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June 17, 2020

MEMORANDUM

To: Beatty File  
From: Haley Brown, Radiation Control Specialist *HB*  
Subject: Beatty Inspection Summary May 19, 2020

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An inspection of the Beatty Low-Level Radioactive Waste landfill (closed) was conducted on May 19, 2020 by Haley Brown. The radiological survey was performed by driving the BNC Model SAMpack-120 (BSN 120064) backpack around the site boundary access road and 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 at 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, inside of the fenced area.

**Radiological Postings Adequate:**

All of the postings along the fence are adequate. However, we may want to add additional radiological postings to the new gate.

**Site Observations:**

**Radiological Postings Adequate:**

All of the postings along the fence are adequate. However, we may want to add additional radiological postings to the new gate.

Site Boundary Fence Undamaged and Gate(s) Locked: Yes

Site Boundary, Access Road, and Buffer Areas Maintained: Yes

**Rain Since Last Inspection:**

February – 0.25”, March – 1.10”, April – 1.26”, and May – 0.00” as of May 18, 2020.

**Erosion, Fissures, Water Pooling, or Subsidence Concerns:**

- Along the East and West sides of the site boundary fence, there are 3 areas of minor erosion due to runoff from the cap. Erosion along the site boundary fence indicates that water is running off the cap efficiently and there is no evidence of water-pooling on the surface of the cap in these areas. Pictures of the erosion are included in this report. These areas will continue to be monitored during future inspections.
- May 15, 2020, there was a 6.5 magnitude earthquake near Tonopah, Nevada, which is about 100 miles from the site. There was no apparent damage to the site or site boundary as a result of this earthquake.

**Radiation Survey Results:**

Instrument: BNC Model SAMpack-120 (BSN 120064)      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 - 22 urem/hr

Value used for twice background: 44 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.)

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Back to:



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To print data frame (right side), click on right frame before printing.

- [Daily Summary](#)
- [Daily Summary \(with Wind Chill and Heat Index\)](#)
- [Daily Summary Time Series](#)
- [Monthly Summary](#)
- [Monthly Summary \(w/ Et data\)](#)
- [Monthly Summary Time Series](#)
- [Graph of last 7 days](#)
- [Time Series Graph](#)
- [Wind Rose Graph and Tables](#)
- [Wind Stability/Wind Rose Graph and Tables](#)
- [Frequency Distribution/Histogram](#)
- [Data Lister](#)
- [Data Inventory \(Monthly Graphic\)](#)
- [Station Metadata and Photos](#)
- [Current 7-day forecast \(NWS\) \(May not work correctly for some Central and Southern U.S. states.\)](#)

Western Regional Climate Center,  
[wrc@dr.edu](mailto:wrc@dr.edu)



## Beatty 11SSE US Ecology Nevada

Monthly Summary for

**February, 2020**

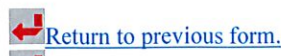
Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. Dir. mph	Wind Max. Dir. mph	Air Temperature Mean Deg. Fahrenheit	Air Temperature Max Min	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
1	32	352	4.1	265	12.5	55 74 39	35 55 16	25	41	0.00
2	33	346	13.5	285	73.8	51 70 38	34 54 16	22	38	0.00
3	34	366	28.1	339	68.5	36 40 31	23 34 14	1	25	0.00
4	35	363	20.4	333	38.8	36 44 27	21 28 12	0	25	0.00
5	36	325	11.8	331	36.4	47 62 30	28 42 17	15	34	0.00
6	37	369	18.1	328	46.3	58 71 45	30 51 14	25	43	0.00
7	38	377	12.2	333	32.0	57 72 44	20 39 7	14	39	0.00
8	39	377	6.1	278	34.1	53 69 35	21 32 11	13	37	0.00
9	40	214	16.8	342	40.2	48 53 43	23 28 19	12	34	0.00
10	41	383	22.4	323	44.4	50 60 41	18 25 8	7	34	0.00
11	42	388	13.3	348	30.8	50 62 39	20 32 9	8	35	0.00
12	43	396	10.6	321	27.7	52 66 41	21 30 12	13	36	0.00
13	44	396	4.1	254	12.8	49 67 32	25 42 12	13	35	0.00
14	45	391	5.5	267	15.7	48 66 32	26 42 13	13	35	0.00
15	46	379	4.5	267	13.8	51 67 36	26 41 13	16	37	0.00
16	47	299	5.4	277	22.6	53 70 38	30 43 18	21	39	0.00
17	48	392	17.5	325	31.9	57 67 49	20 34 7	13	40	0.00
18	49	371	5.1	133	21.9	48 61 38	20 29 12	8	33	0.00
19	50	413	4.9	272	14.0	50 68 33	21 35 11	10	34	0.00
20	51	422	5.0	221	19.8	50 66 35	19 32 9	8	35	0.00
21	52	341	4.6	290	12.2	53 70 35	19 30 11	11	37	0.00
22	53	125	7.5	308	21.0	51 59 46	64 92 19	37	44	0.25
23	54	433	5.8	343	22.0	54 69 41	57 95 16	35	44	0.00
24	55	446	13.7	325	35.9	57 67 44	23 66 6	14	40	0.00
25	56	453	13.8	339	31.0	55 67 43	13 32 7	4	37	0.00
26	57	454	4.1	248	11.4	50 67 34	24 42 9	12	35	0.00
27	58	441	3.9	269	13.5	55 75 38	25 43 9	17	39	0.00
28	59	363	4.2	266	12.9	57 72 44	25 44 11	19	40	0.00
29	60	378	5.2	156	16.6	58 71 46	23 38 13	19	41	0.00

**MONTHLY STATISTICS**

	Total Solar Rad. ly.	Wind Ave. V. Dir. mph	Wind Max. Dir. mph	Air Temperature Mean Deg. Fahrenheit	Air Temperature Max Min	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	10750								0.25
Ave.	371	10.1	314	28.1	51.4 65.2 38.5	26 42 12	15	37	
Max.	454	28.1		73.8	58 75 49	64 95 19	37	44	0.25
Min.	125	3.9		11.4	36 40 27	13 25 6	0	25	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>



Back to:



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To print data frame (right side), click on right frame before printing.

- [Daily Summary](#)
- [Daily Summary \(with Wind Chill and Heat Index\)](#)
- [Daily Summary Time Series](#)
- [Monthly Summary](#)
- [Monthly Summary \(w/ Et data\)](#)
- [Monthly Summary Time Series](#)
- [Graph of last 7 days](#)
- [Time Series Graph](#)
- [Wind Rose Graph and Tables](#)
- [Wind Stability/Wind Rose Graph and Tables](#)
- [Frequency Distribution/Histogram](#)
- [Data Lister](#)
- [Data Inventory \(Monthly Graphic\)](#)
- [Station Metadata and Photos](#)
- [Current 7-day forecast \(NWS\) \(May not work correctly for some Central and Southern U.S. states.\)](#)

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# Station Summary

## Beatty 11SSE US Ecology Nevada

Monthly Summary for

**March, 2020**

Day of Month	Day of 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. Deg. Fahrenheit	Humidity Mean Percent	Humidity Max Percent	Humidity Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb Precip. inches	Total Precip. inches	
<a href="#">1</a>	61	272	18.9	56	42.2	49	62	41	46	76	23	28	39	0.00
<a href="#">2</a>	62	477	23.7	342	42.7	49	60	41	26	40	12	14	35	0.00
<a href="#">3</a>	63	469	19.0	326	44.8	58	71	45	25	34	18	21	41	0.00
<a href="#">4</a>	64	469	6.8	153	23.4	60	76	48	29	44	15	26	44	0.00
<a href="#">5</a>	65	448	5.6	255	18.8	60	77	44	29	50	11	25	43	0.00
<a href="#">6</a>	66	424	7.0	212	21.0	61	78	44	25	44	13	23	43	0.00
<a href="#">7</a>	67	315	13.6	150	31.9	59	68	45	28	49	11	24	42	0.00
<a href="#">8</a>	68	488	7.1	142	17.1	52	64	36	37	68	23	26	40	0.00
<a href="#">9</a>	69	397	6.1	146	18.1	55	65	42	30	51	18	23	40	0.00
<a href="#">10</a>	70	229	7.2	164	25.7	54	63	45	49	92	32	34	44	0.06
<a href="#">11</a>	71	396	4.3	281	14.6	56	68	48	70	92	34	45	50	0.12
<a href="#">12</a>	72	335	6.6	72	42.2	57	71	44	55	91	21	38	47	0.01
<a href="#">13</a>	73	88	12.2	141	24.1	50	54	48	83	95	67	45	47	0.07
<a href="#">14</a>	74	271	15.0	148	36.7	53	64	46	59	80	33	38	45	0.00
<a href="#">15</a>	75	370	16.4	152	36.8	53	64	45	49	72	26	33	43	0.00
<a href="#">16</a>	76	353	15.5	148	35.7	51	59	42	53	77	34	33	42	0.00
<a href="#">17</a>	77	558	12.0	155	34.3	48	59	41	42	75	14	23	38	0.02
<a href="#">18</a>	78	535	5.3	237	17.6	46	59	31	39	70	18	20	35	0.00
<a href="#">19</a>	79	374	8.6	183	27.8	44	55	34	54	83	32	27	36	0.01
<a href="#">20</a>	80	377	4.2	225	17.6	47	60	38	58	89	21	31	39	0.00
<a href="#">21</a>	81	518	4.8	262	16.7	51	65	38	42	70	20	27	40	0.00
<a href="#">22</a>	82	413	4.5	228	18.1	53	66	38	41	65	24	29	41	0.00
<a href="#">23</a>	83	378	5.1	176	18.9	53	63	44	64	92	36	40	46	0.70
<a href="#">24</a>	84	433	10.1	141	21.9	54	68	46	53	72	31	36	45	0.00
<a href="#">25</a>	85	523	11.5	158	28.2	52	64	44	43	68	19	29	41	0.00
<a href="#">26</a>	86	468	10.9	299	30.1	45	57	40	55	82	25	29	37	0.11
<a href="#">27</a>	87	581	11.2	324	27.5	48	60	38	31	75	14	16	35	0.00
<a href="#">28</a>	88	390	5.0	185	24.6	49	60	34	36	67	17	22	37	0.00
<a href="#">29</a>	89	356	7.3	331	29.0	50	58	41	54	78	37	34	42	0.00
<a href="#">30</a>	90	575	4.5	246	15.8	54	70	37	46	81	21	31	43	0.00
<a href="#">31</a>	91	582	5.3	215	16.7	60	76	43	37	66	17	31	45	0.00

**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. Deg. Fahrenheit	Humidity Mean Percent	Humidity Max Percent	Humidity Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb Precip. inches	Total Precip. inches
Total	12863											1.10
Ave.	415	9.5	180	26.5	52.6	64.6	41.5	45	71	24	29	42
Max.	582	23.7		44.8	61	78	48	83	95	67	45	50
Min.	88	4.2		14.6	44	54	31	25	34	11	14	35

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

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Back to:



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To print data frame (right side), click on right frame before printing.

- [Daily Summary](#)
- [Daily Summary \(with Wind Chill and Heat Index\)](#)
- [Daily Summary Time Series](#)
- [Monthly Summary](#)
- [Monthly Summary \(w/ Et data\)](#)
- [Monthly Summary Time Series](#)
- [Graph of last 7 days](#)
- [Time Series Graph](#)
- [Wind Rose Graph and Tables](#)
- [Wind Stability/Wind Rose Graph and Tables](#)
- [Frequency Distribution/Histogram](#)
- [Data Lister](#)
- [Data Inventory \(Monthly Graphic\)](#)
- [Station Metadata and Photos](#)
- [Current 7-day forecast \(NWS\) \(May not work correctly for some Central and Southern U.S. states.\)](#)

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## Beatty 11SSE US Ecology Nevada

Monthly Summary for

**April, 2020**

Day of Month	Day of 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 Deg. Fahrenheit	Humidity Mean Percent	Humidity Max Percent	Humidity Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches	
<a href="#">1</a>	92	587	7.4	240	27.6	63	78	45	34	60	16	31	46	0.00
<a href="#">2</a>	93	600	15.1	321	35.4	55	64	45	20	33	9	13	38	0.00
<a href="#">3</a>	94	533	3.8	238	14.0	56	71	39	21	37	9	15	39	0.00
<a href="#">4</a>	95	588	9.0	175	26.5	58	72	41	28	48	15	23	42	0.00
<a href="#">5</a>	96	444	17.0	151	37.2	58	69	50	39	58	21	32	45	0.00
<a href="#">6</a>	97	126	11.8	139	26.4	50	56	47	69	89	40	40	45	0.29
<a href="#">7</a>	98	310	5.2	238	23.1	50	61	42	72	90	46	41	45	0.53
<a href="#">8</a>	99	319	10.7	106	43.2	52	67	43	67	89	21	40	45	0.05
<a href="#">9</a>	100	548	6.5	158	17.7	49	59	41	61	91	32	35	42	0.00
<a href="#">10</a>	101	301	4.5	277	20.6	51	61	44	61	86	34	37	44	0.00
<a href="#">11</a>	102	615	7.7	156	26.0	59	75	42	51	89	20	38	48	0.00
<a href="#">12</a>	103	427	6.9	306	34.6	60	72	47	47	83	17	36	47	0.00
<a href="#">13</a>	104	633	17.0	335	35.0	60	69	46	15	36	8	11	40	0.00
<a href="#">14</a>	105	648	11.3	316	25.4	55	70	43	16	47	6	8	37	0.00
<a href="#">15</a>	106	636	7.8	255	22.7	62	76	45	21	45	10	19	43	0.00
<a href="#">16</a>	107	499	6.5	307	26.3	64	78	47	31	52	17	31	47	0.00
<a href="#">17</a>	108	399	10.4	317	31.2	61	74	50	43	88	21	36	48	0.39
<a href="#">18</a>	109	510	3.4	244	13.1	58	72	47	60	87	31	43	49	0.00
<a href="#">19</a>	110	585	6.0	218	20.6	62	76	46	50	84	23	41	50	0.00
<a href="#">20</a>	111	434	7.6	242	30.9	62	75	52	42	60	23	38	49	0.00
<a href="#">21</a>	112	538	7.6	325	33.2	64	77	54	46	78	22	41	51	0.00
<a href="#">22</a>	113	651	11.9	312	26.8	72	85	59	23	44	12	31	50	0.00
<a href="#">23</a>	114	633	19.0	334	47.6	74	84	60	21	41	8	29	51	0.00
<a href="#">24</a>	115	662	13.4	324	46.6	75	88	61	14	23	10	23	49	0.00
<a href="#">25</a>	116	623	5.6	166	19.6	77	91	58	20	38	12	31	52	0.00
<a href="#">26</a>	117	553	6.0	266	18.9	75	90	59	24	47	10	33	52	0.00
<a href="#">27</a>	118	656	7.0	311	23.6	77	93	57	20	40	8	30	52	0.00
<a href="#">28</a>	119	664	8.0	307	29.6	82	97	68	17	27	11	33	55	0.00
<a href="#">29</a>	120	557	7.9	205	24.3	82	97	62	20	39	11	35	55	0.00
<a href="#">30</a>	121	646	8.9	157	23.8	83	95	69	19	33	9	36	56	0.00

**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 Deg. Fahrenheit	Humidity Mean Percent	Humidity Max Percent	Humidity Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	15923											1.26
Ave.	531	9.0	286	27.7	63.5	76.5	50.3	36	59	18	31	47
Max.	664	19.0		47.6	83	97	69	72	91	46	43	56
Min.	126	3.4		13.1	49	56	39	14	23	6	8	37

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>



Back to:



NOTE:

To print data frame (right side), click on right frame before printing.

- [Daily Summary](#)
- [Daily Summary \(with Wind Chill and Heat Index\)](#)
- [Daily Summary Time Series](#)
- [Monthly Summary](#)
- [Monthly Summary \(w/ Et data\)](#)
- [Monthly Summary Time Series](#)
- [Graph of last 7 days](#)
- [Time Series Graph](#)
- [Wind Rose Graph and Tables](#)
- [Wind Stability/Wind Rose Graph and Tables](#)
- [Frequency Distribution/Histogram](#)
- [Data Lister](#)
- [Data Inventory \(Monthly Graphic\)](#)
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### Beatty 11SSE US Ecology Nevada

Monthly Summary for

**May, 2020**

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. Dir. mph Deg	Air Temperature Mean Max Min Deg. Fahrenheit	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
<a href="#">1</a>	122	652	7.6 265 25.9	78 90 63	17 33 10	29	52	0.00
<a href="#">2</a>	123	681	7.7 161 22.6	76 89 59	16 28 7	25	50	0.00
<a href="#">3</a>	124	670	11.1 218 44.5	75 87 55	16 33 7	24	50	0.00
<a href="#">4</a>	125	704	12.2 321 32.7	72 86 58	11 17 4	13	46	0.00
<a href="#">5</a>	126	709	5.5 247 19.3	75 92 51	10 21 4	12	47	0.00
<a href="#">6</a>	127	638	9.0 308 30.1	79 97 57	10 20 4	13	49	0.00
<a href="#">7</a>	128	704	10.2 298 32.0	80 95 65	8 14 5	13	49	0.00
<a href="#">8</a>	129	706	5.8 258 19.9	79 96 57	10 20 5	17	49	0.00
<a href="#">9</a>	130	696	6.1 204 22.5	83 98 64	10 17 4	19	51	0.00
<a href="#">10</a>	131	653	10.9 184 32.8	82 96 62	13 23 8	26	53	0.00
<a href="#">11</a>	132	702	12.0 146 28.6	77 91 64	12 20 6	19	49	0.00
<a href="#">12</a>	133	697	16.1 138 33.8	70 83 61	22 42 14	28	49	0.00
<a href="#">13</a>	134	679	7.6 170 21.4	69 81 52	28 51 12	32	49	0.00
<a href="#">14</a>	135	696	8.5 264 26.9	72 85 56	20 35 11	27	49	0.00
<a href="#">15</a>	136	702	9.7 301 27.5	75 90 62	20 30 12	31	52	0.00
<a href="#">16</a>	137	632	8.4 177 25.9	80 93 65	17 25 11	30	53	0.00
<a href="#">17</a>	138	702	19.0 151 40.4	80 93 71	17 30 4	28	53	0.00
<a href="#">18</a>	139		28.3	78 64	49 27			
<a href="#">19</a>	140							
<a href="#">20</a>	141							
<a href="#">21</a>	142							
<a href="#">22</a>	143							
<a href="#">23</a>	144							
<a href="#">24</a>	145							
<a href="#">25</a>	146							
<a href="#">26</a>	147							
<a href="#">27</a>	148							
<a href="#">28</a>	149							
<a href="#">29</a>	150							
<a href="#">30</a>	151							
<a href="#">31</a>	152							

MONTHLY STATISTICS

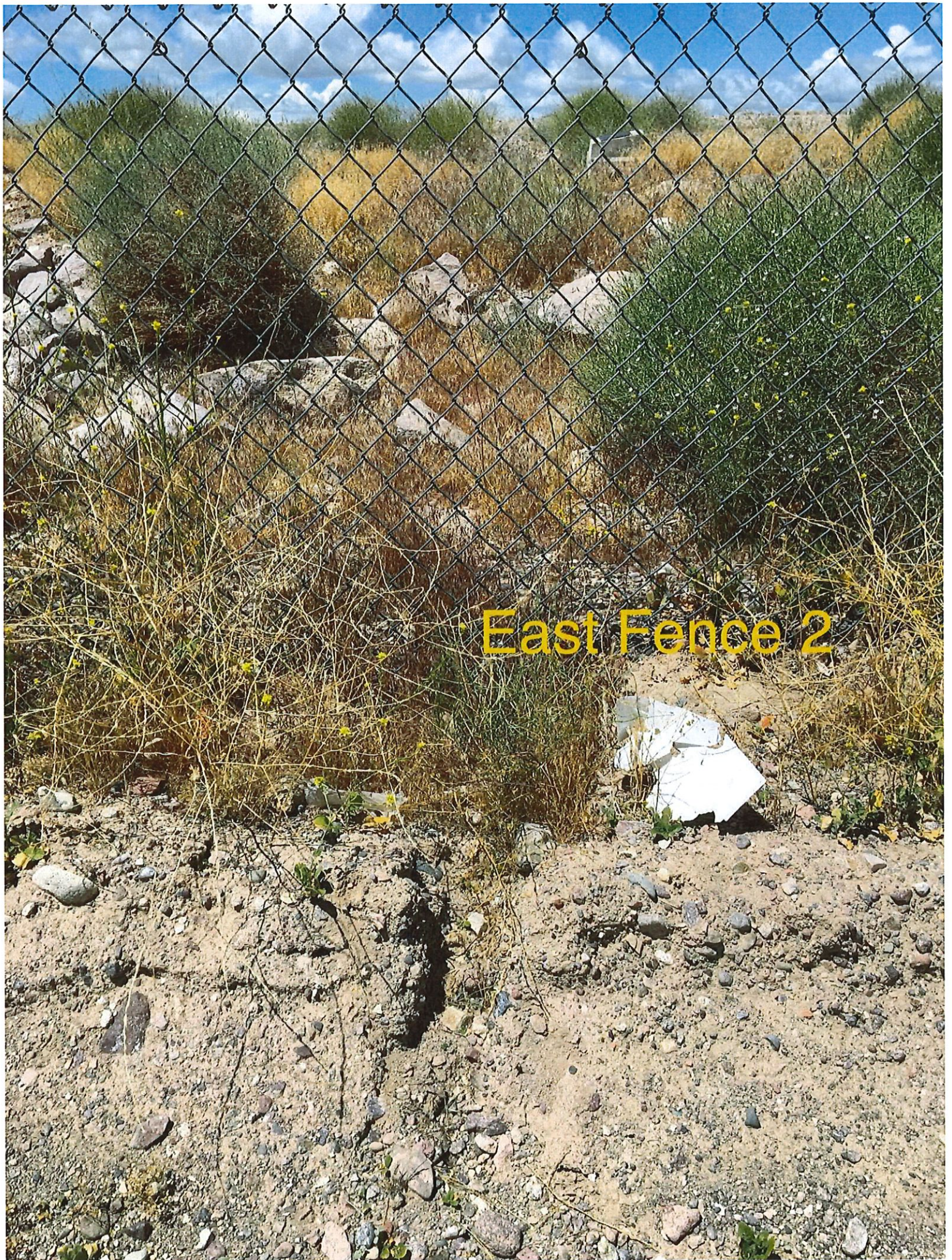
	Total Solar Rad. ly.	Wind Ave. V. Dir. mph Deg	Air Temperature Mean Max Min Deg. Fahrenheit	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	11624						0.00
Ave.	684	9.8 207 28.6	76.6 90.1 60.3	15 28 9	23	50	
Max.	709	19.0 44.5	83 98 71	28 51 27	32	53	0.00
Min.	632	5.5 19.3	69 78 51	8 14 4	12	46	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



West Fence 2



East Fence 2



# East Fence 2 Length Measure

