87	11	12.5	176	40.7	59	68	51	35	67	12	28	44	0.00
29	88	10	14.9	324	42.2	59	72	43	42	80	17	33	46	0.00
30	89	1	10.1	288	30.6	65	77	50	25	44	13	27	46	0.00
31	90	3	9.9	305	26.2	65	77	51	24	37	15	26	46	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. V. mph	Wind Dir. Deg	Wind Max. mph	Air Temperature Mean Deg. Fahrenheit	Air Temperature Max Fahrenheit	Air Temperature Min Fahrenheit	Humidity Mean Percent	Humidity Max Percent	Humidity Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	1006												0.00
Ave.	34	11.5	301	31.0	58.4	72.0	44.6	21	37	10	16	40	
Max.	190	26.5		58.8	73	89	57	42	80	19	33	47	0.00
Min.	0	4.1		14.5	44	52	33	10	18	4	-9	32	0.00

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.

° 1 ly = 1 cal/cm² = 4.1855 J/cm² = 3.6855 BTU/ft² = .01163 KW-hr/m²

Station Summary

Beatty 11SSE US Ecology Nevada Monthly Summary for April, 2022

Day	Day	Total	Wind		Air Temperature			Humidity			Dew	Wet	Total	
of	of	Solar Rad.	Ave. V.	Dir.	Max.	Mean	Max	Min	Mean	Max	Min	Point	Bulb	Precip
Month	Year	ly.	mph	Deg	mph	Deg. Fahrenheit			Percent			Deg. Fahrenheit		inches
1	91	3	8.4	298	31.0	67	81	54	17	24	11	19	45	0.00
2	92	26	5.9	241	18.6	67	83	48	20	31	12	24	46	0.00
3	93	0	8.7	284	30.8	69	80	55	16	25	11	21	46	0.00
4	94	6	7.1	268	22.6	69	85	55	12	23	6	13	45	0.00
5	95	0	15.7	333	47.0	69	83	51	16	31	9	19	46	0.00
6	96	0	13.6	329	35.1	67	83	53	9	12	4	4	42	0.00
7	97	13	4.7	245	15.7	68	88	47	9	15	5	5	43	0.00
8	98	29	5.1	235	18.0	73	91	52	9	16	5	9	46	0.00
9	99	0	14.8	305	50.1	73	89	56	10	15	4	11	46	0.00
10	100	1	12.2	310	48.6	61	73	49	10	14	6	3	39	0.00
11	101	1	18.1	215	61.5	59	78	42	15	27	9	11	40	0.00
12	102	4	16.8	339	67.5	47	60	39	14	26	7	-2	32	0.00
13	103	15	5.1	161	21.9	52	68	36	11	23	4	-3	34	0.00
14	104		7.5	177	22.5	57	73	37	14	25	9	7	38	0.00
15	105	5	7.1	144	19.1	63	79	44	22	36	13	23	44	0.00
16	106				39.9		79	56		33	10			
17	107				15.8		84	52		33	7			
18	108	0	7.8	183	24.2	71	88	49	12	27	5	11	45	0.00
19	109	3	10.8	152	39.2	73	87	57	12	31	6	16	47	0.00
20	110	0	8.6	154	24.2	67	81	49	24	36	14	28	47	0.00
21	111	0	13.0	174	33.7	65	80	53	25	45	11	27	46	0.00
22	112	19	14.2	310	35.6	57	66	48	32	74	12	24	42	0.02
23	113	0	15.3	334	35.3	61	71	51	20	34	10	18	42	0.00
24	114	0	9.8	331	25.0	62	75	48	15	28	7	12	41	0.00
25	115	2	6.1	178	22.7	64	81	43	11	19	6	7	41	0.00
26	116	0	8.9	169	31.9	72	86	53	11	17	7	13	46	0.00
27	117	0	8.6	155	23.0	73	84	52	16	28	9	22	48	0.00
28	118	0	14.8	132	42.2	69	83	59	13	23	4	14	45	0.00
29	119	0	17.8	330	43.4	67	81	56	13	25	4	10	43	0.00
30	120	0	7.1	165	23.3	72	88	51	9	18	4	8	45	0.00

MONTHLY STATISTICS

	Total	Wind		Air Temperature			Humidity			Dew	Wet	Total	
	Solar Rad.	Ave. V.	Dir.	Max.	Mean	Max	Min	Mean	Max	Min	Point	Bulb	Precip.
	ly.	mph	Deg	mph	Deg. Fahrenheit			Percent			Deg. Fahrenheit		inches
Total	129												0.02
Ave.	5	10.5	274	32.3	65.5	80.3	49.8	15	27	8	13	43	
Max.	29	18.1		67.5	73	91	59	32	74	14	28	48	0.02
Min.	0	4.7		15.7	47	60	36	9	12	4	-3	32	0.00

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.

° 1 ly = 1 cal/cm² = 4.1855 J/cm² = 3.6855 BTU/ft² = .01163 KW-hr/m²

Station Summary

Beatty 11SSE US Ecology Nevada Monthly Summary for **May, 2022**

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Deg. Fahrenheit	Max Min	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
1	121	0	18.0	336	48.2	66 74 55	17 28 8	19	45	0.00
2	122	1	8.1	164	34.9	69 84 48	17 31 9	20	46	0.00
3	123	0	22.0	341	43.3	66 77 55	15 22 8	16	44	0.00
4	124	0	9.3	278	27.3	70 84 53	18 32 9	22	47	0.00
5	125	14	7.7	242	24.5	75 91 51	13 25 6	17	48	0.00
6	126	10	7.9	141	21.9	80 94 59	14 23 8	25	52	0.00
7	127	0	11.0	159	28.5	78 91 61	17 32 6	25	51	0.00
8	128	0	15.0	198	41.9	67 84 53	15 30 3	15	45	0.00
9	129	5	9.1	175	40.5	58 71 46	13 22 7	6	38	0.00
10	130	2	10.6	225	32.3	57 70 43	17 31 10	12	39	0.00
11	131	38	20.2	321	43.6	53 62 46	26 58 11	18	38	0.01
12	132	0	7.4	272	19.3	60 75 43	17 35 8	12	40	0.00
13	133	0	6.3	279	21.4	69 87 45	12 20 6	13	44	0.00
14	134	6	5.2	256	22.4	78 96 53	9 17 5	12	48	0.00
15	135	15	6.0	227	23.6	81 97 59	7 13 3	8	49	0.00
16	136	1	8.0	217	41.1	82 97 61	11 17 5	22	52	0.00
17	137	0	7.2	174	24.5	83 96 67	9 14 6	17	51	0.00
18	138	0	7.7	277	25.9	86 99 71	10 15 7	22	53	0.00
19	139	0	10.7	281	41.9	85 99 63	10 17 7	22	53	0.00
20	140	0	20.0	338	46.0	68 79 59	9 14 7	7	43	0.00
21	141	52	4.8	259	16.8	68 83 49	9 15 6	5	43	0.00
22	142	10	7.4	244	24.6	75 91 55	9 13 6	11	47	0.00
23	143	33	12.2	333	32.9	78 89 64	9 14 6	15	49	0.00
24	144	0	7.5	295	23.1	81 94 61	9 15 6	15	50	0.00
25	145	0	6.5	182	20.6	86 100 67	10 16 6	21	53	0.00
26	146				34.2	100 64	17 7			
27	147	0	11.0	140	26.6	85 96 76	12 18 7	26	54	0.00
28	148	8	11.0	142	24.5	80 93 69	20 29 11	34	54	0.00
29	149	0	20.7	342	46.7	72 83 64	13 29 6	16	47	0.00
30	150	2	8.5	311	24.3	69 82 56	13 21 8	16	45	0.00
31	151	0	15.9	344	34.6	73 83 60	15 30 7	20	48	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Deg. Fahrenheit	Max Min	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	197								0.01
Ave.	7	10.8	284	31.0	73.2 87.1 57.3	13 23 7	17	47	
Max.	52	22.0		48.2	86 100 76	26 58 11	34	54	0.01
Min.	0	4.8		16.8	53 62 43	7 13 3	5	38	0.00

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.

° 1 ly = 1 cal/cm² = 4.1855 J/cm² = 3.6855 BTU/ft² = .01163 KW-hr/m²

Station Summary

Beatty 11SSE US Ecology Nevada Monthly Summary for June, 2022

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Max Min Deg. Fahrenheit	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches	
1	152	0	4.2	181	14.6	75 92 58	11 20 6	16	48	0.00
2	153	0	6.0	193	25.4	80 95 58	9 13 5	14	50	0.00
3	154	0	8.8	146	25.4	83 96 66	12 18 7	24	53	0.00
4	155	0	8.9	126	22.3	81 93 71	20 30 11	34	55	0.00
5	156	0	6.7	180	22.4	85 98 69	20 31 11	38	57	0.00
6	157	0	9.1	300	28.5	86 100 70	14 39 4	25	54	0.00
7	158	0	5.4	209	22.5	89 103 73	7 13 5	18	54	0.00
8	159	5	7.3	184	24.1	89 104 69	10 15 6	25	55	0.00
9	160	0	7.4	222	23.4	88 103 68	10 17 5	23	54	0.00
10	161	11	6.9	197	25.8	92 108 70	11 19 6	29	57	0.00
11	162	7	7.9	178	23.1	93 108 72	12 22 6	31	58	0.00
12	163	0	15.1	149	37.1	90 106 74	15 27 4	34	58	0.00
13	164	2	14.5	341	44.7	84 97 73	19 39 5	34	56	0.00
14	165	1	11.2	300	32.9	77 92 63	8 15 4	10	48	0.00
15	166	0	6.9	201	28.2	85 100 68	6 11 4	11	51	0.00
16	167	0	13.0	200	34.5	88 104 64	8 12 4	18	53	0.00
17	168	0	20.7	169	43.5	83 94 72	10 17 5	20	52	0.00
18	169	0	12.7	147	37.0	74 88 62	9 19 2	10	47	0.00
19	170	0	11.0	305	30.4	73 84 61	16 30 7	21	48	0.00
20	171	0	8.7	283	24.8	78 92 66	11 18 5	17	49	0.00
21	172	0	5.1	252	19.0	82 98 62	7 12 4	10	49	0.00
22	173	0	9.6	298	32.1	72 80 64	32 66 7	34	53	0.00
23	174	0	10.4	243	52.0	78 96 59	39 75 15	48	59	0.00
24	175	0	5.2	221	24.3	84 99 65	22 53 8	36	57	0.00
25	176	0	6.1	259	23.3	88 103 66	13 27 6	28	56	0.00
26	177	0	5.8	217	27.8	91 105 71	10 22 5	26	56	0.00
27	178	1	7.0	150	22.6	93 106 73	16 35 8	38	60	0.00
28	179			17.9		101 76	24 12			
29	180									
30	181									

MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Max Min Deg. Fahrenheit	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches			
Total	28							0.00			
Ave.	1	8.9	203	28.2	83.8 98.1 67.2	14	26	6	25	54	
Max.	11	20.7		52.0	93 108 76	39	75	15	48	60	0.00
Min.	0	4.2		14.6	72 80 58	6	11	2	10	47	0.00

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.

° 1 ly = 1 cal/cm² = 4.1855 J/cm² = 3.6855 BTU/ft² = .01163 KW-hr/m²