CJ Interim Completion Report – Addendum N

Appendix A.
Construction Verification Data

Contents

NOTE: Appendices A1 and A4 through A8 are not included as they are not relevant to the period covered in this Addendum.

Appendix A2.
RRM

Standard Proctor Test Results Summary
Lift Approval Summaries
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Appendix A2. RRM Standard Proctor Test Results Summary

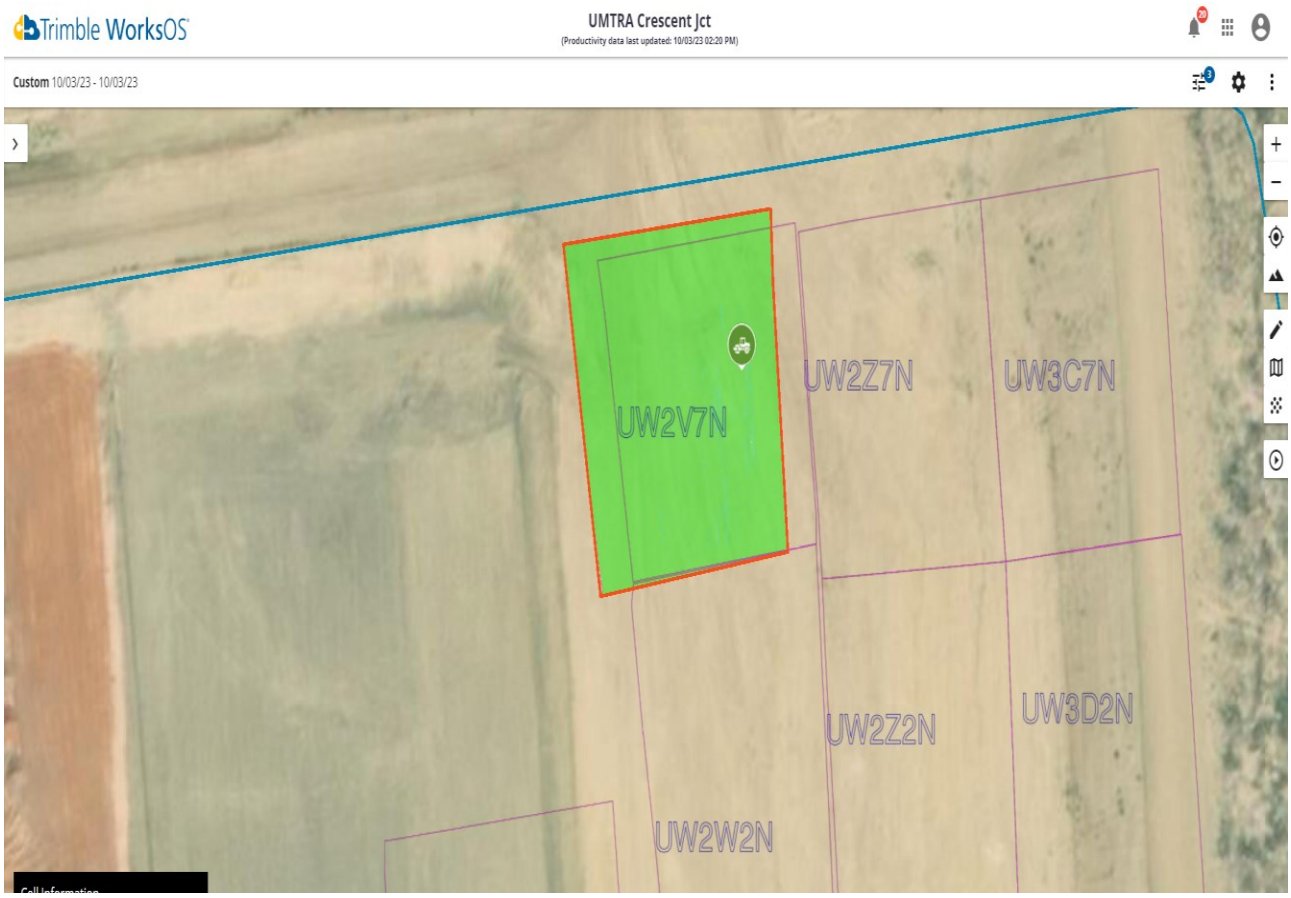
Proctor ID #	Date sampled	Date Approved	Maximum Dry Density (lb/ft^3)	Optimum Moisture Content %	Proctor Description
RRM # 521 (Set # 172)	10/04/2017	10/16/2017	109.3	11.1	Sand stockpile. Red and brown sand mixed w/sweet sugar sand. Approx. 1% clay.
DB3-20200422	4/22/2020	6/8/2020	110.0	16.1	Sandy, lean clay (CL)
DB4-20210707	7/7/2021	7/26/2021	108	17.5	Sandy, lean clay (CL)
DB5-20210408	4/8/2021	5/5/2021	108.5	16.8	Sandy, lean clay (CL)
DB6-20210707	7/7/2021	7/26/2021	105.7	18.6	Sandy, lean clay (CL)
NWL-20200422	4/22/2020	6/2/2020	103.9	15.8	Silty sand (SM)

Appendix A2. RRM Lift Approval Summaries

October 2023										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
10/02/23	UW2R1230927-00	0	4813	4,813	99.9	1.9	N/A	0	0	0
10/03/23	UW2V7N231002-00	0	2578	7,391	99.8	1.9	N/A	0	0	0
10/09/23	UW2W2N231003-00	3	2497	9,888	N/A	1.8	RRM 521/DB5-20210408	3	0	94.5
10/09/23	UW2W3231003-00	3	2101	11,989	N/A	1.9	RRM-521/DB5-20210408	3	0	95.1
10/09/23	UW2R1231003-00	6	4577	16,566	N/A	1.8	DB5-20210408	6	0	94
10/10/23	UW2V7N231009-00	3	2409	18,975	N/A	1.8	DB5-20210408	3	0	93.6
10/11/23	UW2W3231010-00	3	2100	21,075	N/A	1.9	DB5-20210408	3	0	96.4
10/12/23	UW2W2N231009-00	3	2489	23,564	N/A	2.0	DB5-20210408	3	0	94.6
10/17/23	UW2R1231011-00	0	4492	28,056	99.9	1.9	N/A	0	0	0
10/18/23	UW2U7N231016-00	0	2886	30,942	100.0	2.0	N/A	0	0	0
10/18/23	UW2V2N231016-00	0	2964	33,906	99.5	1.8	N/A	0	0	0
10/18/23	UW2W3231016-00	0	2824	36,730	99.9	1.7	N/A	0	0	0
10/23/23	UW2Q1N231019-00	1	6485	43,215	100.0	1.9	DB5-20210408	0	0	0
10/25/23	UW2Z7N231012-00	0	2889	46,104	N/A	2.0	N/A	0	0	0
10/26/23	UW2V2N231023-00	1	2950	49,054	99.8	1.8	DB5-20210408	0	0	0
10/26/23	UW2U7N231023-00	0	2630	51,684	100.0	1.8	N/A	0	0	0
10/26/23	UW2W3231023-00	0	2688	54,372	100.0	1.8	N/A	0	0	0
10/31/23	UW2Q1N231026-00	0	5484	59,856	99.9	1.8	N/A	0	0	0
				Average CBCS Screen Passing Pixels (%) =		99.9				
				Total Quantity Approved (yd^3) =		59,856				
				Total # of Nuclear Density Gauge Tests =		21				
				Total # of Moisture Tests =		23				
				Quantity per Moisture Test (yd^3) =		2,602				
				Total Average Thickness (ft) =		1.9				
UW2Z7N231012-00 2' Sacrificial Lift										

Appendix A2. RRM Lift Approval Summaries (*continued)*

CBCS screen shot example from October 2023. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.



Appendix A2. RRM Lift Approval Summaries (continued)

November 2023										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
11/01/23	UW2Z2N231025-00	0	2843	2,843	N/A	2.0	N/A	0	0	0
11/02/23	UW2W3231031-00	0	2176	5,019	99.9	1.7	N/A	0	0	0
11/02/23	UW2V2N231031-00	0	2953	7,972	99.9	1.8	N/A	0	0	0
11/02/23	UW2U7N231031-00	1	2,325	10,297	99.7	1.6	DB5-20210408	0	0	0
11/07/23	UW2Q1N231102-00	0	5091	15,388	99.9	1.8	N/A	0	0	0
11/08/23	UW2U7N231106-00	0	2649	18,037	99.8	1.8	N/A	0	0	0
11/08/23	UW2V2N231106-00	0	2748	20,785	100.0	1.9	N/A	0	0	0
11/08/23	UW2W3231106-00	0	2230	23,015	100.0	1.9	N/A	0	0	0
11/13/23	UW2Q1N231108-00	1	5134	28,149	100.0	2.0	DB5-20210408	0	0	0
11/14/23	UW1Y20231113-00	0	808	28,957	100.0	1.6	N/A	0	0	0
11/22/23	UW2U2N231114-00	1	4754	33,711	99.5	2.0	NWL-20200422	0	0	0
11/22/23	UW2U7N231114-00	1	2199	35,910	99.7	1.6	RRM-521	0	0	0
11/27/23	UW3C7N231116-00	0	2857	38,767	N/A	2.0	N/A	0	0	0
11/27/23	UW3D2N231120-00	0	2894	41,661	N/A	2.0	N/A	0	0	0
11/27/23	UW2Z2N231115-00	0	2855	44,516	99.9	2.0	N/A	0	0	0
11/27/23	UW2Z7N231115-00	0	2902	47,418	100.0	2.0	N/A	0	0	0
11/28/23	UW3D2231120-00	0	2881	50,299	N/A	2.0	N/A	0	0	0
				Average CBCS Screen Passing Pixels (%) =		99.9				
				Total Quantity Approved (yd^3) =		50,299				
				Total # of Nuclear Density Gauge Tests =		0				
				Total # of Moisture Tests =		4				
				Quantity per Moisture Test (yd^3) =		12,575				
				Total Average Thickness (ft) =		1.9				
UW2Z2N, UW3D2N & UW3C7N 2' Sacrificial Lift										

Appendix A2. RRM Lift Approval Summaries (*continued)*

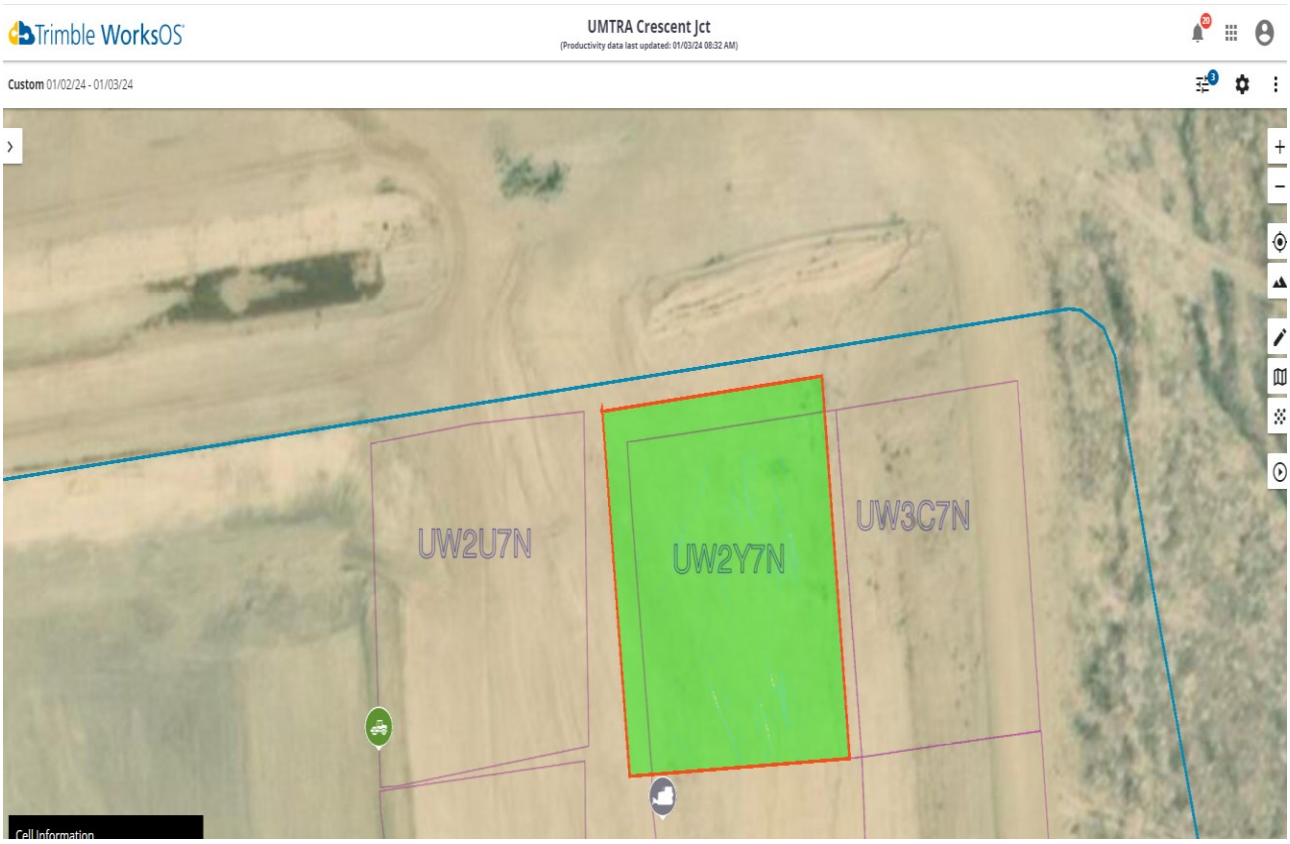
CBCS screen shot example from November 2023. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.

Appendix A2. RRM Lift Approval Summaries (*continued)*

December 2023										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
12/06/23	UW2Z2N231129-00	0	2663	2,663	99.9	1.9	N/A	0	0	0
12/06/23	UW2Q1N231127-00	0	4192	6,855	100.0	1.9	N/A	0	0	0
12/06/23	UW2Z7N231128-00	0	2746	9,601	99.8	1.9	N/A	0	0	0
12/07/23	UW3D2231204-00	1	2835	12,436	100.0	2.0	RRM-521	0	0	0
12/11/23	UW3C7N231129-00	0	2797	15,233	99.9	2.0	N/A	0	0	0
12/11/23	UW3D2N231130-00	1	2812	18,045	99.9	2.0	RRM-521	0	0	0
12/12/23	UW2U2N231204-00	0	3590	21,635	99.9	1.7	N/A	0	0	0
12/18/23	UW2Z2N231211-00	0	2573	24,208	99.6	1.8	N/A	0	0	0
12/18/23	UW2Z7N231207-00	0	2652	26,860	99.9	1.9	N/A	0	0	0
12/19/23	UW3C7N231212-00	0	2724	29,584	99.9	1.9	N/A	0	0	0
12/19/23	UW3D2N231212-00	0	2707	32,291	99.9	1.9	N/A	0	0	0
12/19/23	UW3D2231214-00	0	2670	34,961	99.6	1.9	N/A	0	0	0
12/19/23	UW2Q1N231214-00	0	3078	38,039	100.0	1.8	N/A	0	0	0
12/20/23	UW2Y7N231218-00	1	2855	40,894	100.0	1.8	NWL-20200422	0	0	0
12/20/23	UW2Z2N231218-00	2	2848	43,742	99.8	1.8	RRM-521	0	0	0
12/27/23	UW2Q1N231220-00	0	2267	46,009	99.9	1.3	N/A	0	0	0
12/28/23	UW3C7N231221-00	0	2261	48,270	99.6	1.8	N/A	0	0	0
12/28/23	UW3D2N231226-00	0	2214	50,484	99.8	1.7	N/A	0	0	0
12/28/23	UW3D2231227-00	0	2053	52,537	99.9	1.8	N/A	0	0	0
					Average CBCS Screen Passing Pixels (%) =	99.9				
					Total Quantity Approved (yd^3) =	52,537				
					Total # of Nuclear Density Gauge Tests =	0				
					Total # of Moisture Tests =	5				
					Quantity per Moisture Test (yd^3) =	10,507				
					Total Average Thickness (ft) =	1.8				

Appendix A2. RRM Lift Approval Summaries (*continued*)

CBCS screen shot example from December 2023. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.



Appendix A2. RRM Lift Approval Summaries (*continued*)

January 2024										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
01/03/24	UW2Y7N231227-00	0	2532	2,532	99.9	1.6	N/A	0	0	0
01/03/24	UW2Z2N231228-00	0	2549	5,081	99.5	1.7	N/A	0	0	0
01/04/24	UW2U2N240102-00	1	3894	8,975	100.0	1.7	NWL-20200422	0	0	0
01/15/24	UW2Q1N240103-00	0	4491	13,466	99.9	1.5	N/A	0	0	0
01/15/24	UW3C7N240108-00	0	2661	16,127	100.0	1.9	N/A	0	0	0
01/15/24	UW3D2240109-00	0	2187	18,314	99.5	1.9	N/A	0	0	0
01/15/24	UW3D2N240108-00	0	2703	21,017	99.8	1.9	N/A	0	0	0
01/16/24	UW2Z2N240111-00	0	2390	23,407	98.9	1.7	N/A	0	0	0
01/16/24	UW2Y7N240111-00	0	2776	26,183	100.0	1.7	N/A	0	0	0
01/17/24	UW2Q1N240115-00	1	3736	29,919	100.0	1.4	NWL-20200422	0	0	0
01/23/24	UW3D2240118-00	0	2024	31,943	99.9	1.7	N/A	0	0	0
01/24/24	UW3D2N240117-00	1	2654	34,597	100.0	1.9	DB5-20210408	0	0	0
01/24/24	UW3C7N240117-00	1	2531	37,128	99.0	1.8	NWL-20200422	0	0	0
01/25/24	UW2Z2N240123-00	1	2266	39,394	100.0	1.8	DB5-20210408	0	0	0
01/25/24	UW2Y7N240123-00	1	2842	42,236	100.0	1.8	DB5-20210408	0	0	0
01/29/24	UW3C7N240124-00	0	2396	44,632	99.9	1.9	N/A	0	0	0
01/30/24	UW3D2N240130-00	0	2668	47,300	100.0	1.9	N/A	0	0	0
01/30/24	UW3D2240130-00	0	2510	49,810	100.0	1.9	N/A	0	0	0
					Average CBCS Screen Passing Pixels (%) =	99.8				
					Total Quantity Approved (yd^3) =	49,810				
					Total # of Nuclear Density Gauge Tests =	0				
					Total # of Moisture Tests =	6				
					Quantity per Moisture Test (yd^3) =	8,302				
					Total Average Thickness (ft) =	1.8				

Appendix A2. RRM Lift Approval Summaries (*continued*)

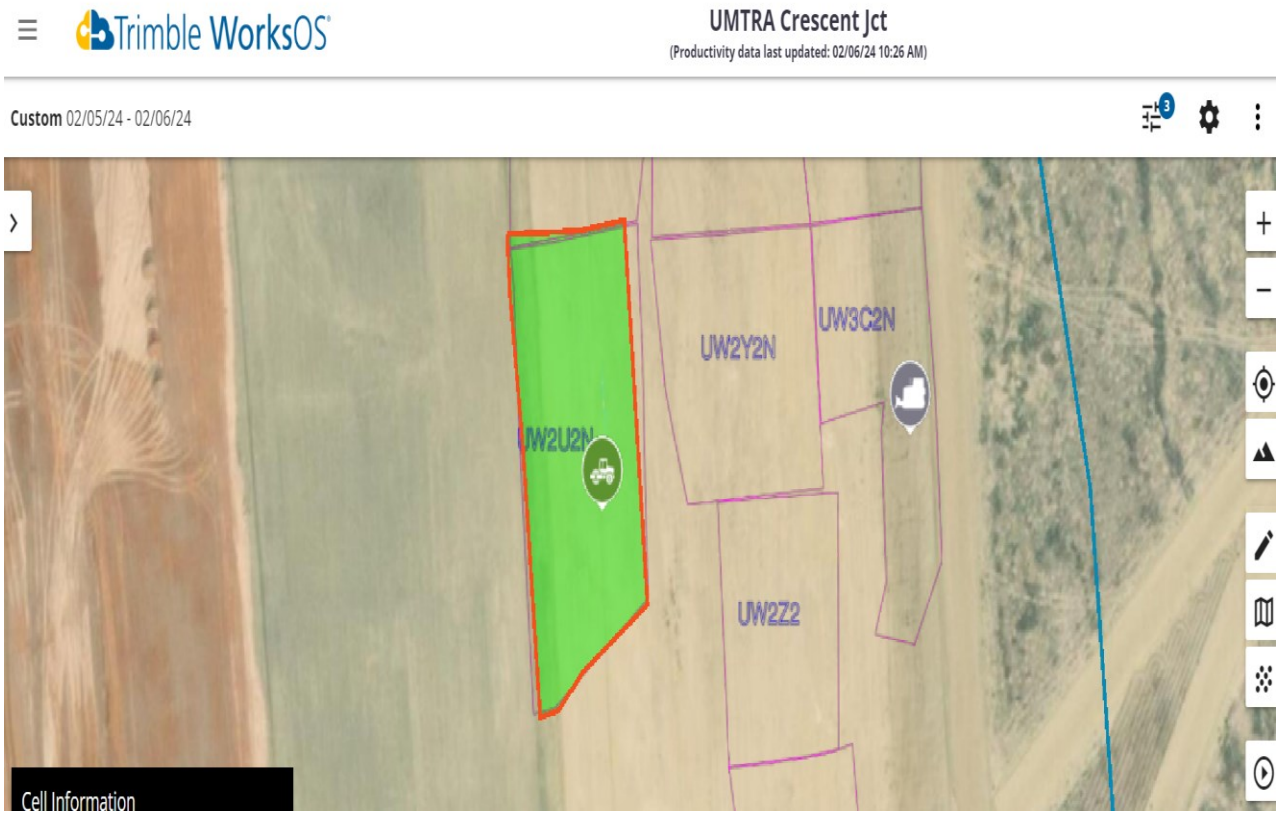
CBCS screen shot example from January 2024. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.

Appendix A2. RRM Lift Approval Summaries (*continued*)

February 2024										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd³)	Cumulative Quantity Approved (yd³)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
02/01/24	UW2Q1N240130-00	1	4,590	4,590	100.0	1.8	DB3-20200422	0	0	0
02/05/24	UW2Q1N240201-00	0	4441	9,031	99.9	1.9	N/A	0	0	0
02/06/24	UW2U2N240205-00	1	3967	12,998	100.0	1.8	DB3-20200422	0	0	0
02/08/24	UW3B8N240206-00	0	2,740	15,738	100.0	1.7	N/A	0	0	0
02/08/24	UW3C2N240206-00	0	2547	18,285	100.0	1.7	N/A	0	0	0
02/08/24	UW2U7N240206-00	0	2698	20,983	100.0	1.7	N/A	0	0	0
02/12/24	UW2Z2240208-00	0	3310	24,293	N/A	2.0	N/A	0	0	0
02/13/24	UW2Z2240212-00	1	3043	27,336	100.0	1.9	DB4-20210707	0	0	0
02/14/24	UW2Z2240213-00	0	2948	30,284	100.0	1.8	N/A	0	0	0
02/15/24	UW2Z2240214-00	0	3054	33,338	100.0	1.9	N/A	0	0	0
02/20/24	UW2U2N240213-00	0	3907	37,245	100.0	1.7	N/A	0	0	0
02/20/24	UW2Z2240215-00	6	2692	39,937	100.0	1.8	DB6-20210707	5	1	95.1
02/22/24	UW2Z2240221-00	0	2523	42,460	100.0	1.7	N/A	0	0	0
02/26/24	UW3G8N240221-00	0	2156	44,616	N/A	2.0	N/A	0	0	0
02/27/24	UW2Z2240222-00	0	2974	47,590	100.0	1.8	N/A	0	0	0
07/27/24	UW2Y2N240219-00	0	3209	50,799	100.0	1.9	N/A	0	0	0
07/27/24	UW2Y7N240219-00	0	3181	53,980	100.0	1.8	N/A	0	0	0
07/29/24	UW2Z2240227-00	1	3643	57,623	100.0	1.8	DB5-20210408	0	0	0
				Average CBCS Screen Passing Pixels (%) =		100.0				
				Total Quantity Approved (yd³) =		57,623				
				Total # of Nuclear Density Gauge Tests =		5				
				Total # of Moisture Tests =		10				
				Quantity per Moisture Test (yd³) =		5,762				
				Total Average Thickness (ft) =		1.8				
UW2Z2240212-00 & UW3G8N240221-00 are 2" Sacrificial lifts										

Appendix A2. RRM Lift Approval Summaries (*continued*)

CBCS screen shot example from February 2024. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.

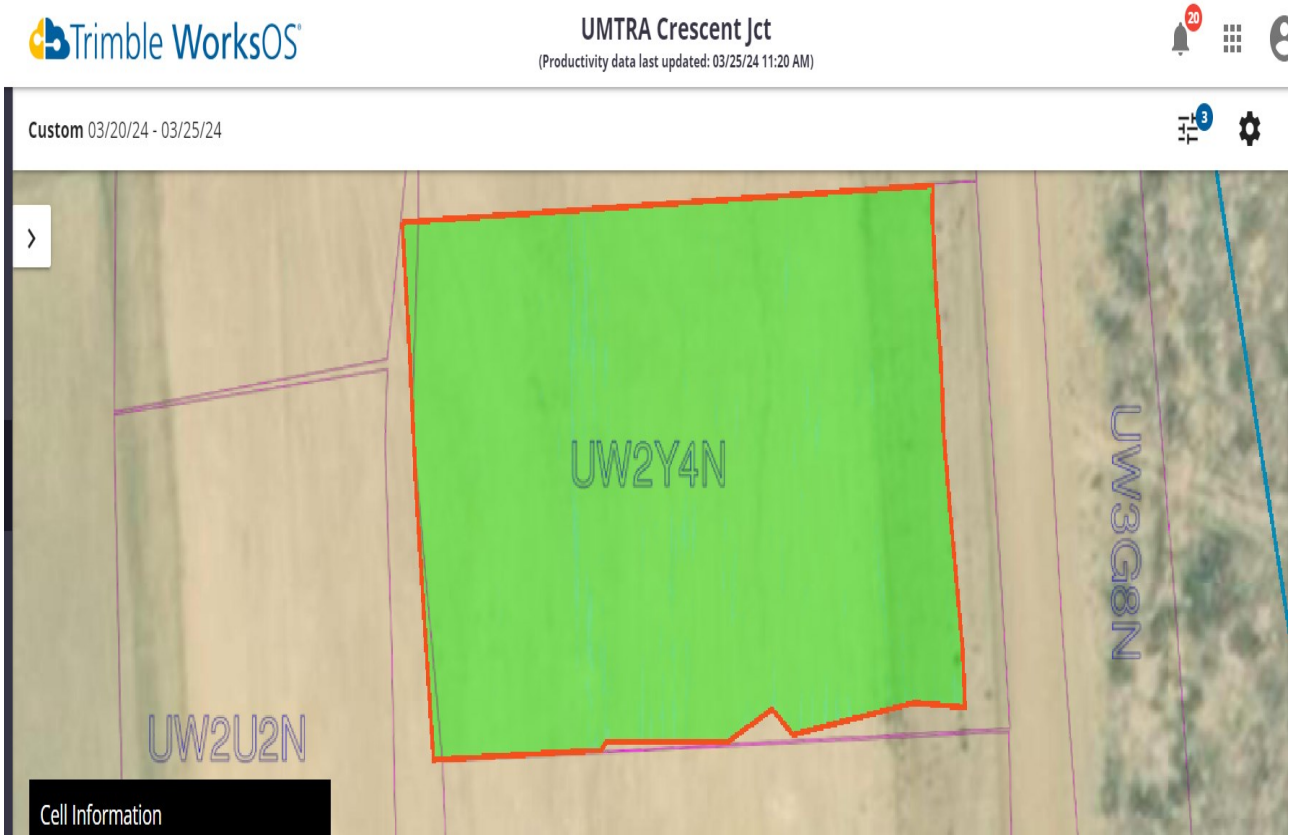


Appendix A2. RRM Lift Approval Summaries (*continued*)

March 2024										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
03/05/24	UW2Y1240229-00	1	5799	5,799	100.0	1.9	DB5-20210408	0	0	0
03/05/24	UW3G8N240227-00	0	2342	8,141	99.7	2.0	N/A	0	0	0
03/05/24	UW3C3N240305-00	0	877	9,018	98.4	1.0	N/A	0	0	0
03/06/24	UW3B8N240305-00	0	1650	10,668	98.3	1.0	N/A	0	0	0
03/11/24	UW2U2N240305-00	0	3531	14,199	100.0	1.7	N/A	0	0	0
03/12/24	UW3G8N240305-00	0	2240	16,439	99.9	1.9	N/A	0	0	0
03/13/24	UW2Y2N240312-00	0	1011	17,450	97.7	1.0	N/A	0	0	0
03/13/24	UW2Y7N240312-00	0	1577	19,027	95.8	0.9	N/A	0	0	0
03/13/24	UW2Y1240306-00	0	5846	24,873	99.8	1.9	N/A	0	0	0
03/14/24	UW3C3N240313-00	0	1605	26,478	99.7	1.8	N/A	0	0	0
03/14/24	UW3B8N240313-00	0	1577	28,055	99.8	1.4	N/A	0	0	0
03/19/24	UW2U2N240313-00	0	2820	30,875	99.7	1.6	N/A	0	0	0
03/20/24	UW2Y1240314-00	1	5261	36,136	99.9	1.8	DB6-20210707	0	0	0
03/21/23	UW3G8N240312-00	1	2671	38,807	100.0	1.9	DB6-20210707	0	0	0
03/25/24	UW2Y4N240320-00	1	5,476	44,283	100.0	1.7	RRM-521	0	0	0
03/25/24	UW2Y7N240320-00	0	695	44,978	100.0	0.9	N/A	0	0	0
03/25/24	UW2U2N240325-00	1	2227	47,205	100.0	1.6	NWL-20200422	0	0	0
03/27/24	UW2Y1240325-00	0	4840	52,045	100.0	1.9	N/A	0	0	0
03/28/24	UW2Y4N240327-00	0	4988	57,033	100.0	1.8	N/A	0	0	0
					Average CBCS Screen Passing Pixels (%) =	99.4				
					Total Quantity Approved (yd^3) =	57,033				
					Total # of Nuclear Density Gauge Tests =	0				
					Total # of Moisture Tests =	5				
					Quantity per Moisture Test (yd^3) =	11,407				
					Total Average Thickness (ft) =	1.6				

Appendix A2. RRM Lift Approval Summaries (*continued*)

CBCS screen shot example from March 2024. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.

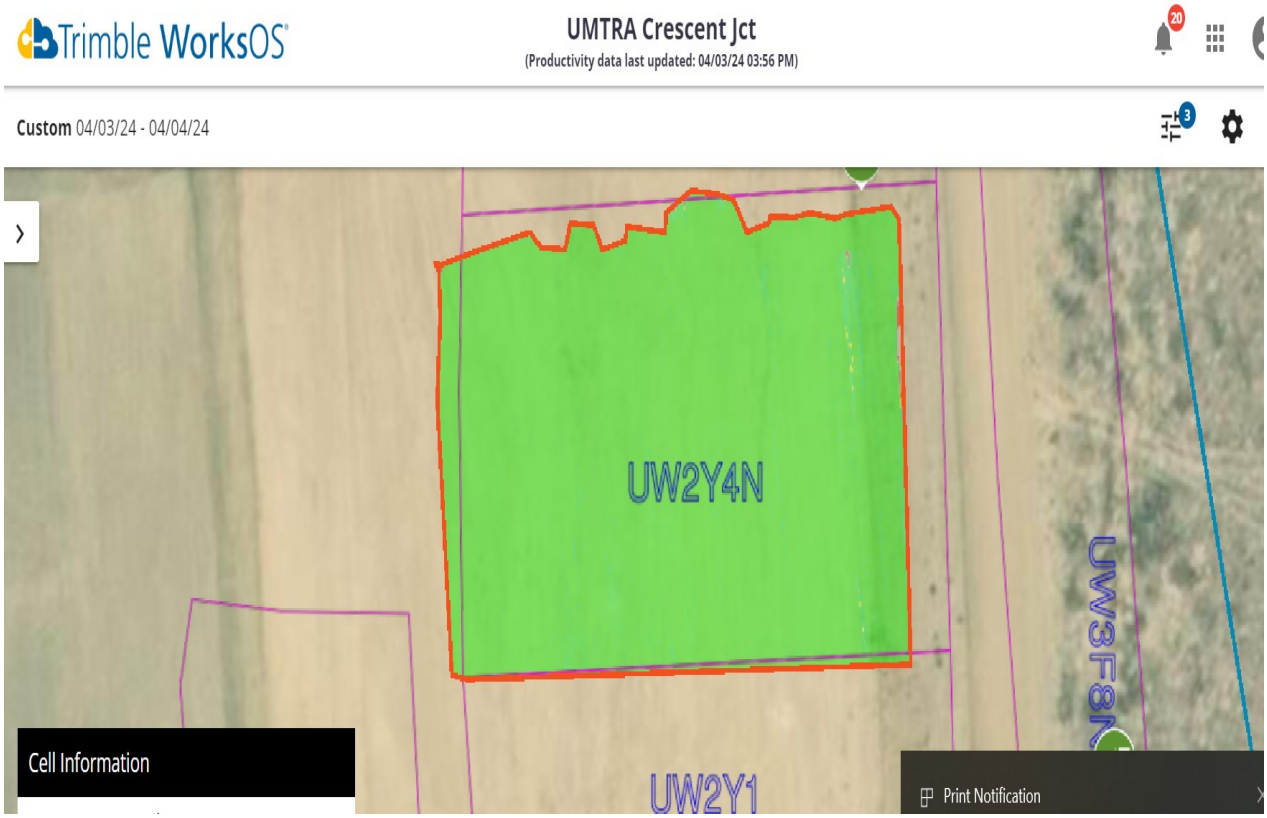


Appendix A2. RRM Lift Approval Summaries (*continued*)

April 2024										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
04/01/24	UW2T0240328-00	0	2027	2,027	100.0	1.6	N/A	0	0	0
04/02/24	UW3G8N240321-00	1	2719	4,746	100.0	2.0	RRM-521	0	0	0
04/03/24	UW2Y1240401-00	0	4707	9,453	99.8	1.9	N/A	0	0	0
04/04/24	UW2Y4N240403-00	0	3891	13,344	99.7	1.6	N/A	0	0	0
04/08/24	UW2T0240408-00	0	1076	14,420	100.0	1.2	N/A	0	0	0
04/09/24	UW2T0240408-01	0	595	15,015	100.0	0.8	N/A	0	0	0
04/10/24	UW2Y1240408-00	6	4015	19,030	99.8	1.8	DB5-20210408	6	0	95.8
04/11/24	UW2Y4N240409-00	0	3512	22,542	99.8	1.4	N/A	0	0	0
04/15/24	UW3F8N240403-00	0	3668	26,210	99.6	2.0	N/A	0	0	0
04/16/24	UW2X1240410-00	0	3775	29,985	100.0	1.7	N/A	0	0	0
04/17/24	UW2U2N240415-00	0	3301	33,286	100.0	1.6	N/A	0	0	0
04/17/24	UW2U7N240415-00	0	2897	36,183	99.8	1.9	N/A	0	0	0
04/18/24	UW2Y4N240418-00	1	3563	39,746	99.7	1.4	DB3-20200422	0	0	0
04/23/24	UW2U2N240418-00	0	3559	43,305	100.0	1.8	N/A	0	0	0
04/23/24	UW2U7N240418-00	0	2729	46,034	100.0	1.8	N/A	0	0	0
04/25/24	UW2U2N240424-00	0	1766	47,800	98.3	1.0	N/A	0	0	0
04/29/24	UW3F8N240415-00	1	3714	51,514	99.9	2.0	DB3-20200422	0	0	0
					Average CBCS Screen Passing Pixels (%) =	99.8				
					Total Quantity Approved (yd^3) =	51,514				
					Total # of Nuclear Density Gauge Tests =	6				
					Total # of Moisture Tests =	9				
					Quantity per Moisture Test (yd^3) =	5,724				
					Total Average Thickness (ft) =	1.6				

Appendix A2. RRM Lift Approval Summaries (*continued*)

CBCS screen shots example from April 2024. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.



Appendix A2. RRM Lift Approval Summaries (*continued*)

May 2024										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
05/01/24	UW2V20240423-00	4	5351	5,351	97.3	1.9	RRM-521	4	0	96
05/01/24	UW2U2N240501-00	0	1529	6,880	99.1	0.8	N/A	0	0	0
05/01/24	UW2Y4N240424-00	0	731	7,611	99.7	0.7	N/A	0	0	0
05/01/24	UW2X1240423-00	0	3527	11,138	99.5	1.8	N/A	0	0	0
05/07/24	UW2U7N240506-00	0	3026	14,164	99.9	1.9	N/A	0	0	0
05/09/24	UW2V20240507-00	0	5742	19,906	100.0	2.0	N/A	0	0	0
05/09/24	UW2X1240508-00	1	2601	22,507	99.9	1.6	RRM-521	0	0	0
05/14/24	UW2X1240513-00	0	1793	24,300	100.0	1.3	N/A	0	0	0
05/14/24	UW3F7N240429-00	0	4394	28,694	100.0	2.0	N/A	0	0	0
05/20/24	UW2X1240515-00	1	2543	31,237	100.0	1.8	RRM-521	0	0	0
05/21/24	UW2Y7N240514-00	1	8848	40,085	99.9	1.6	RRM-521	0	0	0
05/22/24	UW3F7N240520-00	0	3861	43,946	99.9	1.7	N/A	0	0	0
05/23/24	UW2V20240521-00	1	5448	49,394	100	1.9	RRM-521	0	0	0
05/23/24	UW2E21231114-00	0	2329	51,723	N/A	1.8	N/A	0	0	0
05/30/24	UW2T11240528-00	0	4326	56,049	N/A	1.5	N/A	0	0	0
					Average CBCS Screen Passing Pixels (%) =	99.6				
					Total Quantity Approved (yd^3) =	56,049				
					Total # of Nuclear Density Gauge Tests =	4				
					Total # of Moisture Tests =	8				
					Quantity per Moisture Test (yd^3) =	7,006				
					Total Average Thickness (ft) =	1.6				
UW2E21231114-00 & UW2T11240528-00 is a 2' Sacrificial Lift										

Appendix A2. RRM Lift Approval Summaries (*continued*)

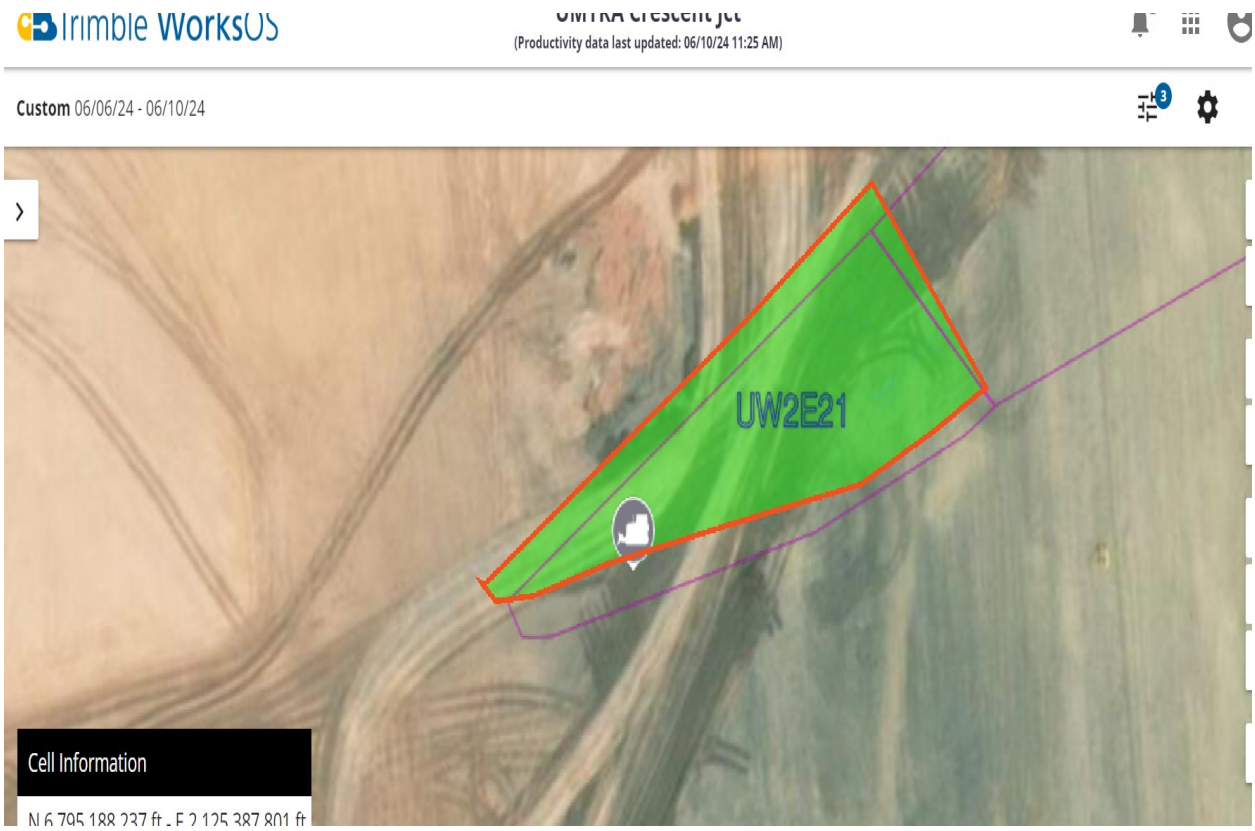
CBCS screen shot example from May 2024. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.

Appendix A2. RRM Lift Approval Summaries (*continued*)

June 2024										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
06/03/24	UW2V20240529-00	1	5599	5,599	99.9	1.9	RRM-521	0	0	0
06/05/24	UW2L17240528-00	0	6436	12,035	N/A	1.4	N/A	0	0	0
06/06/24	UW2T11240603-00	0	5397	17,432	N/A	1.9	N/A	0	0	0
06/10/24	UW2E21240605-00	3	2349	19,781	100.0	1.9	RRM-521	3	0	92
06/20/24	UW2L17240606-00	2	8366	28,147	100.0	1.9	RRM-521	0	0	0
06/19/24	UW2E21240619-00	0	2539	30,686	100.0	1.9	N/A	0	0	0
					Average CBCS Screen Passing Pixels (%) =	100.0				
					Total Quantity Approved (yd^3) =	30,686				
					Total # of Nuclear Density Gauge Tests =	3				
					Total # of Moisture Tests =	6				
					Quantity per Moisture Test (yd^3) =	5,114				
					Total Average Thickness (ft) =	2.0				
UW2L17240528-00 is a 2' Sacrificial Lift										

Appendix A2. RRM Lift Approval Summaries (*continued*)

CBCS screen shot example from June 2024. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.



Appendix A2. RRM Lift Approval Summaries (*continued*)

July 2024										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd³)	Cumulative Quantity Approved (yd³)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
07/01/24	UW2X13240611-00	0	4602	4,602	N/A	2.0	N/A	0	0	0
07/02/24	UW2O21240613-00	0	7751	12,353	N/A	2.0	N/A	0	0	0
07/03/24	UW2L17240620-00	1	7861	20,214	99.9	1.8	DB6-20210707	0	0	0
07/08/24	UW2T11240612-00	1	5347	25,561	99.8	1.9	DB5-20210408	0	0	0
07/10/24	UW2E21240703-00	0	2196	27,757	98.7	1.6	N/A	0	0	0
07/16/24	UW2L17240703-00	1	7534	35,291	99.9	1.7	DB6-20210707	0	0	0
07/22/24	UW2T11240711-00	2	4,714	40,005	97.8	1.7	NWL-20200422 DB5-20210508	0	0	0
07/23/24	UW2E21240716-00	3	2488	42,493	100.0	1.8	DB5-20210408 RRM 521	3	0	96.4
07/25/24	UW2L17240717-00	0	8,014	50,507	99.7	1.8	N/A	0	0	0
07/29/24	UW2T11240723-00	0	5,256	55,763	100.0	1.8	N/A	0	0	0
07/31/24	UW2E21240730-00	0	2,513	58,276	100.0	1.8	N/A	0	0	0
				Average CBCS Screen Passing Pixels (%) =		99.5				
				Total Quantity Approved (yd³) =		58,276				
				Total # of Nuclear Density Gauge Tests =		3				
				Total # of Moisture Tests =		8				
				Quantity per Moisture Test (yd³) =		7,285				
				Total Average Thickness (ft) =		1.8				
UW2X13240611-00 is a 2' Sacrificial lift										

Appendix A2. RRM Lift Approval Summaries (*continued*)

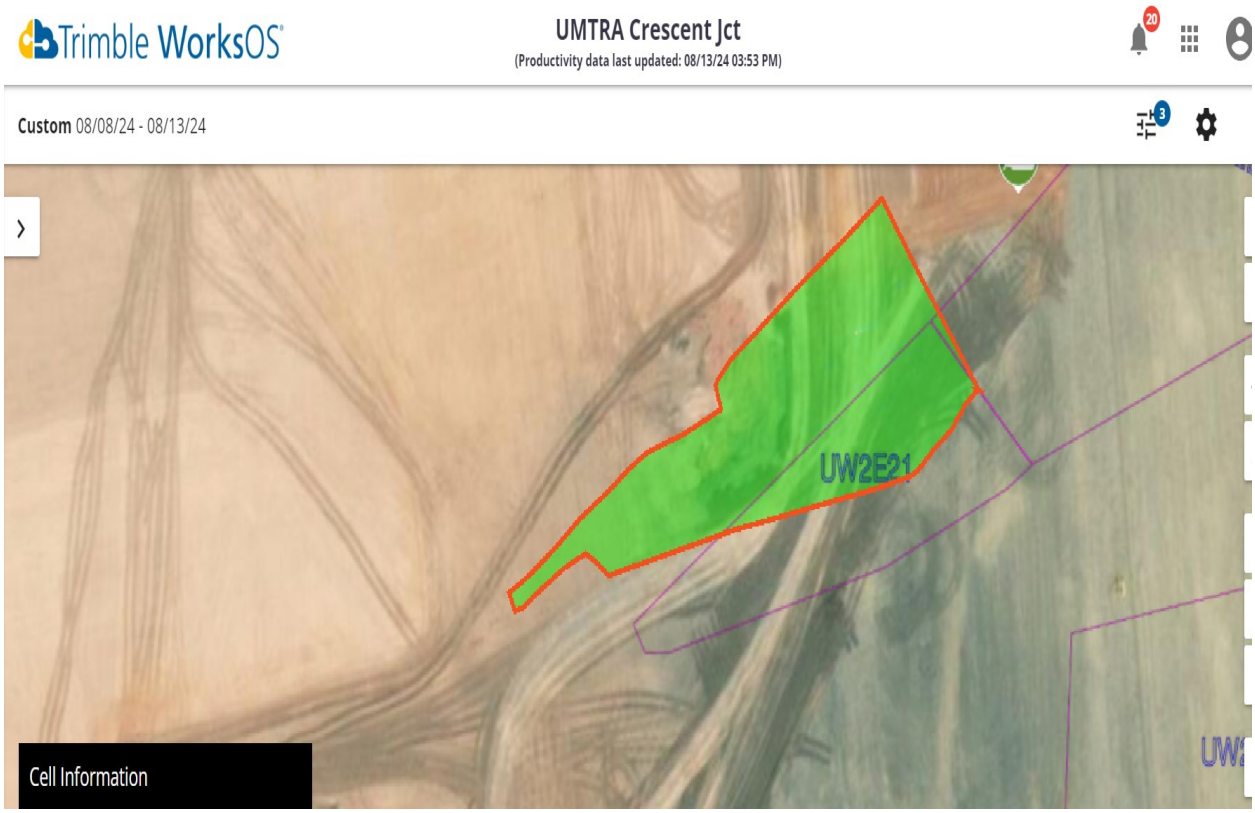
CBCS screen shot example from July 2024. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.

Appendix A2. RRM Lift Approval Summaries (*continued*)

August 2024										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
08/06/24	UW2L17240731-00	0	8307	8,307	99.1	1.9	N/A	0	0	0
08/12/24	UW2T11240731-00	0	5297	13,604	99.0	1.9	N/A	0	0	0
08/13/24	UW2E21240808-00	3	2,365	15,969	99.9	1.9	DB5-20210408, DB6-20210707, RRM-521	2	1	97.2
08/19/24	UW2L17240812-00	1	8,427	24,396	100.0	1.9	NWL-20200422	0	0	0
08/22/24	UW2T11240819-00	1	5,509	29,905	99.6	1.9	DB5-20210408	0	0	0
08/27/24	UW2E21240821-00	0	2,144	32,049	100.0	1.8	N/A	0	0	0
08/29/24	UW2L17240821-00	1	10,941	42,990	99.9	2.0	DB5-20210408	0	0	0
	Average CBCS Screen Passing Pixels (%) =					99.6				
	Total Quantity Approved (yd^3) =					42,990				
	Total # of Nuclear Density Gauge Tests =					2				
	Total # of Moisture Tests =					6				
	Quantity per Moisture Test (yd^3) =					7,165				
	Total Average Thickness (ft) =					1.9				
UI2K5N was verified by survey pts from tow & interim cover										

Appendix A2. RRM Lift Approval Summaries (*continued*)

CBCS screen shot example from August 2024. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.

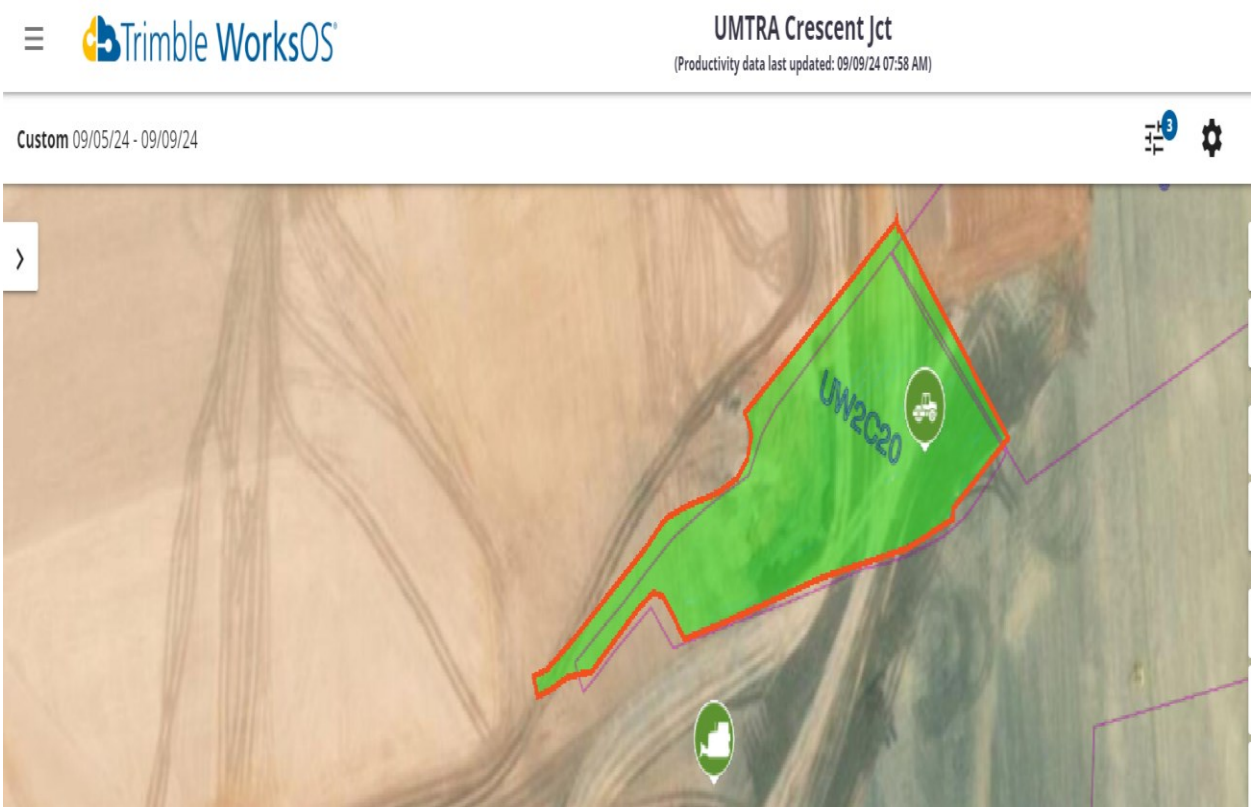


Appendix A2. RRM Lift Approval Summaries (*continued*)

September 2024										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CBCS Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
09/03/24	UW2R9240829-00	0	8474	8,474	99.8	1.9	N/A	0	0	0
09/09/24	UW2C20240904-00	1	3555	12,029	99.7	2.0	DB5-20210408	0	0	0
09/12/24	UW2J15240905-00	1	10237	22,266	99.3	1.8	DB5-20210408	0	0	0
09/19/24	UW2R9240912-00	1	8272	30,538	99.9	1.9	DB3-20200422	0	0	0
09/24/24	UW2O21240917-00	0	7549	38,087	99.9	1.9	N/A	0	0	0
09/25/24	UW2V20240912-00	8	4545	42,632	96.2	1.8	NWL-20200422	6	1	96.47
09/26/24	UW2C20240923-00	0	3436	46,068	100.0	2.0	N/A	0	0	0
09/26/24	UW2X13240708-00	0	4512	50,580	100.0	2.0	N/A	0	0	0
				50,580						
	Average CBCS Screen Passing Pixels (%) =					99.4				
	Total Quantity Approved (yd^3) =					50,580				
	Total # of Nuclear Density Gauge Tests =					6				
	Total # of Moisture Tests =					11				
	Quantity per Moisture Test (yd^3) =					4,598				
	Total Average Thickness (ft) =					1.9				

Appendix A2. RRM Lift Approval Summaries (*continued*)

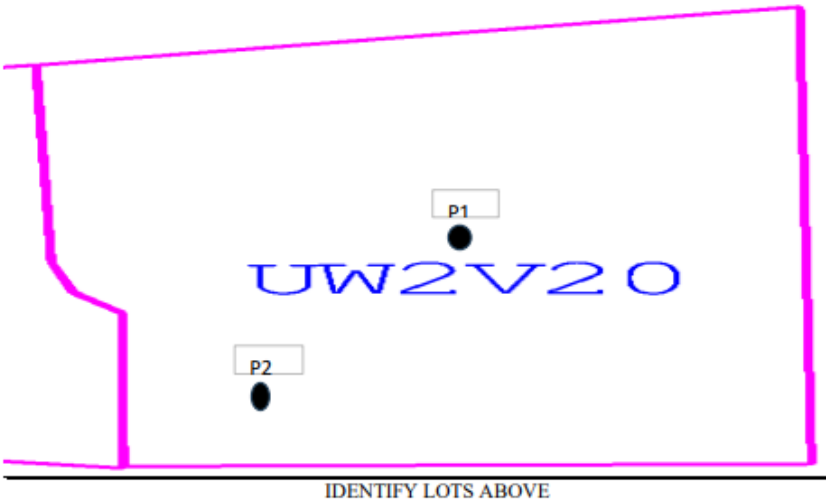
CBCS screen shot example from September 2024. There are compaction screen shots for each lift approved on record. The number of passing pixels reported refers to the percentage of the lift which has green pixels. A green pixel verifies that the minimum of six-wheel passes with the compactor has been recorded.



Appendix A2. RRM Lift Approval Package

PROJECT: Moab UMTRA **OTHER**

NW CORNER **DATE:** 9/12/2024



P 1	NE Corner			
EW:	232	X 0.600	=	139
NS:	363	X 0.450	=	163
P 2	SE Corner			
EW:	232	X 0.330	=	77
NS:	363	X 0.770	=	280
P 3				
EW:		X	=	
NS:		X	=	
P 4				
EW:		X	=	
NS:		X	=	
P 5				
EW:		X	=	
NS:		X	=	

Page 2 attached: Y N

IDENTIFY LOTS ABOVE

LIFT ID: **UW2V20240912-00** NW CORNER: **6795044 N 2126026 E**

Uncompacted Thickness: **1.8** Compacted Thickness: **N/A** Debris Insp. By: **N/A** Date: **N/A** Time: **N/A**

NW CORNER of debris placement: **6794997 N 2125799 E** EW Dimension **232'** NS Dimension **363'**

Lift Area (ft²): **66,686** Lift Volume (yd³): **4,545**

Comments: : QC visually confirmed that the lift area was scarified and moisture conditioned prior to placement. QC visually observed the material being placed to have proper moisture for compaction. QC verified material compaction using the CBCS . QC conducted visual assessments throughout the shift. This lift was compacted with the 825H. All debris pipe and ducts that are 6" or greater in diameter shall be crushed , or if crushing is impractical, shall be cut in half longitudinally or filled. Debris shall be spread and /or oriented in a manner that results in a minimum of voids and contain no free liquids. QC performed a moisture test using proctor DB3-20200422, optium of 16.1 sandy lean clay like material. This lift passed with a MC of 14.14. QC performed a Nuclear Density test and a sand cone, P1 & P2, at 6", 12" & 18", along with a sand cone. This is to make sure this correlates with test strips on SV544D compactor. This lift passed using proctor NWL-20200422 silty sand like material.

Attached Forms: **Grid Slope** X **Compaction Macro** X **Print Screen** X **Moisture/ Density** N/A

KEYING IN NOTES: N E S W **Satisfactory** MOISTURE/ DENSITY TESTS ID # (S): **N/A**

LIFT APPROVED BY: **Tammy Hooker/** DATE: **9/25/2024** TIME: **1353**

QA/QC APPROVAL DATE

Density Testing
DOE-EM/GJRAC1783

QC-F-001
File index No. 43.8.2

Slope Elevation Survey

	Average lift thickness=	1.8	Bounding Box	Northing	Easting	
	Grid Size=	45'	Lower Left	N		
Lift ID:	UW2V20240912-00		Upper Right		A	
Last Lift Elevations			Lift Approval Elevations			Lift Thickness
Northing	Easting	Elevation	Northing	Easting	Elevation	Thickness
6,794,744	2,125,894	4,933.7	6,794,744	2,125,894	4,935.7	2.0
6,794,744	2,125,939	4,933.7	6,794,744	2,125,939	4,935.9	2.2
6,794,744	2,125,984	4,933.4	6,794,744	2,125,984	4,935.3	1.8
6,794,789	2,125,849	4,935.0	6,794,789	2,125,849	4,937.0	2.0
6,794,789	2,125,894	4,935.2	6,794,789	2,125,894	4,936.6	1.4
6,794,789	2,125,939	4,934.7	6,794,789	2,125,939	4,936.7	2.0
6,794,789	2,125,984	4,934.8	6,794,789	2,125,984	4,936.6	1.8
6,794,834	2,125,849	4,936.2	6,794,834	2,125,849	4,937.9	1.7
6,794,834	2,125,894	4,936.2	6,794,834	2,125,894	4,938.1	1.9
6,794,834	2,125,939	4,935.7	6,794,834	2,125,939	4,937.7	2.0
6,794,834	2,125,984	4,935.9	6,794,834	2,125,984	4,937.5	1.7
6,794,879	2,125,849	4,937.2	6,794,879	2,125,849	4,939.1	1.9
6,794,879	2,125,894	4,937.0	6,794,879	2,125,894	4,938.9	1.9
6,794,879	2,125,939	4,936.8	6,794,879	2,125,939	4,938.6	1.8
6,794,879	2,125,984	4,936.8	6,794,879	2,125,984	4,938.3	1.5
6,794,924	2,125,849	4,938.2	6,794,924	2,125,849	4,940.0	1.8
6,794,924	2,125,894	4,938.2	6,794,924	2,125,894	4,939.9	1.7
6,794,924	2,125,939	4,937.9	6,794,924	2,125,939	4,939.8	1.8
6,794,924	2,125,984	4,937.9	6,794,924	2,125,984	4,939.5	1.6
6,794,969	2,125,849	4,939.1	6,794,969	2,125,849	4,941.2	2.0
6,794,969	2,125,894	4,939.0	6,794,969	2,125,894	4,941.0	2.0
6,794,969	2,125,939	4,939.1	6,794,969	2,125,939	4,940.8	1.7
6,794,969	2,125,984	4,938.7	6,794,969	2,125,984	4,940.7	1.9
6,795,014	2,125,984	4,939.8	6,795,014	2,125,984	4,941.8	2.0
						0.0
						0.0
						0.0
						0.0
						0.0
				N		0.0
				A th	9/23/2024	0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0

Page of

% =4	96.2%
Elevation Avg	4938.3
Total =4	4336
Total Lines	4505

Pass

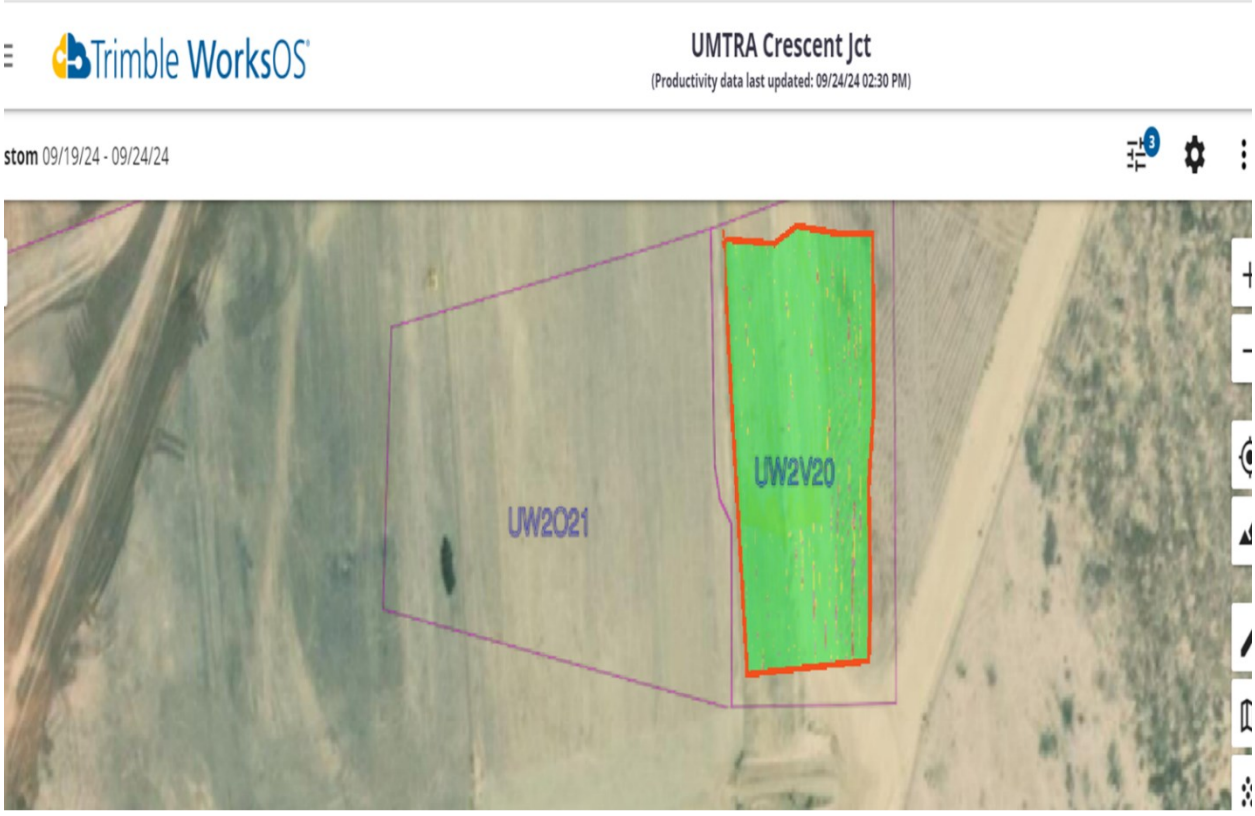
Minimum Number of Machine Passes
4

Lift ID: UW2V20240912-00

Northing	Easting	Elevation	# of Passes	Passes =4	Count
6794717	2125851	4934.8	5	1	1
6794717	2125854	4934.8	6	1	1
6794717	2125858	4935.0	5	1	1
6794717	2125861	4935.2	8	1	1
6794717	2125864	4935.2	4	1	1
6794717	2125868	4935.3	2		1
6794717	2125871	4935.1	4	1	1
6794717	2125874	4935.1	7	1	1
6794717	2125878	4935.0	4	1	1
6794717	2125881	4935.1	6	1	1
6794717	2125884	4934.9	4	1	1
6794717	2125887	4934.6	4	1	1
6794717	2125891	4934.3	4	1	1
6794717	2125894	4934.6	5	1	1
6794717	2125897	4934.7	6	1	1
6794720	2125848	4934.9	6	1	1
6794720	2125851	4935.0	6	1	1
6794720	2125854	4935.0	6	1	1
6794720	2125858	4935.1	4	1	1
6794720	2125861	4935.2	6	1	1
6794720	2125864	4935.2	4	1	1
6794720	2125868	4935.2	2		1
6794720	2125871	4935.2	4	1	1
6794720	2125874	4935.2	6	1	1
6794720	2125878	4935.3	4	1	1
6794720	2125881	4935.2	4	1	1
6794720	2125884	4935.0	4	1	1
6794720	2125887	4934.7	5	1	1
6794720	2125891	4934.6	4	1	1
6794720	2125894	4934.6	6	1	1
6794720	2125897	4934.8	6	1	1
6794720	2125901	4934.9	5	1	1
6794720	2125904	4935.1	4	1	1
6794720	2125907	4935.2	6	1	1
6794720	2125911	4934.8	4	1	1
6794720	2125914	4934.7	3		1
6794720	2125917	4934.5	4	1	1
6794720	2125920	4935.0	6	1	1
6794720	2125924	4934.9	6	1	1
6794720	2125927	4935.0	4	1	1
6794720	2125930	4935.0	4	1	1
6794720	2125934	4935.4	5	1	1
6794720	2125937	4934.9	4	1	1
6794720	2125940	4934.8	6	1	1

Lift Height
1' 0"
Thick Lift Threshold
2' 0"
Last Lift Elevation
N/A

Page ____ of ____


Trimble WorksOS
UMTRA Crescent Jct
(Productivity data last updated: 09/24/24 02:30 PM)
stom 09/19/24 - 09/24/24
UW2021
UW2V20

FIELD DENSITY TEST

PROJECT:	Moab UMTRA	**Standard Count:**						**Date:**	9/25/2024					
Lift ID:	UW2V20240912-00		**MS=**	496	498	499								
Make/Model:	Troxler 3430		**DS=**	2028	2566	2525		**Gauge Calibration Date:**				2/5/2024		
Task	RRM	**Sand-Cone and Plate No.**		N/A				**Sand-Cone Calibration Date:**				N/A		

Test No.	Depth (inches)	Test Location	Test NUC	Type Sand	MDD (pcf)	OMC (%)	WD (pcf)	DD (pcf)	MC (%)	Compaction (%)	Pass Fail	Soil Type	Proctor ID.	Date of Test
P1	6	See Map on Pg. 1	X		103.9	15.8	112.0	98.2	14.0	94.5	P	SM	NLW-20200422	9/25/2024
P1	12	See Map on Pg. 1	X		103.9	15.8	108.9	95.2	14.4	91.6	P	SM	NLW-20200422	9/25/2024
P1	18	See Map on Pg. 1	X		103.9	15.8	108.7	98.5	10.4	94.8	P	SM	NLW-20200422	9/25/2024
P2	6	See Map on Pg. 1	X		103.9	15.8	114.0	101.7	12.1	97.9	P	SM	NLW-20200422	9/25/2024
P2	12	See Map on Pg. 1	X		103.9	15.8	115.0	103.1	11.5	99.2	P	SM	NLW-20200422	9/25/2024
P2	18	See Map on Pg. 1	X		103.9	15.8	107.5	103.4	7.1	99.5	P	SM	NLW-20200422	9/25/2024
P2	18	See Map on Pg. 1		X	103.9	15.8	112.0	103.4	8.3	97.8	P	SM	NLW-20200422	9/25/2024

Legend:* indicates moisture and density correction for RRM only **** indicates a retest**

Moisture Content:	**P1@-6"**	**Moisture Content:**	P2@-6"		
A. Container No.	**A-1**	**A. Container No.**	**DOG**		
B. Container Mass (g):	**212.3**	**B. Container Mass:**	**288.2**		
C. Mass of Container & Wet Soil (g)	**542.9**	**C. Mass of Container & Wet Soil**	**678.1**		
D. Mass of Container & Dry Soil (g)	**502.3**	**D. Mass of Container & Dry Soil**	**636**	**ASTM**	**D698**
E. Moisture Content (%)	**14.00**	**E. Moisture Content**	**12.10**		

Testing By: Alfredo Tellez/ **Date:** **9/25/2024** **QA/QC Rep.** Tammy Hooker/

Print / Signature **Print / Signature**

QC-F-002
Revision 1

File index No. 43.8.2
Page___ of ___

Appendix A2. RRM Lift Approval Package (*continued*)

Project: Moab UMTRA

Report Date: 9/25/2024

Lift ID: UW2V20240912-00

Item #	Sample ID: *P1-12		Resulting % M.C.
1)	Container ID:	Cat	
2)	Mass of container:	215.1	
3)	Mass of container & wet soil:	524.3	
4)	Mass of container & dry soil:	485.4	**14.39**

Item #	Sample ID: *P2-12		Resulting % M.C.
1)	Container ID:	P-1	
2)	Mass of container:	288.5	
3)	Mass of container & wet soil:	687.9	
4)	Mass of container & dry soil:	646.8	**11.47**

Item #	Sample ID: *P1-18		Resulting % M.C.
1)	Container ID:	P-2	
2)	Mass of container:	285.4	
3)	Mass of container & wet soil:	637.7	
4)	Mass of container & dry soil:	604.6	**10.37**

Item #	Sample ID: *P2-18		Resulting % M.C.
1)	Container ID:	P-3	
2)	Mass of container:	285.6	
3)	Mass of container & wet soil:	669.2	
4)	Mass of container & dry soil:	643.9	**7.06**

Item #	Sample ID:		Resulting % M.C.
1)	Container ID: N		
2)	Mass of container: A		
3)	Mass of container & wet soil:		
4)	Mass of container & dry soil:		**#DIV/0!**

Item #	Sample ID: P2-18 sand cone		Resulting % M.C.
1)	Container ID:	P-4	
2)	Mass of container:	286.6	
3)	Mass of container & wet soil:	673.4	
4)	Mass of container & dry soil:	643.9	**8.3**

$$\textbf{\% M.C.} = \frac{\text{Item (3)} - \text{Item (4)}}{\text{Item (4)} - \text{Item (2)}} \text{x} 100$$

Page 7 of 7

SAND CONE CALCULATIONS

Sand Cone Mass	Mass(g)	Mass (lb)	
Before	6901.5	***15.2***	
After	2915.3	***6.4***	
		TOTAL SAND USED (lb)	***8.8***
Soil Collected Mass	Mass (g)	Mass (lb)	
Mass of Bag	9.3	4.9	
Mass of Wet Soil + Bag	2248		
		TOTAL WET SOIL (lb)	***4.9***
VOLUME OF SOIL REMOVED	Mass (lbs)		
Sand Used	***8.8***		
Sand Used to Fill Cone & Plate	4.1	**VOLME OF SOIL REMOVED (cf)**	***0.05***
(See Calibration on Board)			
BULK DENSITY OF SAND(pcf)	97.3		
(See Calibration on Board)			
MOISTURE CONTENT	Mass (g)		
Container Mass	286.6		
Container + Wet Soil Mass	673.4		
Container + Dry Soil Mass	643.9	**Moisture Content %**	***8.3***

WET DENSITY

112.0 (PCF)

DRY DENSITY

103.4 (PCF)

PERCENT of PROCTOR	(PCF)		
Calculated Dry Density	103.4		
Maximum Dry Density	105.7	Percent of Proctor %	97.8

Appendix A2. Top of Waste Buyoff Survey

Environmental Management - Grand Junction Office
MOAB
UMTRA Project

Top of waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 5/09/2024

In signing this document, the signatory agrees that the top of waste is complete and meets both the project specifications and RAIP requirements.

Excavation Area	Lift Area
	UW2U7N240508-00

Approver Name/Title	Signature	Sign Date
Don Janz/ CJ Operations/Site Mgr.		5/9/24
Tammy Hooker/ QA/QC Representative		5/9/2024
Kathy Turvy/ QA/AC Manager		5/9/2024
Comments		
This lift area was placed in 2' lifts, compacted, graded, and surveyed.		

Top of Waste Grade Verification Survey

Buyoff ID: UW2U7N240508-00-00 — Date: 5/8/2024

Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Δ in feet	Δ in inches
12605_stk	6796209.96	2125700.01	4986.22	4986.18	0.04	0.5
12606_stk	6796260.01	2125700.04	4985.21	4985.16	0.04	0.5
12607_stk	6796310.03	2125699.99	4984.19	4984.15	0.03	0.4
12643_stk	6796310.00	2125750.02	4984.16	4984.12	0.04	0.5
12679_stk	6796309.97	2125800.04	4984.15	4984.09	0.06	0.7
12715_stk	6796310.04	2125849.96	4984.06	4984.06	0.00	0.0
12714_stk	6796259.98	2125850.03	4985.12	4985.07	0.04	0.5
12678_stk	6796260.03	2125800.03	4985.12	4985.10	0.02	0.2
12642_stk	6796260.02	2125750.00	4985.16	4985.13	0.03	0.3
12641_stk	6796209.96	2125750.03	4986.19	4986.14	0.04	0.5
12677_stk	6796210.03	2125799.99	4986.16	4986.11	0.05	0.6
12713_stk	6796210.05	2125850.03	4986.11	4986.08	0.03	0.3
12712_stk	6796160.03	2125850.00	4987.14	4987.09	0.05	0.5
12676_stk	6796160.01	2125800.00	4987.16	4987.12	0.04	0.5
12640_stk	6796160.00	2125749.97	4987.21	4987.16	0.05	0.6
12604_stk	6796160.03	2125700.01	4987.20	4987.19	0.02	0.2
12603_stk	6796110.02	2125699.99	4988.21	4988.20	0.01	0.1

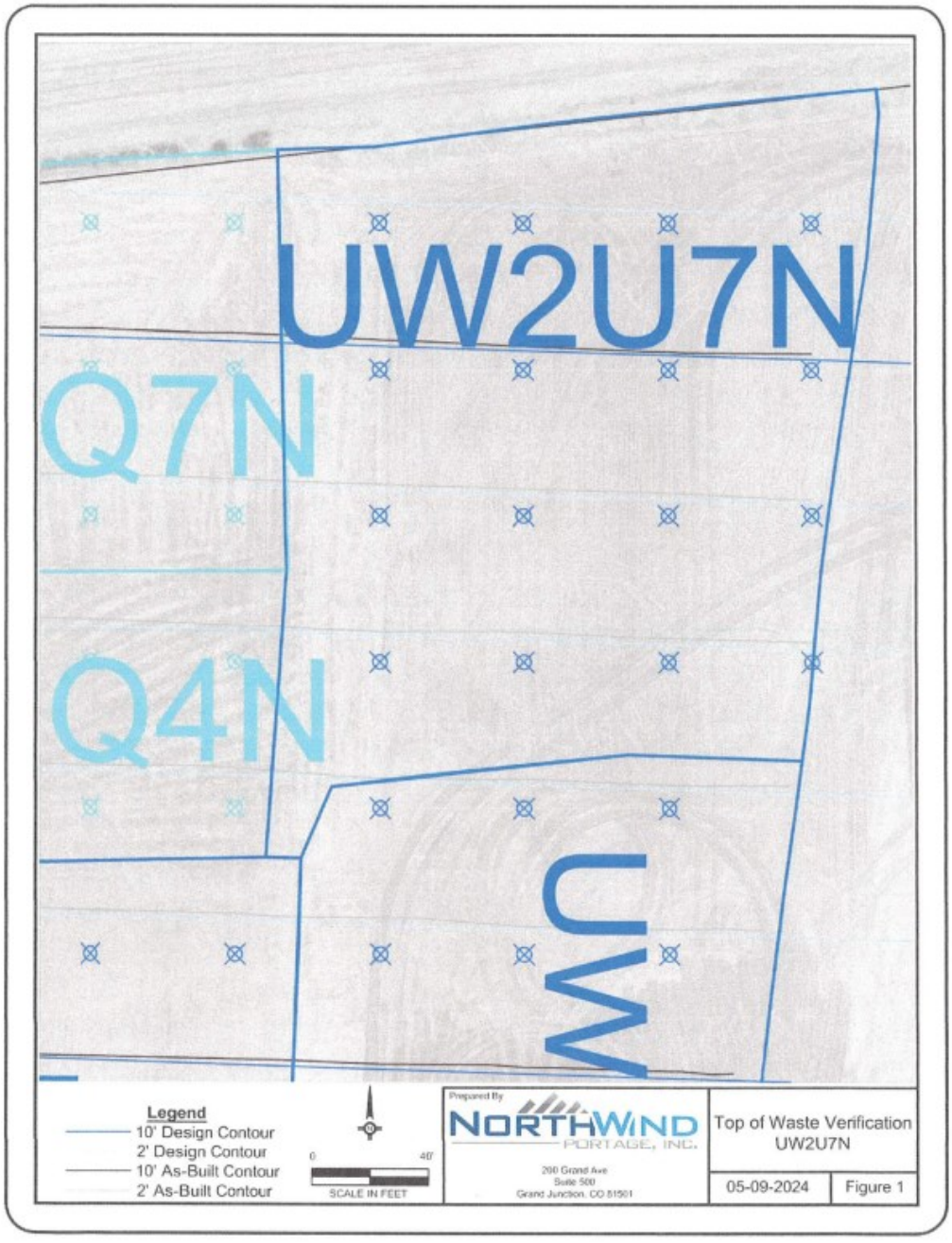
Comments: QC performed a visual inspection of the final surface with satisfactory results. The grading tolerance for the top of waste is -0 FT to +0.17 FT (-0 IN to +2 IN).

Approval Date:5/09/2024 — Total Square Feet: 43,290 FT^2

Northwest Corner: N: 6796335 E: 2125665

QC Signature:Tammy Hooker/ — Reviewed By:Kathy Turvy/

Appendix A2. Top of Waste Buyoff Survey *(continued)*



Environmental Management - Grand Junction Office
MOAB
UMTRA Project

Top of waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 3/11/2024

In signing this document, the signatory agrees that the top of waste is complete and meets both the project specifications and RAIP requirements.

Excavation Area	Lift Area
	UW2Q1N240306-00

Approver Name/Title	Signature	Sign Date
Don Janz/ CJ Operations/Site Mgr.		3/11/24
Tammy Hooker/ QA/QC Representative		3/11/2024
Kathy Turvy/ QA/AC Manager		3/11/2024
Comments		
This lift area was placed in 2' lifts, compacted, graded and surveyed.		

Top of Waste Grade Verification Survey

Buyoff ID: UW2Q1N240306-00 — Date: 3/6/2024

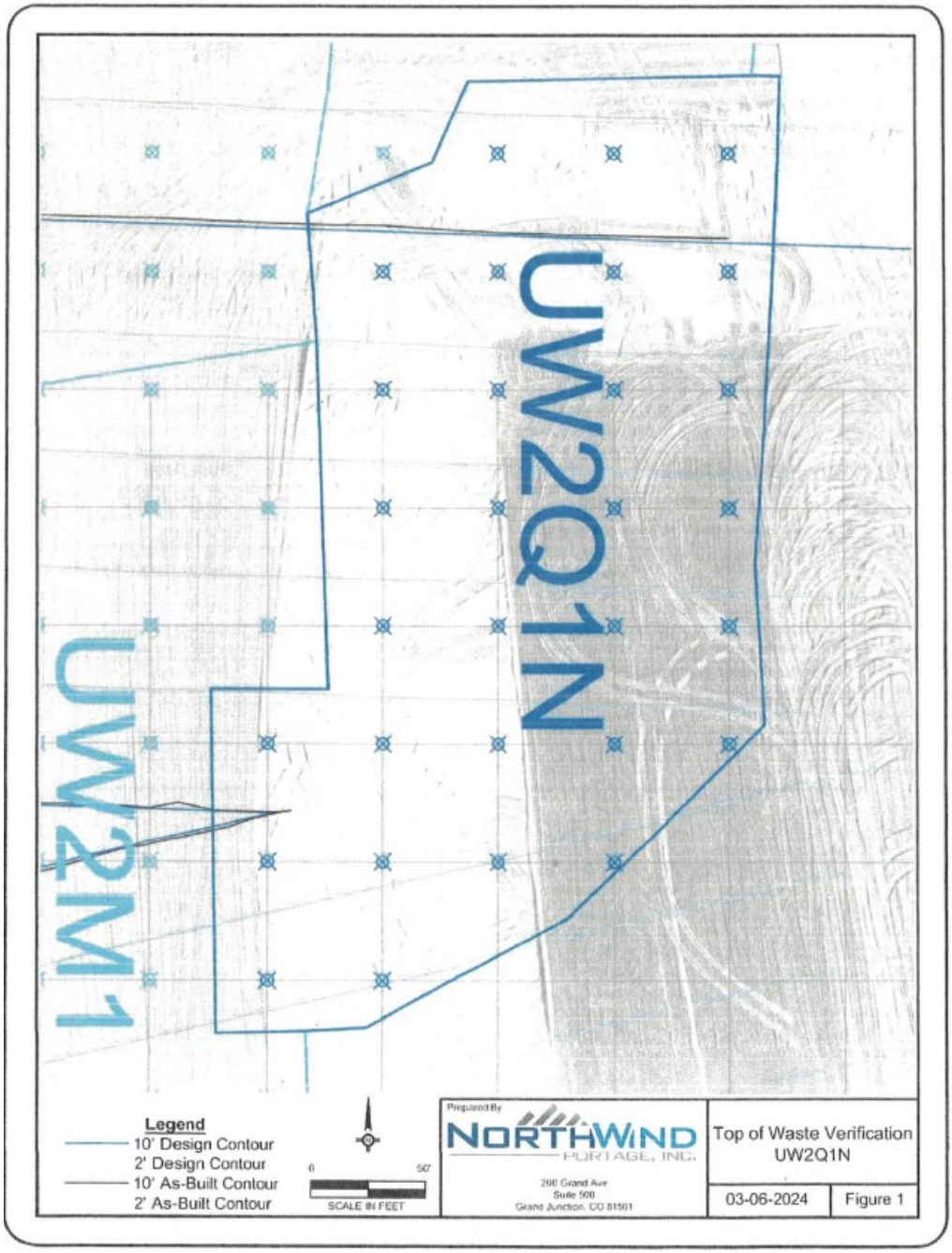
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Δ in feet	Δ in inches
12491_stk	6796060.02	2125550.03	4989.32	4989.30	0.02	0.2
12528_stk	6796060.06	2125600.01	4989.30	4989.27	0.03	0.4
12565_stk	6796059.98	2125650.02	4989.28	4989.24	0.04	0.5
12564_stk	6796010.02	2125650.03	4990.28	4990.25	0.04	0.4
12527_stk	6796009.97	2125599.96	4990.30	4990.28	0.02	0.3
12490_stk	6796010.03	2125549.96	4990.33	4990.31	0.02	0.2
12453_stk	6796010.03	2125499.97	4990.39	4990.34	0.06	0.7
12452_stk	6795959.99	2125499.97	4991.41	4991.35	0.06	0.7
12489_stk	6795960.00	2125550.04	4991.37	4991.32	0.05	0.6
12526_stk	6795959.98	2125600.02	4991.32	4991.29	0.04	0.4
12563_stk	6795960.02	2125650.03	4991.30	4991.26	0.04	0.5
12562_stk	6795909.99	2125650.02	4992.31	4992.27	0.04	0.5
12525_stk	6795909.99	2125600.02	4992.35	4992.30	0.05	0.6
12488_stk	6795910.01	2125550.02	4992.37	4992.33	0.04	0.5
12451_stk	6795910.03	2125500.02	4992.38	4992.36	0.02	0.3
12450_stk	6795860.04	2125500.02	4993.40	4993.37	0.03	0.3
12487_stk	6795860.01	2125549.98	4993.36	4993.34	0.03	0.3
12524_stk	6795860.05	2125599.98	4993.35	4993.31	0.04	0.5
12561_stk	6795859.98	2125649.99	4993.32	4993.28	0.04	0.5
12560_stk	6795909.96	2125650.00	4994.32	4994.28	0.03	0.4
12523_stk	6795810.04	2125599.99	4994.35	4994.32	0.03	0.4
12486_stk	6795810.02	2125549.95	4994.39	4994.35	0.05	0.5
12449_stk	6795810.02	2125500.02	4994.40	4994.38	0.02	0.2
12413_stk	6795809.95	2125449.98	4994.44	4994.41	0.03	0.4
12412_stk	6795760.02	2125450.01	4994.53	4994.51	0.02	0.3
12411_stk	6795710.04	2125450.03	4993.32	4993.28	0.04	0.5
12447_stk	6795709.95	2125499.99	4993.04	4993.00	0.04	0.5
12448_stk	6795760.02	2125499.97	4994.25	4994.23	0.02	0.3
12485_stk	6795760.03	2125550.02	4993.99	4993.94	0.05	0.6
12522_stk	6795759.99	2125599.97	4993.71	4993.66	0.05	0.6

Comments: QC performed a visual inspection of the final surface with satisfactory results. The grading tolerance for the top of waste is -0 FT to +0.17 FT (-0 IN to +2 IN).

Approval Date: 3/11/2024 — Total Square Feet: 72,560 FT^2

Northwest Corner: N: 6796056 E: 2125522

QC Signature: [signature] — Reviewed By: Kathy Ty 3/11/2024


UW2Q1N
UW2M1
Legend
10' Design Contour
2' Design Contour
10' As-Built Contour
2' As-Built Contour
0
50'
SCALE IN FEET
Prepared By
NORTHWIND
PORTAGE, INC.
200 Grand Ave
Suite 500
Grand Junction, CO 81501
Top of Waste Verification
UW2Q1N
03-06-2024
Figure 1

Environmental Management - Grand Junction Office
MOAB
UMTRA Project

Top of waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 5/7/2024

In signing this document, the signatory agrees that the top of waste is complete and meets both the project specifications and RAIP requirements.

Excavation Area	Lift Area
Top of Waste	UW2U2N240502-00-00

Approver Name/Title	Signature	Sign Date
Don Janz/ CJ Operations/Site Mgr.		5/7/24
Tammy Hooker/ QA/QC Representative		5/7/2024
Kathy Turvy/ QA/AC Manager		5/7/2024
Comments		
This was one lift area UW2U2N. This lift was placed in 2' lifts, compacted, graded, and surveyed.		

Top of Waste Grade Verification Survey

Buyoff ID: UW2U2N240502-00 — Date: 5/2/2024

Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Δ in feet	Δ in inches
12639_stk	6796110.02	2125749.95	4988.20	4988.17	0.03	0.4
12675_stk	6796110.04	2125800.02	4988.16	4988.13	0.02	0.3
12674_stk	6796060.02	2125800.01	4989.18	4989.14	0.03	0.4
12638_stk	6796059.99	2125749.95	4989.19	4989.18	0.02	0.2
12602_stk	6796060.01	2125700.03	4989.27	4989.21	0.06	0.8
12601_stk	6796009.97	2125700.01	4990.24	4990.22	0.03	0.3
12637_stk	6796010.04	2125750.01	4990.24	4990.19	0.05	0.6
12673_stk	6796009.97	2125800.01	4990.21	4990.15	0.05	0.6
12672_stk	6795960.04	2125800.04	4991.20	4991.16	0.04	0.4
12636_stk	6795960.04	2125749.98	4991.22	4991.19	0.02	0.3
12600_stk	6795960.00	2125700.02	4991.28	4991.23	0.05	0.6
12599_stk	6795910.02	2125700.02	4992.28	4992.23	0.04	0.5
12635_stk	6795909.97	2125750.00	4992.26	4992.20	0.05	0.6
12671_stk	6795910.01	2125800.01	4992.23	4992.17	0.05	0.6
12598_stk	6795860.03	2125700.05	4993.28	4993.24	0.03	0.4
12634_stk	6795860.05	2125750.03	4993.25	4993.21	0.04	0.4

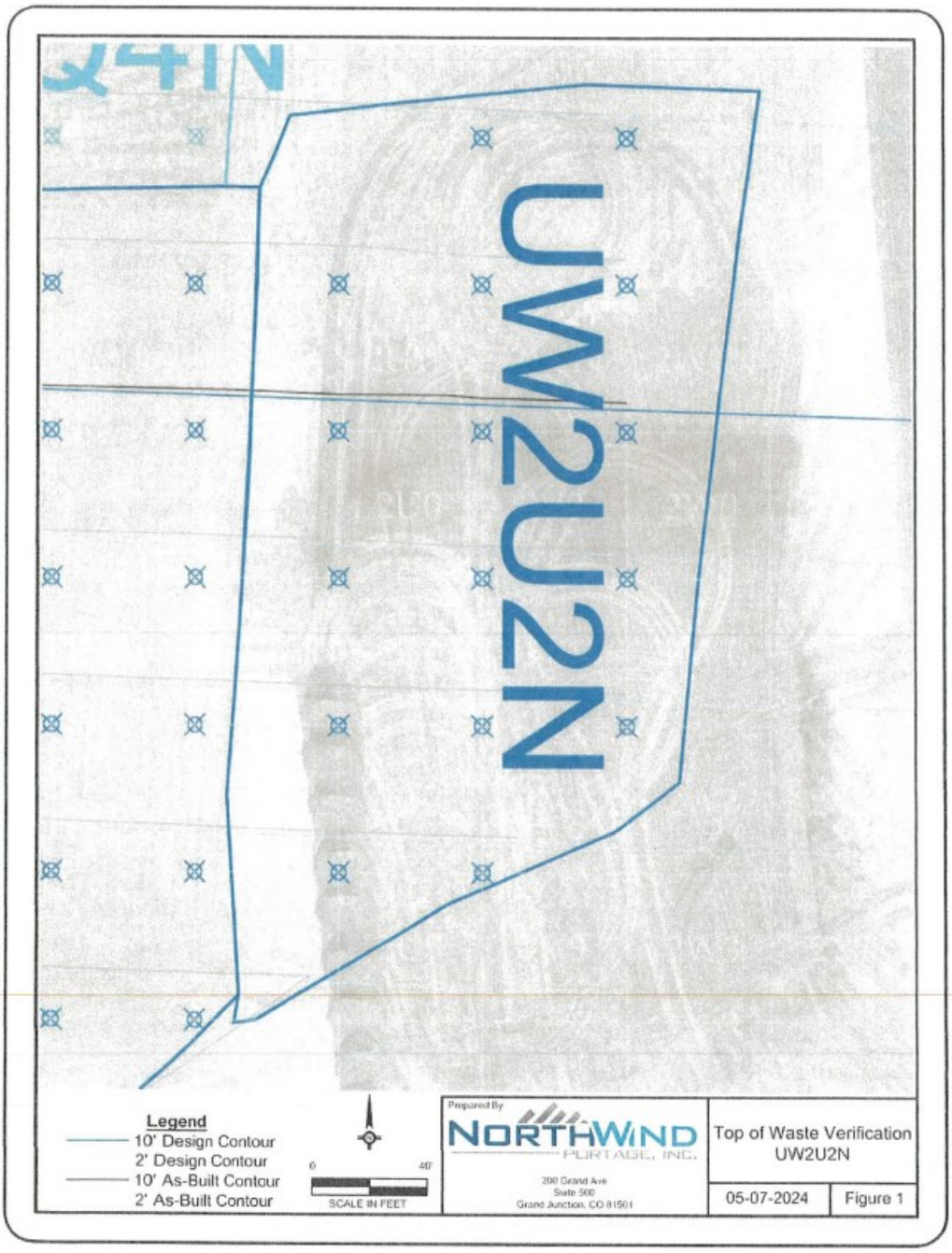
Comments: QC performed a visual inspection of the final surface with satisfactory results. The grading tolerance for the top of waste is -0 FT to +0.17 FT (-0 IN to +2 IN).

Approval Date: 5/7/2024 — Total Square Feet: 44,362 FT^2

Northwest Corner: N: 6796117 E: 2125683

QC Signature: [signature] — Reviewed By:

Appendix A2. Top of Waste Buyoff Survey *(continued)*



Appendix A3.
Interim Cover

Standard Proctor Test Results Summary
Lift Approval Summaries
Lift Approval Package
Buyoff Surveys

Appendix A3. Interim Cover Standard Proctor Test Results Summary

2024					
Proctor ID	**Date sampled**	**Date Approved**	**Max Dry Density**	**Optimum Moisture**	**Proctor Description**
RB/Interim Cover #6 2023	1/26/2023	2/1/2023	116.8 & 119.5	13.0 & 12.1	Weathered Shale
RB/Interim Cover #10 2023	2/8/2023	2/13/2023	121.8 & 130.0	11.8 & 9.0	Weathered Shale
RB/Interim Cover #23 2023	3/2/2023	3/16/2023	120.3 & 123.2	11.6 & 10.7	Weathered Shale
RB/Interim Cover RBS#1 2023	5/1/2023	5/10/2023	121.2 & 124.3	12.6 &11.5	Weathered Shale

Oversized (Rock) Correction

Appendix A3. Interim Cover Lift Approval Summaries

August 2024 Interim Cover										
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)
08//13/24	UI2K5N240715-00	16	15668	15,668	N/A	1.0	RB/INC #23,6,10,1	16	0	98.2

Average CBCS Screen Passing Pixels (%) = 0.0

Total Quantity Approved (yd^3) = 15,668

Total # of Nuclear Density Gauge Tests = 16

Total # of Moisture Tests = 16

Quantity per Moisture Test (yd^3) = 979

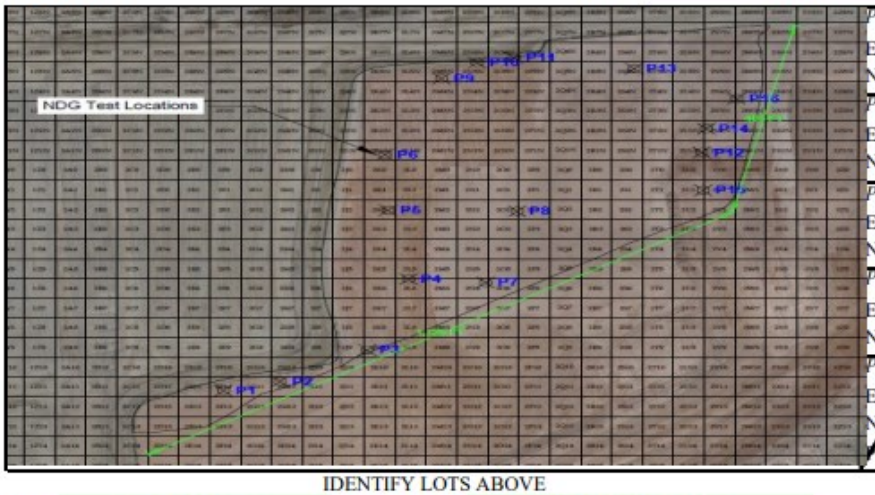
Total Average Thickness (ft) = 1.0

Appendix A3. Interim Cover Lift Approval Package

LIFT APPROVAL FORM

PROJECT: Moab UMTRA **OTHER**

NW CORNER **DATE:** 7/15/2024



P 1	See map for location		
EW:	X		=
NS:	X		=
P 2			
EW:	X		=
NS:	X		=
P 3	N		
EW:	X		=
NS:	X	A	=
P 4			
EW:	X		=
NS:	X		=
P 5			
EW:	X		=
NS:	X		=
Page 2 attached:	Y	N	

IDENTIFY LOTS ABOVE

LIFT ID: UI2K5N240715-00 NW CORNER: 6796260 N 2125200

Uncompacted Thickness: 1.0 Compacted Thickness: N/A Debris Insp. By: N/A Date: N/A Time: N/A

NW CORNER of debris placement: N/A EW Dimension 1,128' NS Dimension 483'

Lift Area (ft²): 423,031 Lift Volume (yd³): 15,668

Comments: QC visually confirmed that the lift area was scarified and free of roots and debris and moisture conditioned prior to placement. QC visually observed the material being placed to have proper moisture for compaction. Moisture content shall be within the range needed to achieve a minimum of 90% . Compaction was checked in the bottom half and the top half of the lift. Verification of in place density tests vere taken two for every 5,000 cubic yards. This is a one foot lift placed to design up to 2" above line, no minus tolerance, with a protecive layer of 8" (minimum). QC performed 16 nuclear density test on 16 different holes all tests vere surveyed for exact location (see map).. Note UI2K5N240715-00 is a lift area that was combined with 8 other lifts (see map). QC surveyed this lift for completion. QC performed a moisture test of the RB/INC pile . The computer based compaction was not used on this lift to generate a grid slope. This lift is verified from survey points from TOW to survey points Interim Cover and cad built astec design.

Attached Forms: **Grid Slope** N/A **Compaction Macro** N/A **Print Screen** N/A **Moisture/ Density** N/A

KEYING IN NOTES: [N] E S [W] Satisfactory MOISTURE/ DENSITY TESTS ID # (S): P1-P16 tests see map

LIFT APPROVED BY: Alfredo Tellez/ DATE: 8/13/2024 TIME: 0800

Tammy Hooker/
QA/QC APPROVAL DATE

Density Testing
DOE-EM/GJRAC1783
Rev. 1

QC-F-001
File index No. 43.8.2
Page ___ of ___

FIELD DENSITY TEST

PROJECT: Moab UMTRA	**Standard Count:**			**Date:** 7/15/2024	
Lift I D: UI2K5N240715-00	**MS=**	440	449	495	
Make/Model: Troxler 3430	**DS=**	2065	2060	2047	**Gauge Calibration Date:** 2/5/2024
Task RRM	**Sand-Cone and Plate No.**		N/A		**Sand-Cone Calibration Date:** N/A

Test No.	Depth (inches)	Test Location	Test NUC	Type Sand	MDD (pcf)	OMC (%)	WD (pcf)	DD (pcf)	MC (%)	Compaction (%)	Pass Fail	Soil Type	Proctor ID.	Date of Test
P1	6	See Map on Pg. 1	X	Weathered shale	120.3	10.7	120.3	115.1	4.8	95.6	P	CL	RB/INC 23	15-Jul
P2	8	See Map on Pg. 1	X	Weathered shale	120.3	10.7	129.7	119.3	8.6	99.2	P	CL	RB/INC 23	15-Jul
P3	4	See Map on Pg. 1	X	Weathered shale	130.0	9	127.3	121.6	4.7	98.9	P	CL	RB/INC 10	16-Jul
P4	6	See Map on Pg. 1	X	Weathered shale	116.8	13	122.5	112.3	9.1	96.1	P	CL	RB/INC 6	17-Jul
P5	8	See Map on Pg. 1	X	Weathered shale	116.8	13	126.2	115.6	9.2	99.0	P	CL	RB/INC 6	17-Jul
P6	6	See Map on Pg. 1	X	Weathered shale	116.8	13	119.3	110.9	7.5	95.0	P	CL	RB/INC 6	22-Jul
P7	8	See Map on Pg. 1	X	Weathered shale	116.8	13	126.3	114.7	10.2	98	P	CL	RB/INC 6	22-Jul

Legend: * indicates moisture and density correction for RRM only ** indicates a retest

Moisture Content:	P1@-6"	Moisture Content:	P2@-6"		
A. Container No.		A. Container No.			
B. Container Mass (g):		B. Container Mass:			
C. Mass of Container & Wet Soil (g)		C. Mass of Container & Wet Soil			
D. Mass of Container & Dry Soil (g)		D. Mass of Container & Dry Soil		ASTM	D698
E. Moisture Content (%)		E. Moisture Content			

Testing By: Alfredo Tellez / **Date:** **QA/QC Rep: R.** Tammy Hooker/

Print / Signature Print / Signature

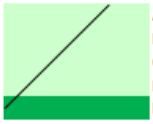
FIELD DENSITY TEST

PROJECT:	**Moab UMTRA**	**Standard Count:**							**Date:**	7/24/2024					
Lift I	D: UI2K5N240715-00		**MS=**	445	501	494									
Make/Model:	Troxler 3430		**DS=**	2013	2016	2012			**Gauge Calibration Date:**				2/5/2024		
Task	**RRM**	**Sand-Cone and Plate No.**				**N/A**			**Sand-Cone Calibration Date:**				N/A		

Test No.	Depth (inches)	Test Location	Test NUC	Type Sand	MDD (pcf)	OMC (%)	WD (pcf)	DD (pcf)	MC (%)	Compaction (%)	Pass Fail	Soil Type	Proctor ID.	Date of Test
P8	8"	See map page 1	X	weathered shale	124.3	11.5	143.1	132.0	8.4	106.2	P	CL	RB/INC RBS #1 2023	7/24/2024
P9	4"	See map page 1	X	weathered shale	116.8	13	124.0	112.4	10.4	96.2	P	CL	RB/INC #6	7/25/2024
P10	6"	See map page 1	X	weathered shale	120.3	11.6	125.2	116.0	7.9	96.4	P	CL	RB/INC #23	7/25/2024
P11	6"	See map page 1	X	weathered shale	120.3	11.6	125.8	116.1	8.3	96.8	P	CL	RB/INC #23	7/25/2024
P12	4"	See map page 1	X	weathered shale	116.8	13	119.3	111.3	7.2	95.3	P	CL	RB/INC #6	8/8/2024
P13	6"	See map page 1	X	weathered shale	116.8	13	121.6	113.7	6.9	97.3	P	CL	RB/INC #6	8/8/2024
P14	8"	See map page 1		weathered shale	116.8	13	130.2	122.3	9.1	105	P	CL	RB/INC #6	8/8/2024

Legend:* indicates moisture and density correction for rock correction dens ** indicates a retest

Moisture Content:
A. Container No.
B. Container Mass (g):
C. Mass of Container & Wet Soil (g)
D. Mass of Container & Dry Soil (g)
E. Moisture Content (%)



Moisture Content:
A. Container No.
B. Container Mass:
C. Mass of Container & Wet Soil
D. Mass of Container & Dry Soil
E. Moisture Content

ASTM **D698**

Testing By: Alfredo Tellez / **Date:**
Print / Signature

QA/QC Rep: R. Tammy Hooker/
Print / Signature

QC-F-002

File index No. 43.8.2

FIELD DENSITY TEST

PROJECT: Moab UMTRA	**Standard Count:**			**Date:** 8/8/2024	
Lift I D: UI2K5N240715-00	**MS=**	499	438		
Make/Model Troxler 3430	**DS=**	1999	2031	**Gauge Calibration Date:**	2/5/2024
Task RRM	**Sand-Cone and Plate No.**	N/A		**Sand-Cone Calibration Date:**	N/A

Test No.	Depth (inches)	Test Location	Test NUC	Type Sand	MDD (pcf)	OMC (%)	WD (pcf)	DD (pcf)	MC (%)	Compaction (%)	Pass Fail	Soil Type	Proctor ID.	Date of Test
P15	6	See Map on Pg. 1	X	Weathered shale	116.8	13	125.4	115.0	9.1	98.4	P	CL	RB/INC #6	8-Aug
P16	6	See Map on Pg. 1	X	Weathered shale	116.8	13	123.6	114.3	8.1	97.9	P	CL	RB/INC #6	8-Aug

Legend: * indicates moisture and density correction for RRM only ** indicates a retest

Moisture Content:	P1@-6"	Moisture Content:	P2@-6"		
A. Container No.		A. Container No.			
B. Container Mass (g):		B. Container Mass:			
C. Mass of Container & Wet Soil (g)		C. Mass of Container & Wet Soil			
D. Mass of Container & Dry Soil (g)		D. Mass of Container & Dry Soil		ASTM	D698
E. Moisture Content (%)		E. Moisture Content			

Testing By: Alfredo Tellez / **Date:** **QA/QC Rep: R.** Tammy Hooker/

Print / Signature Print / Signature

QC-F-002 File index No. 43.8.2

Project: Moab UMTRA

Report Date: 7/18/2024

Lift ID: UI2K5N240715-00

RB/INC #6

Item #	Sample ID: P1-6		Resulting % M.C.
1)	Container ID:	CAT	
2)	Mass of container:	216.5	
3)	Mass of container & wet soil:	536.1	
4)	Mass of container & dry soil:	507.8	9.72

Item #	Sample ID: *P2-12		Resulting % M.C.
1)	Container ID:		NA
2)	Mass of container:		
3)	Mass of container & wet soil:		
4)	Mass of container & dry soil:		#DIV/0!

Item #	Sample ID: *P1-18		Resulting % M.C.
1)	Container ID:		N
2)	Mass of container:		
3)	Mass of container & wet soil:		
4)	Mass of container & dry soil:		#DIV/0!

Item #	Sample ID: *P2-18		Resulting % M.C.
1)	Container ID:		N
2)	Mass of container:		
3)	Mass of container & wet soil:		
4)	Mass of container & dry soil:		#DIV/0!

Item #	Sample ID: PS		Resulting % M.C.
1)	Container ID:		N
2)	Mass of container:		
3)	Mass of container & wet soil:		
4)	Mass of container & dry soil:		#DIV/0!

Item #	Sample ID:		Resulting % M.C.
1)	Container ID:		N
2)	Mass of container:		
3)	Mass of container & wet soil:		
4)	Mass of container & dry soil:		#DIV/0!

$$\% \text{ M.C.} = \frac{\text{Item (3)} - \text{Item (4)}}{\text{Item (4)} - \text{Item (2)}} \times 100$$

Appendix A3. Interim Cover Buyoff Surveys

Environmental Management - Grand Junction Office
MOAB
UMTRA Project

Interim Cover Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 8/12/2024

In signing this document, the signatory agrees that the top of waste is complete and meets both the project specifications and RAIP requirements.

Excavation Area	Lift Area
	UI2K5N240715-00

Approver Name/Title	Signature	Sign Date
Don Janz/ CJ Operations/Site Mgr.		8/12/24
Tammy Hooker/ QA/QC Representative		8/12/2024
Kathy Turvy/ QA/AC Manager		8/14/2024
Alfredo Tellez QA/QC Representative		8-12-24
Comments		
This lift area was placed in 1' lift and compacted, graded and surveyed.		
Compaction was approved with 16 nuclear density tests with a minimum of 90%. With an average of 98.2%. This lift was compacted with a dozer and rubber tire loaded haul truck.		

Interim Cover Grade Verification Survey

Buyoff ID: 2K5N240715-00 Date: 8/12/2024

Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Δ in feet	Δ in inches
22004_stk	6795409.98	2124900.03	4990.06	4990.03	0.03	0.4
22040_stk	6795409.97	2124950.02	4989.79	4989.75	0.05	0.6
22076_stk	6795410.05	2125000.04	4989.50	4989.47	0.04	0.4
22113_stk	6795460.01	2125049.98	4990.43	4990.41	0.02	0.3
22150_stk	6795459.96	2125100.02	4990.18	4990.13	0.06	0.7
21967_stk	6795360.02	2124850.05	4989.14	4989.09	0.05	0.6
22003_stk	6795360.03	2124900.04	4988.82	4988.80	0.02	0.2
22039_stk	6795359.97	2124949.98	4988.57	4988.52	0.05	0.5
22077_stk	6795460.03	2124999.98	4990.73	4990.69	0.04	0.5
22226_stk	6795559.96	2125200.03	4992.08	4992.02	0.06	0.8
22263_stk	6795560.01	2125250.02	4991.75	4991.73	0.02	0.2
22301_stk	6795610.03	2125299.99	4992.73	4992.68	0.06	0.7
22374_stk	6795660.02	2125400.01	4993.39	4993.34	0.05	0.6
22338_stk	6795659.96	2125350.01	4993.68	4993.62	0.06	0.7
22302_stk	6795659.95	2125299.96	4993.93	4993.90	0.03	0.3
22265_stk	6795659.97	2125250.05	4994.20	4994.19	0.02	0.2
22228_stk	6795659.95	2125200.01	4994.53	4994.47	0.06	0.7
22191_stk	6795659.97	2125150.01	4994.80	4994.75	0.06	0.7
22227_stk	6795610.03	2125200.03	4993.27	4993.24	0.02	0.3
22264_stk	6795609.96	2125249.99	4992.98	4992.96	0.02	0.3
22192_stk	6795710.02	2125149.99	4996.01	4995.97	0.03	0.4
22229_stk	6795710.00	2125200.02	4995.73	4995.69	0.04	0.4
22266_stk	6795710.04	2125249.98	4995.45	4995.41	0.03	0.4
22303_stk	6795710.03	2125299.96	4995.15	4995.13	0.02	0.3
22339_stk	6795709.96	2125350.00	4994.89	4994.85	0.04	0.5
22375_stk	6795709.97	2125400.00	4994.62	4994.56	0.06	0.7
22411_stk	6795710.02	2125449.96	4994.32	4994.28	0.03	0.4
22193_stk	6795760.01	2125149.95	4996.65	4996.60	0.04	0.5
22230_stk	6795759.97	2125200.00	4996.60	4996.57	0.03	0.3
22267_stk	6795759.99	2125249.97	4996.56	4996.54	0.02	0.2
22304_stk	6795760.01	2125299.99	4996.39	4996.35	0.03	0.4
22340_stk	6795760.02	2125350.00	4996.10	4996.07	0.03	0.3
22376_stk	6795760.04	2125400.01	4995.84	4995.79	0.05	0.6
22412_stk	6795760.05	2125449.96	4995.56	4995.51	0.05	0.6
22448_stk	6795760.01	2125500.02	4995.25	4995.23	0.03	0.3
22485_stk	6795760.03	2125550.02	4995.00	4994.94	0.06	0.7
22486_stk	6795809.98	2125550.00	4995.40	4995.35	0.05	0.6
22449_stk	6795809.99	2125500.00	4995.44	4995.38	0.06	0.8
22413_stk	6795810.02	2125450.00	4995.44	4995.41	0.03	0.4
22450_stk	6795859.96	2125499.96	4994.39	4994.37	0.02	0.3
22487_stk	6795859.97	2125549.96	4994.39	4994.34	0.05	0.6
22414_stk	6795860.05	2125450.05	4994.44	4994.40	0.04	0.5
22377_stk	6795810.02	2125400.04	4995.49	4995.44	0.05	0.6
22341_stk	6795809.96	2125350.00	4995.51	4995.47	0.03	0.4
22305_stk	6795810.01	2125299.98	4995.56	4995.50	0.06	0.7
22268_stk	6795809.97	2125250.00	4995.55	4995.53	0.02	0.3
22231_stk	6795809.99	2125199.97	4995.58	4995.56	0.02	0.3
22194_stk	6795809.98	2125150.01	4995.65	4995.59	0.06	0.7
22195_stk	6795859.98	2125149.97	4994.61	4994.58	0.03	0.4
22232_stk	6795859.97	2125200.05	4994.60	4994.55	0.04	0.5
22269_stk	6795859.99	2125249.97	4994.59	4994.52	0.06	0.8
22306_stk	6795859.96	2125300.01	4994.53	4994.49	0.04	0.4
22342_stk	6795859.99	2125350.06	4994.52	4994.46	0.06	0.7
22378_stk	6795860.01	2125399.99	4994.46	4994.43	0.03	0.4
22379_stk	6795909.97	2125399.94	4993.47	4993.42	0.05	0.6
22415_stk	6795910.05	2125449.96	4993.43	4993.39	0.04	0.5
22451_stk	6795909.95	2125500.00	4993.40	4993.36	0.04	0.5
22488_stk	6795909.95	2125550.01	4993.38	4993.33	0.05	0.6
22343_stk	6795909.98	2125350.01	4993.50	4993.45	0.05	0.5
22307_stk	6795910.01	2125299.93	4993.51	4993.48	0.03	0.3
22270_stk	6795910.06	2125250.01	4993.55	4993.51	0.04	0.5
22233_stk	6795910.06	2125200.02	4993.58	4993.55	0.04	0.4
22196_stk	6795909.97	2125150.02	4993.60	4993.58	0.03	0.3

Interim Cover
Grade Verification Form

NORTHWIND

Appendix A3. Interim Cover Buyoff Surveys (*continued)*

22234_stk	6795959.98	2125200.01	4992.59	4992.54	0.06	0.7
22271_stk	6795959.99	2125250.02	4992.53	4992.51	0.02	0.3
22308_stk	6795959.95	2125300.03	4992.50	4992.47	0.02	0.3
22344_stk	6795960.01	2125350.04	4992.48	4992.44	0.04	0.4
22380_stk	6795959.98	2125400.06	4992.45	4992.41	0.04	0.5
22416_stk	6795960.04	2125450.05	4992.42	4992.38	0.04	0.4
22452_stk	6795960.02	2125499.96	4992.40	4992.35	0.05	0.6
22489_stk	6795960.02	2125549.96	4992.36	4992.32	0.05	0.5
22235_stk	6796010.04	2125199.95	4991.57	4991.53	0.05	0.6
22272_stk	6796009.97	2125249.95	4991.55	4991.50	0.06	0.7
22309_stk	6796010.07	2125300.01	4991.51	4991.46	0.05	0.6
22345_stk	6796010.03	2125350.04	4991.48	4991.43	0.05	0.6
22381_stk	6796010.03	2125399.98	4991.44	4991.40	0.04	0.5
22417_stk	6796009.98	2125450.01	4991.39	4991.37	0.02	0.3
22453_stk	6796010.01	2125499.94	4991.36	4991.34	0.02	0.2
22490_stk	6796010.05	2125550.01	4991.37	4991.31	0.06	0.8
22491_stk	6796060.01	2125549.95	4990.35	4990.30	0.05	0.6
22454_stk	6796060.04	2125499.97	4990.36	4990.33	0.03	0.4
22418_stk	6796059.95	2125450.04	4990.41	4990.36	0.05	0.6
22382_stk	6796060.02	2125400.05	4990.45	4990.39	0.06	0.7
22346_stk	6796059.98	2125350.03	4990.44	4990.42	0.02	0.3
22310_stk	6796059.96	2125300.03	4990.50	4990.45	0.04	0.5
22273_stk	6796059.96	2125250.03	4990.53	4990.48	0.05	0.6
22236_stk	6796059.99	2125199.97	4990.58	4990.51	0.07	0.8
22237_stk	6796109.97	2125199.98	4989.55	4989.50	0.05	0.6
22274_stk	6796109.96	2125250.02	4989.50	4989.47	0.02	0.3
22311_stk	6796109.98	2125299.96	4989.47	4989.44	0.02	0.3
22347_stk	6796109.95	2125349.99	4989.47	4989.41	0.06	0.7
22383_stk	6796110.05	2125400.02	4989.44	4989.38	0.05	0.6
22419_stk	6796109.97	2125450.05	4989.40	4989.35	0.05	0.6
22455_stk	6796110.04	2125500.04	4989.35	4989.32	0.03	0.4
22492_stk	6796110.04	2125550.02	4989.33	4989.29	0.04	0.5
22493_stk	6796160.03	2125550.04	4988.33	4988.28	0.06	0.7
22456_stk	6796159.96	2125499.96	4988.34	4988.31	0.03	0.4
22420_stk	6796160.00	2125450.01	4988.38	4988.34	0.04	0.5
22384_stk	6796160.03	2125400.02	4988.42	4988.37	0.05	0.6
22312_stk	6796159.99	2125300.03	4988.48	4988.43	0.05	0.6
22275_stk	6796160.04	2125250.00	4988.51	4988.46	0.05	0.6
22238_stk	6796159.96	2125199.97	4988.51	4988.49	0.02	0.2
22239_stk	6796209.95	2125200.07	4987.50	4987.48	0.02	0.2
22276_stk	6796209.96	2125250.05	4987.48	4987.45	0.04	0.4
22313_stk	6796209.98	2125300.06	4987.46	4987.42	0.04	0.5
22349_stk	6796209.99	2125349.99	4987.42	4987.39	0.03	0.4
22385_stk	6796210.01	2125399.94	4987.42	4987.36	0.06	0.7
22421_stk	6796210.03	2125450.02	4987.35	4987.33	0.02	0.3
22457_stk	6796210.03	2125500.02	4987.35	4987.30	0.05	0.7
22494_stk	6796210.02	2125549.98	4987.31	4987.27	0.04	0.5
22458_stk	6796260.05	2125499.98	4986.32	4986.28	0.04	0.4
22422_stk	6796260.03	2125449.97	4986.36	4986.31	0.05	0.6
22386_stk	6796260.05	2125399.97	4986.38	4986.35	0.03	0.4
22350_stk	6796260.04	2125349.97	4986.40	4986.38	0.02	0.3
22348_stk	6796160.02	2125350.05	4988.46	4988.40	0.06	0.7
22523_stk	6795809.95	2125599.97	4995.35	4995.32	0.03	0.4
22524_stk	6795860.03	2125600.03	4994.32	4994.31	0.02	0.2
22525_stk	6795910.04	2125600.02	4993.34	4993.30	0.05	0.6
22526_stk	6795959.99	2125599.97	4992.33	4992.29	0.04	0.5
22527_stk	6796009.94	2125600.03	4991.33	4991.26	0.05	0.6
22528_stk	6796059.96	2125600.05	4990.30	4990.27	0.03	0.4
22529_stk	6796110.02	2125599.97	4989.28	4989.26	0.02	0.3
22530_stk	6796159.99	2125600.00	4988.29	4988.25	0.04	0.5
22531_stk	6796210.01	2125600.02	4987.27	4987.24	0.03	0.4
22532_stk	6796260.02	2125600.02	4986.27	4986.22	0.05	0.6
22533_stk	6796310.02	2125600.05	4985.24	4985.21	0.03	0.3
22496_stk	6796309.96	2125550.01	4985.26	4985.24	0.02	0.2
22459_stk	6796310.04	2125500.01	4985.32	4985.27	0.05	0.6
22495_stk	6796260.00	2125550.04	4986.32	4986.25	0.06	0.8
22570_stk	6796310.05	2125649.99	4985.20	4985.18	0.02	0.3
22569_stk	6796259.96	2125649.97	4986.22	4986.19	0.03	0.4

Interim Cover
Grade Verification Form

NORTHWIND PORTAGE, INC.

Appendix A3. Interim Cover Buyoff Surveys (*continued)*

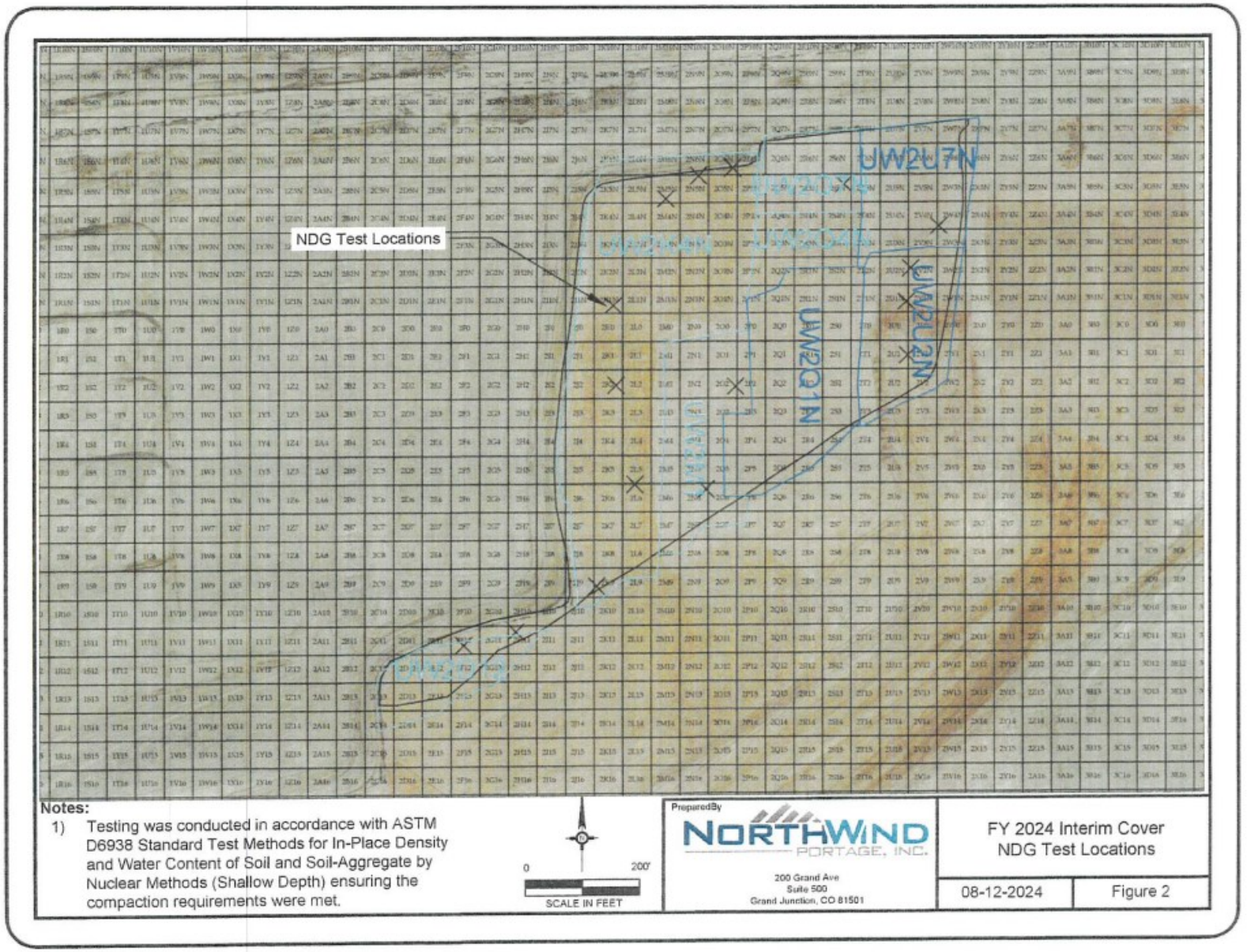
22588_stk	6796209.98	2125650.04	4987.25	4987.21	0.04	0.5
22587_stk	6796160.05	2125649.98	4988.26	4988.22	0.04	0.5
22586_stk	6796110.05	2125649.97	4989.28	4989.23	0.05	0.6
22585_stk	6796060.02	2125650.05	4990.26	4990.24	0.02	0.2
22584_stk	6796009.99	2125650.06	4991.31	4991.25	0.06	0.7
22583_stk	6795960.03	2125649.95	4992.31	4992.26	0.05	0.6
22582_stk	6795909.98	2125650.01	4993.32	4993.27	0.06	0.7
22581_stk	6795859.94	2125650.01	4994.31	4994.28	0.04	0.4
22598_stk	6795860.04	2125700.01	4994.30	4994.24	0.06	0.6
22599_stk	6795909.99	2125700.02	4993.28	4993.23	0.05	0.6
22600_stk	6795960.04	2125699.96	4992.28	4992.23	0.05	0.6
22601_stk	6796010.02	2125700.04	4991.25	4991.22	0.03	0.4
22602_stk	6796059.99	2125700.02	4990.23	4990.21	0.02	0.3
22603_stk	6796110.00	2125699.94	4989.25	4989.20	0.05	0.6
22604_stk	6796159.98	2125700.01	4988.25	4988.19	0.06	0.7
22605_stk	6796209.97	2125700.04	4987.23	4987.18	0.06	0.7
22606_stk	6796260.03	2125699.97	4986.22	4986.16	0.05	0.6
22607_stk	6796309.95	2125699.99	4985.21	4985.15	0.06	0.7
22643_stk	6796310.04	2125749.97	4985.15	4985.12	0.03	0.3
22642_stk	6796260.03	2125749.97	4986.17	4986.13	0.04	0.5
22641_stk	6796209.98	2125750.03	4987.19	4987.14	0.05	0.6
22640_stk	6796159.95	2125749.99	4988.20	4988.16	0.05	0.6
22639_stk	6796110.06	2125750.03	4989.19	4989.17	0.03	0.3
22635_stk	6795909.97	2125750.02	4993.23	4993.20	0.02	0.3
22636_stk	6795959.98	2125750.06	4992.23	4992.19	0.04	0.4
22637_stk	6796010.02	2125749.99	4991.21	4991.19	0.02	0.3
22638_stk	6796060.05	2125750.03	4990.22	4990.18	0.04	0.5
22674_stk	6796059.97	2125800.02	4990.19	4990.14	0.04	0.5
22675_stk	6796109.96	2125800.00	4989.19	4989.13	0.05	0.6
22676_stk	6796160.01	2125799.97	4988.18	4988.12	0.05	0.6
22677_stk	6796210.03	2125799.99	4987.17	4987.11	0.06	0.7
22678_stk	6796259.96	2125800.01	4986.16	4986.10	0.06	0.7
22679_stk	6796310.06	2125799.99	4985.11	4985.09	0.02	0.3
22673_stk	6796009.99	2125800.04	4991.20	4991.15	0.04	0.5
22672_stk	6795960.00	2125800.02	4992.22	4992.16	0.06	0.7
22314_stk	6796259.96	2125299.99	4986.44	4986.41	0.03	0.4

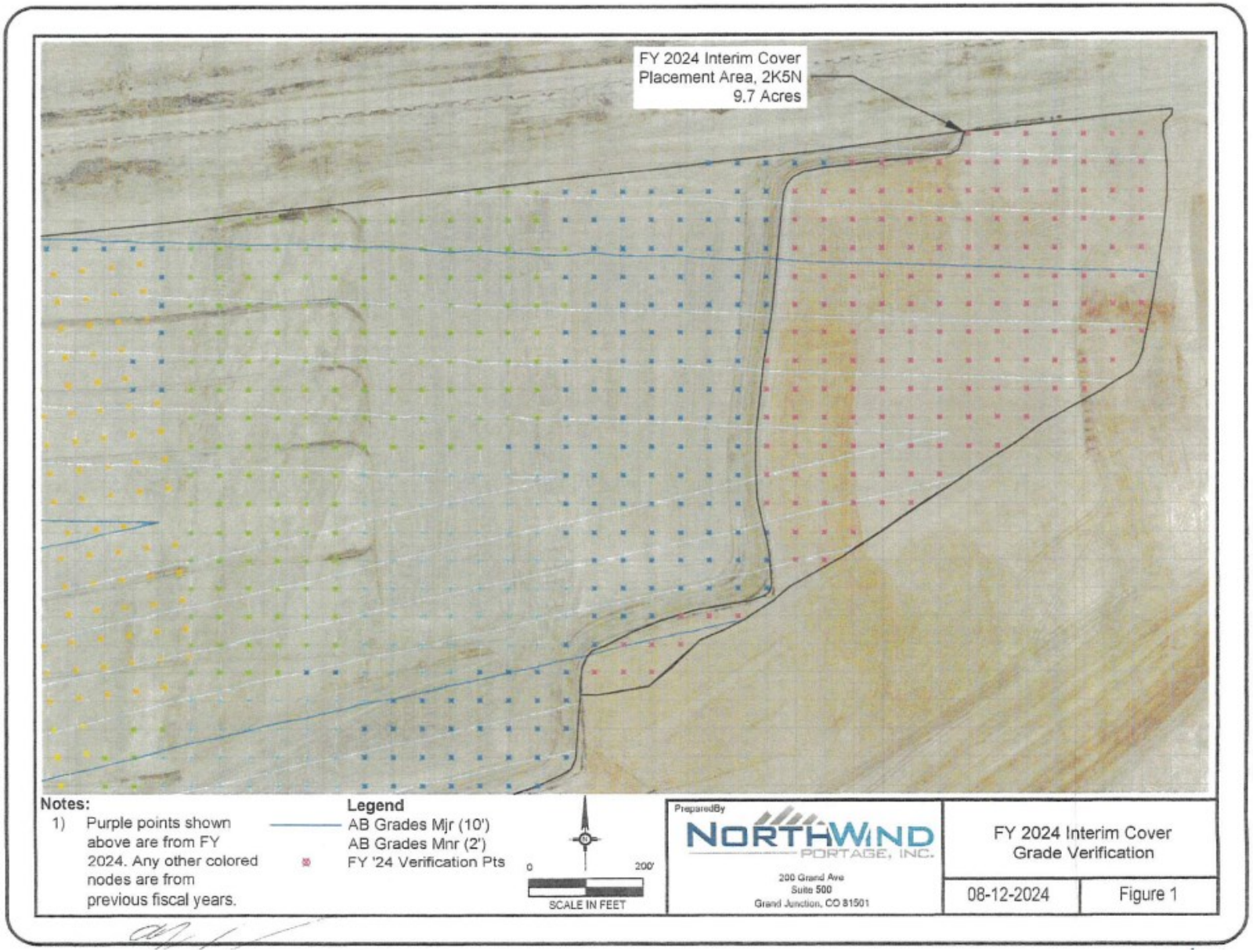
Comments: QC performed a visual inspection of the final surface with satisfactory results. The grading tolerance for this cap layer is -0 FT to +0.17 FT (-0 IN to +2 IN).

Approval Date: **Total Square Feet:** 423,031

Northwest Corner: N: 6796260, E: 2125200

QC Signature: **Reviewed By:**


NDG Test Locations
UW2U7N
UW2U2N
UW2Q1N
Notes:
1) Testing was conducted in accordance with ASTM D6938 Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth) ensuring the compaction requirements were met.
0
200'
SCALE IN FEET
Prepared By
NORTHWIND PORTAGE, INC.
200 Grand Ave
Suite 500
Grand Junction, CO 81501
FY 2024 Interim Cover
NDG Test Locations
08-12-2024
Figure 2


FY 2024 Interim Cover
Placement Area, 2K5N
9.7 Acres
Notes:
1) Purple points shown above are from FY 2024. Any other colored nodes are from previous fiscal years.
Legend
AB Grades Mjr (10')
AB Grades Mnr (2')
FY '24 Verification Pts
0
200'
SCALE IN FEET
PreparedBy
NORTHWIND
PORTAGE, INC.
200 Grand Ave
Suite 500
Grand Junction, CO 81501
FY 2024 Interim Cover
Grade Verification
08-12-2024
Figure 1