

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

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October 19, 2022

MEMORANDUM

To: Beatty File

From: Corey Creveling, Radiation Control Supervisor *CCC*

Subject: Beatty Inspection Summary September 27, 2022

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An inspection of the Beatty Low-Level Radioactive Waste landfill (closed) was conducted on September 27, 2022 by Corey Creveling, Ron Woodburn, and Steve Matthews. 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 BNC Model SAMpack-120 with serial numbers BSN 120069. The survey was conducted by driving the backpack 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. Recent repairs following two rain events on August 5, 2022 and September 13, 2022 were verified no significant erosion remains. The sides of the cap were recently repaired with visible tread and dozer blade markings and, the top of the cap was recently repaired with visible tread and dozer blade markings for two passes along the perimeter of the outer edge of the cap top.

**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:  
September – 1.00”, October – 0.47”.

## **Radiation Survey Results:**

### Instruments:

BNC Model SAMpack-120 (BSN 120069) 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: 20 – 25 µrem/hr

Value used for twice background: 50 µrem/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.)

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                  Corey Creveling:            775-687-7536, [ccreveling@health.nv.gov](mailto:ccreveling@health.nv.gov)

**Station Summary Beatty 11SSE US Ecology Nevada**  
 Monthly Summary for **August, 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
<a href="#">1</a>	213	1	8.3	217	41.7	82	95	73	58	87	31	64	70	0.00
<a href="#">2</a>	214	0	5.0	268	22.1	87	101	71	40	76	21	58	67	0.00
<a href="#">3</a>	215	0	4.9	245	23.5	93	106	79	26	41	16	52	65	0.00
<a href="#">4</a>	216	0	10.1	139	31.9	86	96	71	38	83	25	56	66	0.16
<a href="#">5</a>	217	0	5.0	273	21.2	74	84	67	75	95	52	65	68	0.63
<a href="#">6</a>	218	0	4.2	250	14.5	84	99	70	44	85	12	55	65	0.00
<a href="#">7</a>	219	41	5.1	256	22.7	89	104	71	33	62	14	52	65	0.00
<a href="#">8</a>	220	0	8.0	209	29.5	91	102	78	30	48	18	54	66	0.00
<a href="#">9</a>	221	11	12.2	131	34.7	88	101	80	35	58	20	57	67	0.09
<a href="#">10</a>	222	0	10.8	139	24.1	89	101	77	34	58	18	56	67	0.00
<a href="#">11</a>	223	0	8.9	167	22.4	91	103	77	29	55	13	52	65	0.00
<a href="#">12</a>	224	0	12.1	153	31.7	92	105	75	27	49	9	50	65	0.00
<a href="#">13</a>	225	0	9.0	129	25.0	85	97	78	38	57	22	56	65	0.00
<a href="#">14</a>	226	0	8.6	136	24.0	89	104	73	29	50	13	51	64	0.00
<a href="#">15</a>	227	1	8.1	129	38.5	89	102	74	33	70	18	55	66	0.08
<a href="#">16</a>	228	0	7.7	252	33.5	90	104	77	27	47	13	50	64	0.00
<a href="#">17</a>	229	0	7.1	207	38.2	93	105	80	26	43	16	51	65	0.00
<a href="#">18</a>	230	10	9.6	299	29.8	91	104	80	30	46	16	54	66	0.04
<a href="#">19</a>	231	0	5.3	229	22.6	91	104	76	25	52	12	47	63	0.00
<a href="#">20</a>	232	0	7.3	190	21.2	92	105	77	20	33	11	43	62	0.00
<a href="#">21</a>	233	0	8.0	160	21.2	93	106	82	19	34	8	43	62	0.00
<a href="#">22</a>	234	0	5.9	162	21.9	93	107	79	17	24	9	40	61	0.00
<a href="#">23</a>	235	0	7.4	172	19.4	93	108	75	16	29	9	38	60	0.00
<a href="#">24</a>	236	0	14.5	135	37.9	93	106	84	25	37	9	50	65	0.00
<a href="#">25</a>	237	1	10.7	113	49.0	88	102	80	31	47	20	53	65	0.00
<a href="#">26</a>	238	0	5.3	190	16.4	89	102	74	28	47	15	50	63	0.00
<a href="#">27</a>	239	0	7.6	173	22.2	90	103	74	18	38	7	37	59	0.00
<a href="#">28</a>	240	0	8.4	148	20.4	90	102	77	21	32	12	43	61	0.00
<a href="#">29</a>	241	0	7.1	159	25.1	89	102	74	25	42	13	47	63	0.00
<a href="#">30</a>	242	2	6.0	262	25.0	91	106	74	21	34	13	44	61	0.00
<a href="#">31</a>	243	0	6.6	275	26.6	93	109	74	16	31	8	38	60	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	68												1.00
Ave.	2	7.9	176	27.0	89.3	102.4	75.8	30	51	16	50	64	
Max.	41	14.5		49.0	93	109	84	75	95	52	65	70	0.63
Min.	0	4.2		14.5	74	84	67	16	24	7	37	59	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 **September, 2022**

Day of Month	Day of Year	Total Solar Rad. ly.	Ave. Wind mph	V. Dir. Deg	Max. Wind mph	Air Temperature Mean Deg. Fahrenheit	Max Fahrenheit	Min Fahrenheit	Humidity Mean Percent	Max Percent	Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb Fahrenheit	Total Precip. inches
<a href="#">1</a>	244	0	6.2	286	27.0	94	110	76	13	23	7	33	59	0.00
<a href="#">2</a>	245	5	5.2	190	24.7	96	114	76	13	22	6	34	60	0.00
<a href="#">3</a>	246	0	6.6	179	34.0	94	109	77	21	31	12	47	64	0.00
<a href="#">4</a>	247	0	5.6	271	21.1	94	109	77	23	37	13	48	64	0.00
<a href="#">5</a>	248	0	6.2	226	19.2	95	109	78	21	34	11	47	64	0.00
<a href="#">6</a>	249	0	5.5	223	23.3	96	113	78	15	29	6	38	61	0.00
<a href="#">7</a>	250	0	7.3	158	23.6	96	110	80	18	32	10	45	64	0.00
<a href="#">8</a>	251	0	7.5	254	34.7	93	107	76	19	32	9	44	62	0.00
<a href="#">9</a>	252	0	8.4	190	26.8	88	102	76	29	47	16	50	63	0.00
<a href="#">10</a>	253	0	10.6	132	26.3	80	90	72	51	66	33	60	66	0.00
<a href="#">11</a>	254	0	6.4	236	26.2	82	95	68	41	73	16	53	63	0.00
<a href="#">12</a>	255	3	8.5	127	25.7	78	87	72	44	64	34	54	62	0.00
<a href="#">13</a>	256	0	7.4	159	28.0	76	85	67	52	73	37	56	63	0.47
<a href="#">14</a>	257	0	6.9	163	19.9	75	88	63	45	85	14	47	58	0.00
<a href="#">15</a>	258	1	6.6	195	24.3	75	89	60	30	62	13	39	54	0.00
<a href="#">16</a>	259	0	5.2	226	19.8	75	90	59	26	45	12	35	53	0.00
<a href="#">17</a>	260	0	12.4	174	31.7	75	90	60	23	45	8	32	52	0.00
<a href="#">18</a>	261	0	14.1	155	36.3	75	87	65	22	40	8	32	52	0.00
<a href="#">19</a>	262	0	11.0	141	27.2	75	88	65	20	34	8	29	51	0.00
<a href="#">20</a>	263	5	12.1	157	35.1	75	87	61	19	35	9	29	51	0.00
<a href="#">21</a>	264	0	8.8	163	25.8	74	86	61	20	45	6	27	51	0.00
<a href="#">22</a>	265	0	4.7	230	15.6	71	87	57	20	33	9	27	49	0.00
<a href="#">23</a>	266	0	4.8	243	14.4	75	92	59	16	29	5	23	49	0.00
<a href="#">24</a>	267	0	4.8	260	17.5	79	97	58	17	27	7	29	52	0.00
<a href="#">25</a>	268	0	5.1	256	20.5	81	99	63	17	33	7	29	53	0.00
<a href="#">26</a>	269	0	5.1	260	18.0	81	98	62	12	20	6	21	51	0.00
<a href="#">27</a>	270	0	5.1	259	22.8	81	98	63	14	22	8	25	52	0.00
<a href="#">28</a>	271	0	11.8	136	26.8	83	98	67	23	29	11	40	58	0.00
<a href="#">29</a>	272	0	8.3	212	23.0	83	96	68	22	46	8	36	56	0.00
<a href="#">30</a>	273	0	5.2	259	18.1	78	93	61	17	29	8	28	52	0.00

**MONTHLY STATISTICS**

	Total Solar Rad. ly.	Ave. Wind mph	V. Dir. Deg	Max. Wind mph	Air Temperature Mean Deg. Fahrenheit	Max Fahrenheit	Min Fahrenheit	Humidity Mean Percent	Max Percent	Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb Fahrenheit	Total Precip. inches
Total	15												0.47
Ave.	0	7.4	194	24.6	82.3	96.7	67.4	24	41	12	38	57	
Max.	5	14.1		36.3	96	114	80	52	85	37	60	66	0.47
Min.	0	4.7		14.4	71	85	57	12	20	5	21	49	0.00

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

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