

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

February 18, 2022

MEMORANDUM

To: Beatty File

From: Haley Brown, Radiation Control Specialist *HB*

Subject: Beatty Inspection Summary February 18, 2022

An inspection of the Beatty Low-Level Radioactive Waste landfill (closed) was conducted on February 18, 2022 by Haley Brown. The site completed construction on Phase II of the Low-Level Radioactive Waste Soil Cap placement to substantially increase the overall thickness of cover soils, increase mass buffer and mitigate poor perimeter drainage. In total, around 631,000 cubic yards of soil cover was added to the cap. The site has been properly secured with an outside perimeter fence which was 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 were added to this boundary to clearly mark the location of the low-level radioactive waste area. The radiological survey was performed by driving the BNC Model SAMpack-120 (BSN 120068) backpack around the site boundary access road and walking up to the top of the cap and then walking in a 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

Rain Since Last Inspection:

November – 0.00”, December – 0.87”, January – 0.00”, and November – 0.23” as of February 22, 2022.

**Radiation Survey Results:**

Instrument: BNC Model SAMpack-120 (BSN 120068) 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: 13 – 18 urem/hr

Value used for twice background: 36 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:      Karen Beckley:      775-687-7540, [kbeckley@health.nv.gov](mailto:kbeckley@health.nv.gov)  
                  John Follette:      702-486-3017, [jfollette@health.nv.gov](mailto:jfollette@health.nv.gov)  
                  Haley Brown:      702-486-3015, [habrown@health.nv.gov](mailto:habrown@health.nv.gov)

←
prev  
month
Station Summary
next  
month
→

**Beatty 11SSE US Ecology Nevada**

Monthly Summary for

**November, 2021**

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	305	16	5.5	269	17.7	59	70	48	38	60	21	32	46	0.00
2	306	0	4.2	296	11.1	61	78	47	32	49	15	29	45	0.00
3	307	0	3.7	274	12.4	65	81	51	27	41	14	28	46	0.00
4	308	0	6.1	265	15.3	63	79	48	30	45	17	29	46	0.00
5	309	0	4.3	296	13.1	64	79	49	28	44	16	29	46	0.00
6	310	0	5.7	343	14.9	64	80	46	23	49	8	21	44	0.00
7	311	0	5.2	304	18.1	62	77	45	19	35	13	19	43	0.00
8	312	5	5.2	181	20.6	60	72	45	29	50	17	27	44	0.00
9	313	4	7.6	127	18.7	61	71	50	26	47	17	25	44	0.00
10	314	2	9.9	323	28.1	63	77	47	33	53	16	32	47	0.00
11	315	0	12.0	337	37.8	66	78	57	31	43	19	35	49	0.00
12	316	0	3.9	251	12.3	64	81	51	32	50	17	32	47	0.00
13	317	0	4.4	270	12.2	64	84	46	26	47	12	26	45	0.00
14	318	0	5.0	267	11.7	64	83	50	22	34	10	22	44	0.00
15	319	1	4.9	285	14.1	62	77	47	21	31	13	21	43	0.00
16	320	0	4.9	305	19.2	63	79	52	20	29	11	20	44	0.00
17	321	0	7.9	303	34.3	61	73	45	22	36	13	21	42	0.00
18	322	51	4.7	269	12.6	54	67	40	21	30	13	14	38	0.00
19	323	3	5.4	287	14.0	56	70	43	23	32	15	18	39	0.00
20	324	33	14.0	318	35.3	58	69	45	27	34	18	24	42	0.00
21	325	14	7.4	331	26.4	55	67	43	20	35	11	13	38	0.00
22	326	31	4.3	278	11.8	51	68	36	16	27	8	5	35	0.00
23	327	28	6.3	290	32.6	55	71	39	15	23	9	7	37	0.00
24	328	1	15.6	331	34.3	51	58	44	17	28	10	7	35	0.00
25	329	28	8.3	38	30.9	51	67	38	11	20	5	-4	34	0.00
26	330	23	4.4	272	12.7	52	71	34	8	14	4	-9	33	0.00
27	331	0	4.0	219	11.2	56	76	40	7	14	3	-8	35	0.00
28	332	0	3.8	272	11.1	58	78	43	15	23	8	9	38	0.00
29	333	0	3.6	182	11.8	60	79	43	19	32	10	16	41	0.00
30	334	0	6.0	71	30.4	66	81	53	16	26	9	18	44	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	241												0.00
Ave.	8	6.3	299	19.6	59.6	74.6	45.5	22	36	12	19	42	
Max.	51	15.6		37.8	66	84	57	38	60	21	35	49	0.00
Min.	0	3.6		11.1	51	58	34	7	14	3	-9	33	0.00

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

° 1 ly = 1 cal/cm<sup>2</sup> = 4.1855 J/cm<sup>2</sup> = 3.6855 BTU/ft<sup>2</sup> = .01163 KW-hr/m<sup>2</sup>

Station Summary

**Beatty 11SSE US Ecology Nevada**

Monthly Summary for

**December, 2021**

Day of Month	Day Year	Total Solar Rad. ly.	Wind Ave. V. mph	Wind Dir. Deg	Air Temperature Max. Deg. Fahrenheit	Air Temperature Mean Deg. Fahrenheit	Air Temperature Min	Humidity Mean	Humidity Max	Humidity Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches	
<a href="#">1</a>	335	0	5.2	281	16.8	61	77	48	16	24	8	13	41	0.00
<a href="#">2</a>	336	18	4.2	275	12.1	55	71	42	19	28	12	13	38	0.00
<a href="#">3</a>	337	4	4.9	232	10.9	54	73	42	21	30	11	14	38	0.00
<a href="#">4</a>	338	27	3.7	296	10.2	54	73	40	23	34	13	16	38	0.00
<a href="#">5</a>	339	0	16.3	329	37.8	64	73	50	17	27	10	17	43	0.00
<a href="#">6</a>	340	2	4.8	115	13.7	57	66	47	22	29	17	19	40	0.00
<a href="#">7</a>	341	0	5.0	137	15.3	56	62	48	38	55	22	30	43	0.00
<a href="#">8</a>	342	0	6.0	212	16.4	51	63	38	51	70	34	33	42	0.00
<a href="#">9</a>	343	17	10.6	308	33.2	47	55	40	58	71	39	33	40	0.00
<a href="#">10</a>	344	157	11.6	318	31.7	40	48	28	38	58	22	16	31	0.00
<a href="#">11</a>	345	245	4.5	239	12.2	37	50	25	37	63	18	12	28	0.00
<a href="#">12</a>	346	216	5.3	270	15.1	39	52	24	31	52	16	9	28	0.00
<a href="#">13</a>	347	138	9.2	162	24.8	43	52	30	31	52	21	14	32	0.00
<a href="#">14</a>	348	37	20.4	158	44.0	43	49	34	67	91	39	32	38	0.76
<a href="#">15</a>	349	263	5.4	292	19.5	37	45	30	60	88	41	24	31	0.00
<a href="#">16</a>	350	185	7.5	302	34.7	37	47	27	63	89	42	25	32	0.00
<a href="#">17</a>	351	28	12.2	324	30.3	39	49	32	46	69	26	20	32	0.00
<a href="#">18</a>	352	277	3.0	229	9.5	37	53	26	49	72	18	18	30	0.00
<a href="#">19</a>	353	274	4.4	280	12.8	38	52	27	49	73	21	19	30	0.00
<a href="#">20</a>	354	216	4.3	298	10.7	40	54	27	48	73	22	20	32	0.00
<a href="#">21</a>	355	82	3.4	278	9.3	43	58	32	46	70	19	22	34	0.00
<a href="#">22</a>	356	97	3.5	279	11.1	40	53	30	52	75	27	23	33	0.00
<a href="#">23</a>	357	20	8.6	127	21.8	47	53	40	69	84	50	37	42	0.00
<a href="#">24</a>	358				23.2		60	41		90	39			
<a href="#">25</a>	359	26	12.6	138	26.7	46	53	38	61	83	44	32	39	0.00
<a href="#">26</a>	360	41	10.4	149	26.9	44	52	38	41	58	22	21	34	0.00
<a href="#">27</a>	361	34	8.4	153	23.2	39	51	25	56	81	31	24	32	0.00
<a href="#">28</a>	362	118	5.1	150	17.4	36	43	26	69	86	51	26	32	0.00
<a href="#">29</a>	363	127	6.5	305	20.7	34	40	22	76	92	57	27	31	0.04
<a href="#">30</a>	364	44	3.4	312	11.9	40	44	35	86	92	79	36	38	0.06
<a href="#">31</a>	365	128	11.9	324	62.9	44	51	35	64	90	25	31	38	0.01

**MONTHLY STATISTICS**

	Total Solar Rad. ly.	Wind Ave. V. mph	Wind Dir. Deg	Air Temperature Max. Deg. Fahrenheit	Air Temperature Mean Deg. Fahrenheit	Air Temperature Min	Humidity Mean	Humidity Max	Humidity Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches	
Total	2824											0.87	
Ave.	94	7.4	280	21.5	44.7	55.6	34.3	47	66	29	23	35	
Max.	277	20.4		62.9	64	77	50	86	92	79	37	43	0.76
Min.	0	3.0		9.3	34	40	22	16	24	8	9	28	0.00

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

° 1 ly = 1 cal/cm<sup>2</sup> = 4.1855 J/cm<sup>2</sup> = 3.6855 BTU/ft<sup>2</sup> = .01163 KW-hr/m<sup>2</sup>

Station Summary

**Beatty 11SSE US Ecology Nevada**

Monthly Summary for

**January, 2022**

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Deg	Max. mph	Air Temperature Mean Deg. Fahrenheit	Max Fahrenheit	Min Fahrenheit	Humidity Mean	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
<a href="#">1</a>	1	157	9.2	326	41.3	37	45	27	33	60	19	10	28	0.00
<a href="#">2</a>	2	25	4.9	252	11.3	33	46	21	45	68	20	13	26	0.00
<a href="#">3</a>	3	160	4.7	275	12.0	34	46	24	44	66	22	14	27	0.00
<a href="#">4</a>	4	206	4.2	290	10.5	39	57	25	40	61	17	15	30	0.00
<a href="#">5</a>	5	125	4.2	280	16.6	46	66	30	42	66	21	23	36	0.00
<a href="#">6</a>	6	76	5.2	199	13.3	49	64	38	53	76	31	31	40	0.00
<a href="#">7</a>	7	77	5.3	293	17.6	48	61	34	52	82	31	30	39	0.00
<a href="#">8</a>	8	52	14.0	321	29.7	50	60	39	32	46	19	21	38	0.00
<a href="#">9</a>	9	57	4.7	250	19.5	46	61	33	34	53	17	17	34	0.00
<a href="#">10</a>	10	67	4.8	314	16.3	45	59	30	33	55	16	15	33	0.00
<a href="#">11</a>	11	42	4.1	149	21.4	49	67	31	29	52	11	16	36	0.00
<a href="#">12</a>	12	86	3.7	256	12.5	52	72	37	30	52	10	20	38	0.00
<a href="#">13</a>	13	2	4.0	291	13.2	50	62	39	35	49	21	22	38	0.00
<a href="#">14</a>	14	9	15.7	333	35.6	54	64	39	29	49	18	21	39	0.00
<a href="#">15</a>	15	15	3.5	270	14.5	49	61	39	33	51	15	20	36	0.00
<a href="#">16</a>	16	2	3.4	261	10.3	47	66	33	28	49	9	13	34	0.00
<a href="#">17</a>	17	7	4.5	252	13.4	48	62	38	25	39	13	12	34	0.00
<a href="#">18</a>	18	18	5.0	307	24.6	50	65	40	29	38	17	18	37	0.00
<a href="#">19</a>	19	6	12.3	347	32.3	53	63	41	31	46	20	22	39	0.00
<a href="#">20</a>	20	3	8.0	308	29.0	53	68	40	30	42	14	21	39	0.00
<a href="#">21</a>	21	45	17.9	332	45.3	49	58	36	32	51	19	19	36	0.00
<a href="#">22</a>	22	23	24.1	331	39.8	48	59	39	27	39	13	14	35	0.00
<a href="#">23</a>	23	2	14.8	324	29.4	51	62	38	24	37	13	15	37	0.00
<a href="#">24</a>	24	0	5.7	107	28.0	53	72	40	27	45	11	18	38	0.00
<a href="#">25</a>	25	33	15.5	341	41.4	50	58	38	22	41	11	12	35	0.00
<a href="#">26</a>	26	70	4.1	281	16.2	43	59	30	25	44	11	8	30	0.00
<a href="#">27</a>	27	2	8.9	338	34.3	50	66	34	16	27	7	4	34	0.00
<a href="#">28</a>	28	12	3.9	277	14.0	45	61	30	15	28	6	-2	30	0.00
<a href="#">29</a>	29	37	3.7	285	13.5	46	66	29	13	23	6	-4	30	0.00
<a href="#">30</a>	30	7	4.8	311	18.5	49	68	35	13	23	5	-1	33	0.00
<a href="#">31</a>	31	7	5.6	262	17.8	46	63	30	17	27	8	2	31	0.00

**MONTHLY STATISTICS**

	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Deg	Max. mph	Air Temperature Mean Deg. Fahrenheit	Max Fahrenheit	Min Fahrenheit	Humidity Mean	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	1430												0.00
Ave.	46	7.6	309	22.4	47.1	61.5	34.1	30	48	15	15	35	
Max.	206	24.1		45.3	54	72	41	53	82	31	31	40	0.00
Min.	0	3.4		10.3	33	45	21	13	23	5	-4	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/cm<sup>2</sup> = 4.1855 J/cm<sup>2</sup> = 3.6855 BTU/ft<sup>2</sup> = .01163 KW-hr/m<sup>2</sup>

Station Summary

**Beatty 11SSE US Ecology Nevada**

Monthly Summary for

**February, 2022**

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Deg	Max. mph	Air Temperature Mean Deg. Fahrenheit	Max Fahrenheit	Min Fahrenheit	Humidity Mean Percent	Max Percent	Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
<a href="#">1</a>	32	138	22.2	330	42.3	46	53	38	19	27	12	6	32	0.00
<a href="#">2</a>	33	3	17.6	340	41.3	40	47	32	21	29	12	3	28	0.00
<a href="#">3</a>	34	54	12.6	338	33.6	43	56	33	23	33	16	8	31	0.00
<a href="#">4</a>	35		4.2	265	15.2	43	61	28	27	46	13	10	31	0.00
<a href="#">5</a>	36	34	9.4	323	33.5	50	65	32	19	33	10	8	34	0.00
<a href="#">6</a>	37	2	9.8	304	29.8	53	68	42	17	25	10	9	37	0.00
<a href="#">7</a>	38	9	4.3	249	11.5	51	69	37	21	32	11	11	35	0.23
<a href="#">8</a>	39	9	11.8	335	34.6	58	73	39	18	32	8	12	39	0.00
<a href="#">9</a>	40	3	21.0	323	42.2	61	73	51	18	30	12	17	42	0.00
<a href="#">10</a>	41	6	17.0	332	35.2	63	75	54	26	37	15	27	45	0.00
<a href="#">11</a>	42	0	15.2	336	33.0	65	76	51	19	39	7	19	44	0.00
<a href="#">12</a>	43	2	4.7	212	14.8	57	74	43	18	32	8	12	39	0.00
<a href="#">13</a>	44	2	4.6	267	14.1	55	76	38	15	27	6	6	37	0.00
<a href="#">14</a>	45	17	5.4	212	17.6	55	69	38	15	25	8	7	37	0.00
<a href="#">15</a>	46	168	18.2	322	47.2	48	59	37	38	61	18	22	37	0.00
<a href="#">16</a>	47	137	25.4	339	52.4	49	58	42	30	45	18	18	36	0.00
<a href="#">17</a>	48	6	11.8	330	29.5	48	61	39	24	34	12	12	34	0.00
<a href="#">18</a>	49	12	5.9	274	19.4	52	67	39	24	38	12	15	37	0.00
<a href="#">19</a>	50	0	4.0	263	12.2	53	72	36	22	40	9	13	37	0.00
<a href="#">20</a>	51	0	4.5	289	13.9	52	67	35	21	34	12	12	36	0.00
<a href="#">21</a>	52				30.7		61	40		34	16			
<a href="#">22</a>	53	139	11.8	258	34.4	41	55	27	38	68	19	16	31	0.00
<a href="#">23</a>	54				36.6		44	30		85	18			
<a href="#">24</a>	55													
<a href="#">25</a>	56													
<a href="#">26</a>	57													
<a href="#">27</a>	58													
<a href="#">28</a>	59													

MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Deg	Max. mph	Air Temperature Mean Deg. Fahrenheit	Max Fahrenheit	Min Fahrenheit	Humidity Mean Percent	Max Percent	Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	744				51.7	64.2	38.3	23	39	12	13	36	0.23
Ave.	37	11.5	319	29.4	51.7	64.2	38.3	23	39	12	13	36	
Max.	168	25.4		52.4	65	76	54	38	85	19	27	45	0.23
Min.	0	4.0		11.5	40	44	27	15	25	6	3	28	0.00

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.  
 ° 1 ly = 1 cal/cm<sup>2</sup> = 4.1855 J/cm<sup>2</sup> = 3.6855 BTU/ft<sup>2</sup> = .01163 KW-hr/m<sup>2</sup>