

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

May 17, 2021

MEMORANDUM

To: Beatty File

From: Haley Brown, Radiation Control Specialist *HB*

Subject: Beatty Inspection Summary May 17, 2021

An inspection of the Beatty Low-Level Radioactive Waste landfill (closed) was conducted on May 17, 2021 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:

All of the postings along the interior boundary are adequate.

Rain Since Last Inspection:

February – 0.00”, March – 0.05”, April – 0.17”, and May – 0.00” as of May 16, 2021.

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: 11 – 14 urem/hr

Value used for twice background: 28 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.

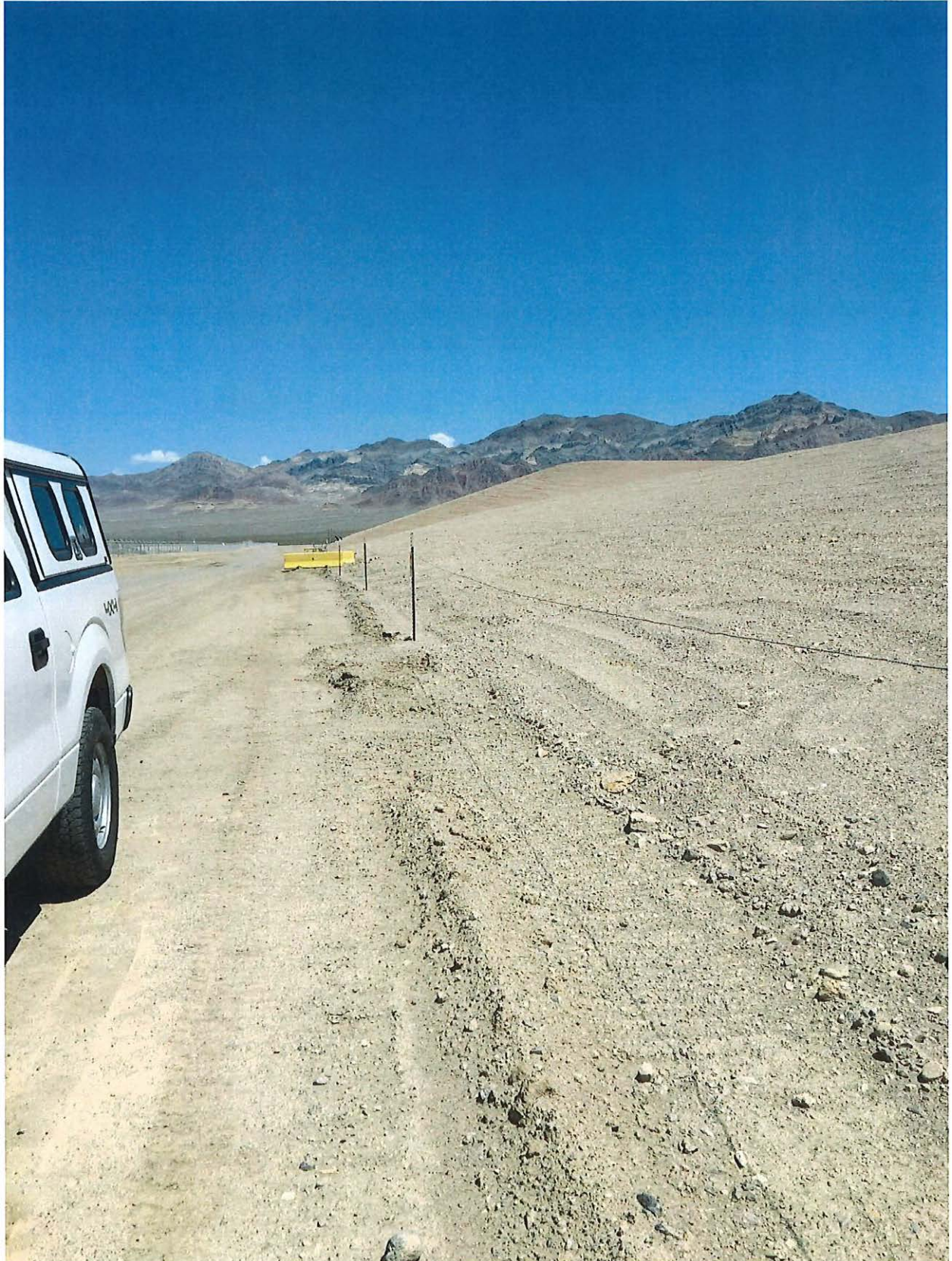
For any reading above 0.5 mrem/hr contact a supervisor or the State of Nevada Radiation Control Program Manager. (Site Stabilization and Closure Plan Closure Plan for Low-Level Radioactive Waste Management Facility US Ecology, Inc. Beatty, Nevada, submittal date December 1988.)

Contacts:	Karen Beckley:	775-687-7540, kbeckley@health.nv.gov
	Glen Gimenez:	775-687-7542, glgimenez@health.nv.gov
	John Follette:	702-486-3017, jfollette@health.nv.gov
	Haley Brown:	702-486-3015, habrown@health.nv.gov

Caution RAM Boundary Sign



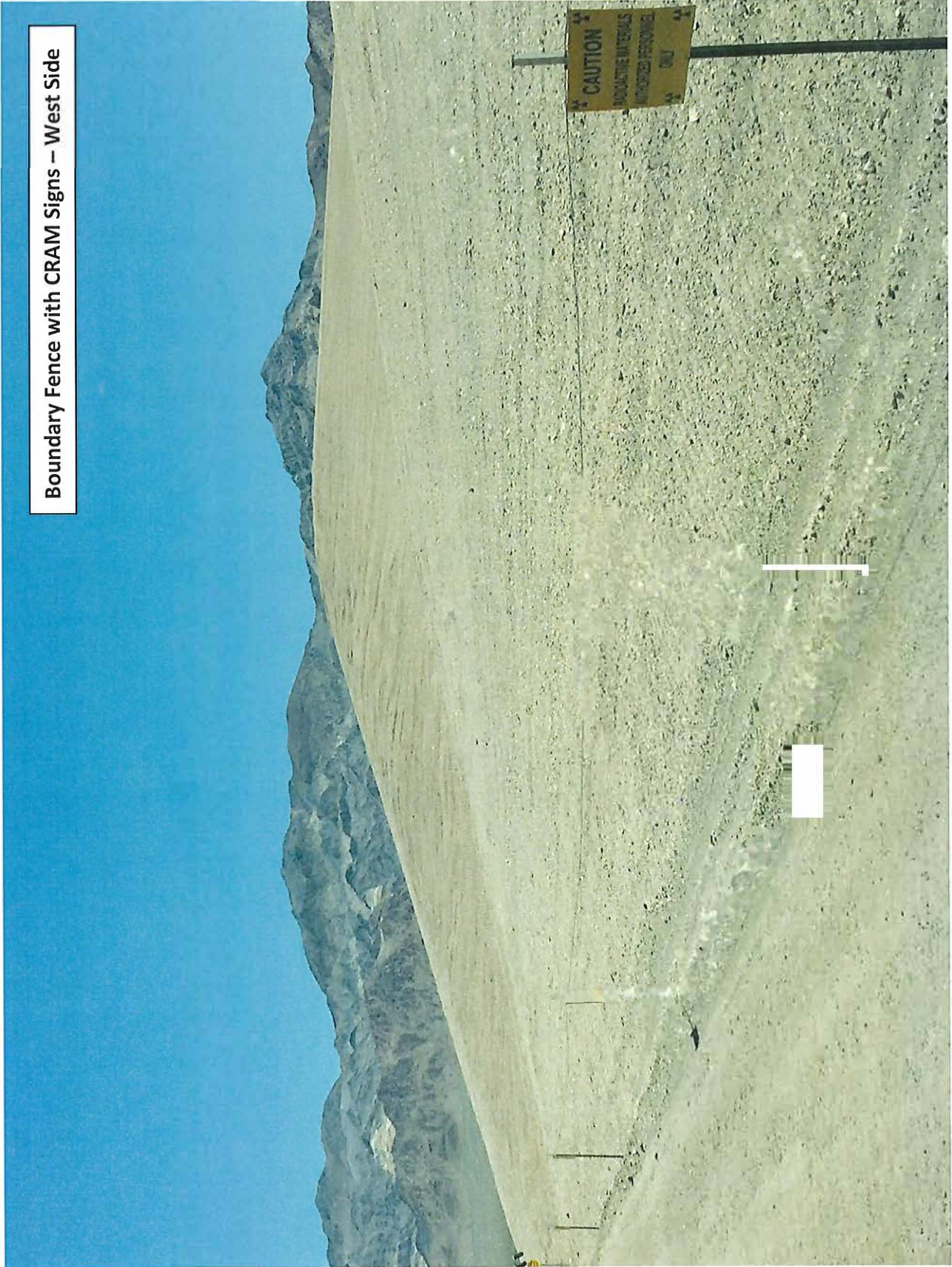
Cap Boundary Fence – West Side



Interior Cap Boundary with Perimeter Fence



Boundary Fence with CRAM Signs – West Side





Station Summary

Beatty 11SSE US Ecology Nevada

Monthly Summary for

February, 2021

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
1	32	206	5.9	247	17.6	49	59	42	44	65	23	27	39	0.00
2	33	350	5.3	262	17.7	52	69	35	47	70	27	31	41	0.00
3	34	312	11.9	337	35.2	52	65	38	37	71	16	24	40	0.00
4	35	368	16.7	333	33.7	48	58	38	27	44	13	14	35	0.00
5	36	371	15.5	329	40.6	55	71	41	21	33	6	14	38	0.00
6	37	378	5.3	324	23.2	54	71	41	26	46	9	17	38	0.00
7	38	386	6.6	314	22.7	53	71	38	19	40	4	7	36	0.00
8	39	289	4.8	234	12.8	51	65	36	18	27	8	8	35	0.00
9	40	213	5.3	237	14.3	54	62	45	22	33	14	16	38	0.00
10	41	355	10.1	322	27.1	55	67	43	34	52	23	26	41	0.00
11	42				14.8		65	40		57	24			
12	43	349	12.7	328	38.1	53	65	41	41	70	24	29	42	0.00
13	44	304	18.4	332	62.1	50	63	41	37	63	14	24	39	0.00
14	45	361	15.9	337	46.3	47	56	39	29	44	14	16	35	0.00
15	46	294	4.7	250	15.1	48	59	38	32	46	20	19	36	0.00
16	47	405	23.3	333	50.3	51	58	41	24	46	14	14	36	0.00
17	48	415	16.9	333	37.6	46	52	38	25	36	16	11	33	0.00
18	49	418	7.7	282	24.9	43	56	31	23	38	12	7	31	0.00
19	50	426	5.0	267	13.3	45	63	30	21	34	10	5	31	0.00
20	51	424	16.2	325	52.4	46	57	28	24	36	10	10	33	0.00
21	52	433	14.0	323	29.2	49	61	37	27	46	13	15	35	0.00
22	53	430	7.5	314	28.0	53	70	40	24	34	15	17	38	0.00
23	54	382	16.1	322	41.0	57	69	41	20	38	8	14	39	0.00
24	55	454	16.8	339	56.8	53	71	40	13	22	6	1	35	0.00
25	56	461	15.1	326	39.1	44	58	33	14	27	5	-5	30	0.00
26	57	465	10.0	300	43.2	51	68	36	12	20	5	-2	34	0.00
27	58	456	24.6	341	49.3	47	53	39	20	29	11	7	33	0.00
28	59	459	8.9	340	21.7	42	59	31	21	35	10	3	30	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Ave. V. mph	Wind Dir. Deg	Max. mph	Air Temperature Mean Deg. Fahrenheit	Max	Min	Humidity Mean Percent	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb Fahrenheit	Total Precip. inches
Total	10164												0.00
Ave.	376	11.9	323	32.4	49.9	62.9	37.8	26	43	13	14	36	
Max.	465	24.6		62.1	57	71	45	47	71	27	31	42	0.00
Min.	206	4.7		12.8	42	52	28	12	20	4	-5	30	0.00

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

$^{\circ} 1 \text{ ly} = 1 \text{ cal/cm}^2 = 4.1855 \text{ J/cm}^2 = 3.6855 \text{ BTU/ft}^2 = .01163 \text{ KW-hr/m}^2$

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Station Summary

Beatty 11SSE US Ecology Nevada

Monthly Summary for

March, 2021

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Deg	Max. mph	Air Temperature Mean Deg. Fahrenheit	Max	Min	Humidity Mean Percent	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
1	60	472	6.6	260	20.3	45	61	28	17	30	8	1	30	0.00
2	61	454	5.7	279	16.5	49	67	31	15	26	7	2	33	0.00
3	62	297	8.1	205	26.5	50	65	34	19	43	9	7	35	0.00
4	63	472	5.8	246	19.5	50	67	32	35	62	15	21	37	0.00
5	64	481	4.9	257	14.6	56	75	37	23	44	8	16	39	0.00
6	65	369	6.8	216	24.2	57	71	42	18	28	10	13	39	0.00
7	66	358	7.5	158	19.1	56	68	39	23	31	16	18	40	0.00
8	67	480	8.9	154	24.6	57	70	42	27	43	15	22	41	0.00
9	68	175	7.8	128	20.9	50	60	36	26	38	15	16	36	0.00
10	69	31	13.4	153	28.6	46	57	38	37	60	17	20	35	0.00
11	70		8.7	139	23.6	41	51	35	53	65	32	24	34	0.00
12	71	164	8.9	359	32.1	40	50	31	64	91	36	28	35	0.05
13	72	34	13.0	317	38.8	48	63	32	34	93	11	15	35	0.00
14	73	77	8.0	157	20.4	54	65	37	23	38	14	16	38	0.00
15	74	15	19.0	142	50.5	48	61	34	41	76	22	24	38	0.00
16	75	49	12.6	353	38.9	50	63	39	38	64	24	25	39	0.00
17	76	41	5.9	207	19.2	52	66	34	37	67	20	24	39	0.00
18	77	189	6.6	158	20.0	59	72	46	24	42	13	21	42	0.00
19	78	98	9.5	213	31.3	61	77	41	26	38	17	26	44	0.00
20	79	4	15.3	20	39.4	59	69	47	29	62	9	23	43	0.00
21	80	53	16.6	338	35.8	51	60	42	23	38	11	13	36	0.00
22	81	27	10.3	299	39.9	53	66	37	24	38	12	16	38	0.00
23	82	19	25.4	340	49.0	51	57	45	30	47	19	20	38	0.00
24	83	12	12.4	301	40.7	52	66	40	21	35	8	10	36	0.00
25	84	0	11.9	77	38.2	53	66	39	21	36	11	13	37	0.00
26	85	3	19.9	340	38.6	54	65	43	24	39	10	16	38	0.00
27	86	31	11.0	303	28.6	58	75	44	19	31	10	15	40	0.00
28	87	247	4.8	262	18.5	62	80	42	16	30	8	14	41	0.00
29	88	177	10.8	277	44.9	64	82	43	14	26	4	11	42	0.00

30	89	53	15.0	332	44.3	57	69	46	10	21	4	-1	37	0.00
31	90	102	4.5	181	14.4	58	78	41	10	19	4	-0	37	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	4986												0.05
Ave.	166	10.5	288	29.8	52.9	66.5	38.6	27	45	13	16	38	
Max.	481	25.4		50.5	64	82	47	64	93	36	28	44	0.05
Min.	0	4.5		14.4	40	50	28	10	19	4	-1	30	0.00

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

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Station Summary

Beatty 11SSE US Ecology Nevada

Monthly Summary for

April, 2021

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 Percent	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches	
1	91	205	4.9	225	20.6	63	83	41	8	14	4	-1	40	0.00
2	92	342	4.9	255	15.8	67	88	46	8	14	4	2	42	0.00
3	93	93	6.2	260	17.4	69	89	49	10	17	4	7	44	0.00
4	94	166	5.6	272	17.1	70	89	49	9	16	4	6	44	0.00
5	95	215	14.1	299	45.1	70	86	49	10	16	5	10	44	0.00
6	96	19	12.8	321	30.8	66	79	53	10	14	6	7	42	0.00
7	97	184	6.1	198	19.3	67	84	47	11	17	5	8	43	0.00
8	98	0	16.8	329	31.9	70	81	57	9	18	3	6	44	0.00
9	99	5	8.1	292	29.1	69	83	53	10	16	5	8	44	0.00
10	100	0	14.6	319	34.2	69	82	51	9	16	3	6	44	0.00
11	101	2	12.1	306	30.2	72	86	57	9	14	6	9	45	0.00
12	102	0	13.9	303	35.4	71	85	57	9	13	5	8	44	0.00
13	103	1	11.3	178	36.5	70	85	55	11	23	6	11	45	0.00
14	104	16	17.5	325	42.1	60	73	51	23	36	11	21	43	0.00
15	105	105	12.1	316	33.0	60	73	47	19	38	7	15	41	0.00
16	106	54	8.5	345	33.4	63	74	46	17	26	11	16	42	0.00
17	107	3	9.7	35	35.8	62	71	52	18	34	8	16	42	0.00
18	108	0	11.8	342	28.8	65	79	51	10	19	3	3	41	0.00
19	109	20	7.5	271	27.3	69	86	48	8	13	4	3	43	0.00
20	110	1	10.1	150	30.4	70	86	52	11	26	6	12	45	0.00
21	111	4	13.8	20	30.5	65	74	55	24	33	14	26	46	0.00
22	112	0	12.8	319	30.6	66	78	51	16	37	4	13	44	0.00
23	113	0	10.3	274	25.0	70	83	54	13	19	9	16	46	0.00
24	114	5	13.7	140	27.2	69	86	59	23	38	10	28	48	0.00
25	115	0	12.8	159	32.7	63	74	55	24	36	14	25	45	0.00
26	116	18	10.0	90	39.5	55	68	43	45	82	23	33	44	0.17
27	117	32	15.3	333	33.1	57	68	44	35	75	11	25	42	0.00
28	118	0	17.1	329	37.8	68	82	53	16	30	6	17	45	0.00
29	119	29	8.9	295	30.4	76	92	61	14	24	8	23	50	0.00

30	120	154	4.8	236	21.1	80	96	58	14	29	6	24	51	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	1672													0.17
Ave.	56	10.9	306	30.1	67.1	81.5	51.5	15	27	7	13	44		
Max.	342	17.5		45.1	80	96	61	45	82	23	33	51	0.17	
Min.	0	4.8		15.8	55	68	41	8	13	3	-1	40	0.00	

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Station Summary


Beatty 11SSE US Ecology Nevada

Monthly Summary for

May, 2021

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	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	
1	121	14	9.2	144	23.9	80	93	67	12	21	6	22	51	0.00
2	122	0	22.8	339	44.6	72	79	64	17	30	10	24	48	0.00
3	123	3	15.6	334	38.0	69	81	56	16	29	7	18	46	0.00
4	124	7	6.0	235	20.3	74	89	57	10	17	6	14	47	0.00
5	125	5	6.0	191	20.5	79	95	58	11	18	6	18	50	0.00
6	126	0	10.3	183	33.8	80	95	59	12	22	5	21	51	0.00
7	127	0	9.7	149	28.5	79	90	67	15	25	8	26	52	0.00
8	128	0	19.7	329	38.1	74	82	65	9	16	4	10	46	0.00
9	129	0	9.0	299	27.6	73	87	61	9	13	6	10	46	0.00
10	130	0	17.6	333	33.5	74	84	62	11	18	5	15	47	0.00
11	131	0	8.1	283	35.4	74	88	60	9	15	6	11	46	0.00
12	132	4	6.7	186	24.1	78	95	57	9	15	5	13	49	0.00
13	133	34	6.9	205	22.5	81	96	59	11	18	7	20	51	0.00
14	134	21	8.1	197	24.4	81	95	62	11	18	5	20	51	0.00
15	135	0	16.9	133	34.8	77	91	64	16	37	3	23	51	0.00
16	136	23	9.9	297	35.1	68	80	56	32	46	20	37	51	0.00
17	137				30.5		88	61		42	14			
18	138													
19	139													
20	140													
21	141													
22	142													
23	143													
24	144													
25	145													
26	146													
27	147													
28	148													
29	149													

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MONTHLY STATISTICS

	Total Solar Rad. ly.	Ave. V. mph	Wind Dir. Deg	Max. mph	Air Temperature Mean Deg. Fahrenheit	Max	Min	Humidity Mean	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	110												0.00
Ave.	7	11.4	279	30.3	76.0	88.8	60.9	13	24	7	19	49	
Max.	34	22.8		44.6	81	96	67	32	46	20	37	52	0.00
Min.	0	6.0		20.3	68	79	56	9	13	3	10	46	0.00

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

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