Appendix A.
Construction Verification Data

Crescent Junction Disposal Cell Interim Completion Report Addendum A
Appendix A. Construction Verification Data

Contents

A1. Perimeter Embankment

Standard Proctor Test Results Summary

Lift Approval Summary

Lift Approval Package

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A1. Perimeter Embankment
Standard Proctor Test Results Summary

Proctor ID #	Date Sampled	Date Approved	Maximum Dry Density (lb/ft^3)	Optimum Moisture Content (%)	Soils Description
Top Soil #1	01/04/10	02/08/10	115.6	12.3	Gray in color consist of mostly fines
Top Soil #2	01/15/10	02/08/10	116.6	13.9	Grayish-red in color
Top Soil #3	01/21/10	02/08/10	113.5	13.9	Grayish in color consist of mostly fines
Top Soil #4	02/12/10	02/18/10	110.3	14.5	Grayish in color consist of mostly fines
Top Soil #5	03/12/10	03/30/10	114.1	13.5	Grayish in color consist of mostly fines
Top Soil #6	03/25/10	03/30/10	116.7	13.0	Grayish in color consist of mostly fines
Top Soil #7	04/01/10	06/08/10	117.2	12.3	Brownish-gray in color consists mostly fines
Top Soil #8	04/07/10	06/08/10	117.3	12.9	Brownish-gray in color consists mostly fines
Top Soil #9	04/15/10	06/08/10	118.4	11.9	Brownish-gray in color consists mostly fines
Top Soil #10	04/20/10	06/08/10	119.9	11.7	Material contains a small amount of shale and is gray in color
Top Soil #11	04/27/10	06/08/10	118.2	12.2	Material contains a small amount of shale and is gray in color
Top Soil #12	05/03/10	06/08/10	117.8	13.1	Gray in color consist of mostly fines
Top Soil #13	05/06/10	06/08/10	115.7	13.8	Gray in color consist of mostly fines
Top Soil #14	05/12/10	06/08/10	116.1	12.6	Gray in color consist of mostly fines
Top Soil #15	05/18/10	06/08/10	115.0	13.9	Gray in color consist of mostly fines
Top Soil #16	05/24/10	06/08/10	118.2	12.0	Gray in color consist of mostly fines
Top Soil #17	05/27/10	06/08/10	120.3	10.8	Gray in color consist of mostly fines
Top Soil #18	06/03/10	06/14/10	116.1	11.0	Grayish-yellow in color consist of mostly fines
Top Soil #19	06/08/10	06/14/10	120.2	11.4	Grayish-yellow in color consist of mostly fines
Top Soil #20	06/14/10	06/30/10	117.6	13.0	Gray in color consist of mostly fines
Top Soil #21	06/17/10	06/30/10	119.7	13.1	Gray in color consist of mostly fines
Top Soil #22	06/23/10	06/30/10	119.5	12.3	Gray in color consist of mostly fines
Top Soil #23	07/07/10	07/29/10	115.0	11.2	Gray in color consist of mostly fines
Top Soil #24	07/19/10	07/29/10	117.0	10.8	Grayish-yellow in color consist of mostly fines
Top Soil #25	07/26/10	07/29/10	117.3	10.9	Gray in color consist of mostly fines
Top Soil #26	08/02/10	08/26/10	115.7	11.7	Gray in color consist of mostly fines
Top Soil #27	08/12/10	08/26/10	117.1	11.8	Gray in color consist of mostly fines
Top Soil #28	08/24/10	09/07/10	119.4	11.4	Gray in color consist of mostly fines
Top Soil #29	08/30/10	09/07/10	118.8	10.7	Gray in color consist of mostly fines
Top Soil #30	09/09/10	09/24/10	119.6	11.2	Gray in color consist of mostly fines
Top Soil #31	09/13/10	10/04/10	119.4	11.3	Gray in color consist of mostly fines
Top Soil #32	09/15/10	10/04/10	118.0	11.4	Gray in color consist of mostly fines
Top Soil #33	09/16/10	10/04/10	119.6	11.3	Gray in color consist of mostly fines
Top Soil #34	09/20/10	10/04/10	118.0	11.9	Gray in color consist of mostly fines
Top Soil #35	09/21/10	10/04/10	116.8	12.4	Reddish in color consist of mostly fines
Top Soil #36	09/23/10	10/05/10	117.8	12.0	Grayish in color consist of mostly fines
Top Soil #37	09/27/10	10/05/10	118.7	11.9	Grayish in color consist of mostly fines
Top Soil #38	09/29/10	10/06/10	119.7	11.6	Grayish in color consist of mostly fines
Top Soil #39	10/04/10	10/15/10	118.1	12.0	Grayish in color consist of mostly fines
Top Soil #40	10/07/10	10/15/10	118.8	11.8	Grayish in color consist of mostly fines
Top Soil #41	10/12/10	11/01/10	118.1	11.7	Grayish in color consist of mostly fines
Top Soil #42	10/14/10	11/01/10	116.7	11.7	Grayish in color consist of mostly fines
Top Soil #43	10/19/10	11/16/10	118.4	11.0	Grayish in color consist of mostly fines
Top Soil #44	11/15/10	12/08/10	118.7	12.0	Light tan in color and consists mostly of fines
Top Soil #45	11/18/10	12/08/10	118.8	12.7	Light tan in color and consists mostly of fines
Top Soil #46	11/23/10	12/08/10	117.7	12.1	Light tan in color and consists mostly of fines
Top Soil #47	11/29/10	12/08/10	115.3	12.6	Light tan in color and consists mostly of fines
Top Soil #48	12/06/10	12/21/10	117.4	11.6	Light tan in color and consists mostly of fines
Top Soil #49	12/08/10	12/21/10	118.7	11.8	Light tan in color and consists mostly of fines
Top Soil #50	12/13/10	12/21/10	115.4	12.0	Grayish in color consist of mostly fines

% = percent; lb/ft^3 = pounds per cubic foot

A1. Perimeter Embankment
Lift Approval Summary

Date	Lift ID #	Area (ft.²)	# of Nuclear Density Gauge Tests	Quantity Approved (yd^3)	Average Thickness (ft.)	# of Lifts Approved	Average Compaction (%)	Notes
06/04/08	West Embankment	93,000	10	6,200	1.8	4	99.1	
06/05/08	West Embankment	93,000	10	8,611	2.5	4	97.9	
06/06/08	West Embankment	93,000	5	4,133	1.2	2	98.4	
06/09/08	West Embankment	108,500	6	6,430	1.6	3	98.9	
06/26/08	South Embankment	88,200	3	2,613	0.8	1	95.9	
07/01/08	South Embankment	88,200	4	2,613	0.8	2	95.7	
07/02/08	West Embankment	124,000	2	3,674	0.8	1	96.2	
07/03/08	West Embankment	124,000	6	8,726	1.9	3	97.0	
07/07/08	South Embankment	84,000	9	6,844	2.2	3	97.1	
07/08/08	South Embankment	80,640	12	6,272	2.1	4	97.3	
07/09/08	South Embankment	75,600	9	5,600	2	4	97.1	
07/10/08	South Embankment	54,600	12	6,471	3.2	5	98.2	
07/14/08	West Embankment	96,000	2	5,333	1.5	2	96.2	
07/14/08	South Embankment	32,760	6	4,611	3.8	5	97.5	
07/15/08	West Embankment	54,250	6	3,014	1.5	3	98.4	
07/16/08	West Embankment	65,100	8	6,028	2.5	4	97.1	
07/17/08	West Embankment	57,600	8	5,333	2.5	4	97.5	
07/21/08	West Embankment	65,100	8	6,028	2.5	4	98.0	
07/22/08	West Embankment	54,000	1	1,400	0.7	1	95.8	
10/13/10	UET32101006-00	122,500	3	0	0	1	95.4	1
10/15/10	UET32101015-00	122,500	3	2,722	0.6	1	96.1	
10/15/10	UET32101015-01	122,500	3	2,722	0.6	1	97.9	
12/13/10	UET32101015-01	122,500	3	2,722	0.6	1	97.5	
12/13/10	UET32101213-00	122,500	3	2,722	0.6	1	96.4	
12/14/10	UE1F33101214-00	132,000	3	2,933	0.6	1	96.3	
12/14/10	UE1F33101214-01	128,000	3	2,844	0.6	1	95.9	
12/15/10	UE1F33101215-00	124,000	3	3,215	0.7	1	98.2	
12/15/10	UE1F33101215-01	120,000	3	2,667	0.6	1	96.5	
12/16/10	UE1F33101216-00	116,000	3	2,578	0.6	1	96.0	
12/16/10	UE1F33101216-01	112,000	3	24,889	0.6	1	97.8	
03/10/11	UE1F33101216-01	112,000	3	2,489	0.6	1	99.3	
03/14/11	UE1F33110314-00	6,750	2	175	0.7	1	98.8	
03/14/11	UE1F33110314-01	6,750	2	175	0.7	1	98.3	
03/14/11	UE1F33110314-02	104,000	3	2,311	0.6	1	98.1	
03/15/11	UE1F33110315-00	100,000	3	2,222	0.6	1	97.1	
03/16/11	UE1F33110316-00	96,000	2	2,489	0.7	1	97.8	
03/16/11	UE1F33110316-01	92,000	2	2,385	0.7	1	98.1	
03/17/11	UE1F33110317-00	88,000	2	1,956	0.6	1	98.0	
03/17/11	UE1F33110317-01	84,000	2	1,867	0.6	1	98.3	
03/22/11	UE1F33110322-00	80,000	2	2,074	0.7	1	97.2	
03/23/11	UE1F33110323-00	76,000	2	2,346	0.7	1	98.3	
03/23/11	UE1F33110323-01	72,000	2	2,222	0.7	1	97.1	
06/03/11	UE1G33110603-00	55,250	2	1,705	0.7	1	96.4	
06/06/11	UE1G33110606-00	52,000	2	1,605	0.7	1	96.4	
06/07/11	UE1G33110607-00	48,750	2	1,505	0.7	1	97.4	
06/07/11	UE1G33110607-01	45,500	2	1,404	0.7	1	98.6	
06/08/11	UE1G33110608-00	42,250	2	1,304	0.7	1	97.3	
06/08/11	UE1G33110608-01	39,000	2	1,204	0.7	1	98.4	
06/14/11	UE1G33110614-00	32,500	2	702	0.6	1	97.2	
06/20/11	UE1G33110620-00	15,750	4	438	0.6	1	98.0	
06/20/11	UE1G33110620-01	4,500	1	125	0.6	1	97.7	
06/21/11	UE1G33110621-00	4,500	1	125	0.8	1	99.7	

A1. Perimeter Embankment
Lift Approval Summary

Date	Lift ID #	Area (ft.²)	# of Nuclear Density Gauge Tests	Quantity Approved (yd^3)	Average Thickness (ft.)	# of Lifts Approved	Average Compaction (%)	Notes
06/21/11	UE1G33110621-01	4,500	1	83	0.5	1	99.5	

Total Quantity Approved (yd^3) = 182,860
Total # of Nuclear Density Gauge Tests = 208
Quantity per Nuclear Density Gauge Test (yd^3) = 879
Total Average Compaction (%) = 97.5

1. The North Embankments native ground was above the design grade. Therefore, this area had no fill to design grade and all material was cut to design grade.

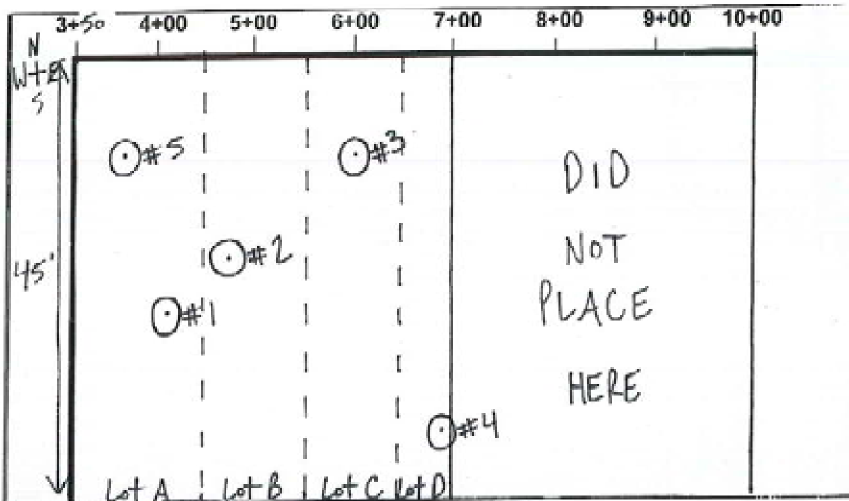
CJ 845

ENERGYSOLUTIONS

LIFT APPROVAL FORM

PROJECT: Moab UMTRA Project   OTHER ______

NW CORNER   DATE: 6-20-11



P 1 Lot A			
EW: 100	X .648	=	64.8
NS: 45	X .398	=	17.9
P 2 Lot B			
EW: 100	X .321	-	32.1
NS: 45	X .546	-	~~25~~ 24.6
P 3 Lot C			
EW: 100	X .508	-	50.8
NS: 45	X .725	-	32.6
P 4 Lot D			
EW: 50	X .797	-	39.9
NS: 45	X .269	-	12.1
P 5 Lot A			
EW: 100	X .262	-	26.2
NS: 45	X .816	-	36.7

Page 2 attached: Y N

UE1G3311 0620-00 (28th) IDENTIFY LOTS ABOVE

LIFT ID: UE1G3311 0620-01 (29th)   NW CORNER: 6794295 N. 2123754 E

THICKNESS: UNC: 9"   COM: 7"   ELEV: N/A   Debris Insp. By: N/A   Date: N/A   Time: N/A

Comments: 28th Lift
Test #1 taken at 4+15, 20 ft. north of south slope (sandcone taken)
Test #2 " " 4+80, 25 ft. " " " "
Test #3 " " 6+00, 35 ft. " " " "
Test #4 " " 6+90, 10 ft. " " " "
29th Lift
Test #5 taken at 3+75, 35 ft. north of south slope

These two lifts were placed on the Cell Perimeter Embankment. The 28th lift was placed from stations 3+50 to 7+00. The 29th lift was placed from stations 3+50 to 4+50. Both lifts are 45 ft. NS. The 28th lift is 15,750 ft² with approximately 438 yds³ approved on it. The 29th lift is 4,500 ft² with approximately 125 yds³ approved on it. Starting points are in the SW corner of each lot.

KEYING IN NOTES: N E S W N/A   DENSITY TESTS ID # (S): 1-5

LIFT APPROVED BY: [signature]   DATE: 6-20-11   TIME: 14:30 / 17:00 (28th / 29th)

[signature]   07-05-2011
QA/QC APPROVAL   DATE

Density Testing
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JOHANSEN & TUTTLE ENGINEERING

NUCLEAR RELATIVE COMPACTION TEST DATA

PROJECT: UMTRA CRESCENT JUNCTION DATE: 6-20-11

LOCATION: Cell Perimeter Embankment TESTED BY: KK

DENSITY/MOISTURE STANDARDS: 2382 / 652 ON CELL OFF CELL

SERIAL NUMBER OF GAUGE: 25142 Last calibration date: March 7, 2011 Model 3430

TEST NUMBER	1	2	3	4	5	6	7	8	9
STATION			See Grid Sheet.						
ELEVATION	28th Lift	-	-	-	29th Lift				
DEPTH	8"	-	-	-	-				
TIME	1 MIN	1 MIN	1 MIN	1 MIN	1 MIN	1 MIN	1 MIN	1 MIN	1 MIN
WET DENSITY (LBS/FT³)	128.7	130.5	127.0	130.0	125.5		N		
DRY DENSITY (LBS/FT³)	113.3	113.4	111.9	115.6	113.0			A	
PROCTOR ID#	Top Soil #3(2011)	-	-	-	-				
MAX. DRY DENSITY	115.6	-	-	-	-				
OPTIMUM MOISTURE	13.9	-	-	-	-				
% MOISTURE	13.6	15.1	13.4	12.5	11.1				
% COMPACTION	98.0 S.C.	98.1	96.8	100.0	97.7				

NOTE: ALL TESTS ARE DIRECT TRANSMISSION.

REMARKS: Sandcone taken on test # 1

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JOHANSEN & TUTTLE ENGINEERING

Phone: 435-381-2523 · Fax: 435-381-2522

PROJECT	UMTRA	DATE	6/20/2011
JOB NUMBER	CRESCENT JUNCTION	SAMPLE NUMBER	Troxler Test # 1

Cell Perimeter Embankment

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus 1 Calibrated Vol. (ft3) 0.1405
Bulk Density of sand 1.25 g/cm3 | 78.1 | lbs/ft3

Mass of Sand to Fill Cone & Plate (M2)	1421.0	g
Proctor ID #	Top Soil # 3 (201	
Max dry density	115.6	lbs/ft3
Opt. moisture	13.9	% Moisture
Mass of bottle & cone before filling cone, plate & hole	5273.0	g
Mass of bottle & cone after filling cone, plate & hole	1896.6	g
Mass of sand to fill cone & plate	1421.0	g
Mass of sand to fill hole	1955.4	g
Mass of wet soil & container	4660.5	g
Mass of dry soil & container	4235.2	g
Weight of Water	425.3	
Mass of container	1375.0	g
Weight of dry soil	2860.2	g
Water Content	14.9	%
Weight of wet soil	3285.5	g
Test Hole Volume	0.0551	
Wet Denisty	131.2	lbs/ft3
Dry Denisty	114.2	lbs/ft3
Percent Moisture	14.9	%
Percent Compaction	98.8	%
Proctor	115.6	lbs/ft3

TESTED BY: Kevin Keele *Kevin Keele*

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A1. Perimeter Embankment
Lift Approval Package

See back

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A1. Perimeter Embankment
Lift Approval Package

See back

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A1. Perimeter Embankment Lift Approval Package

See back

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A2. RRM

CAES Test Pad Lift Approval Packages

CAES-Equipped 825H Compactor Lift Approval Packages

Standard Proctor Test Results Summary

Lift Approval Summaries

Lift Approval Package

Top of Waste Buyoff Surveys

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A2. RRM
CAES Test Pad Lift Approval Packages

ENERGYSOLUTIONS

LIFT APPROVAL FORM

OTHER ________

PROJECT: Moab UMTRA Project

DATE: 4/7/2009

NW CORNER

N A 4-8-07 BB

P 1	N 6795007 E 2121182				
EW:	30	X	0.619	=	19
NS:	48	X	0.235	=	11
P 2	N 6794981 E 2121185				
EW:	30	X	0.912	=	27
NS:	48	X	0.452	=	22
P 3	N 6794982 E 2121169				
EW:	30	X	0.862	=	26
NS:	48	X	0.123	=	6
P 4	N 6795004 E 2121171				
EW:	30	X	0.452	=	14
NS:	48	X	0.162	=	8
P 5					
EW:		X		=	
NS:		X		=	
Page 2 attached:			Y		N

IDENTIFY LOTS ABOVE

LIFT ID: Test Pad # 2 NW CORNER: N 6795018 E 2121163

THICKNESS: UNC: 12" COM: See page 3 ELEV: N/A Debris Insp. By: N/A Date: N/A Time: N/A

Comments:
The Lift was placed on a 5 to 1 slope. 3 machine passes were performed across the lift area see attached data for detailed information. (Machine weight is 63,300lbs). Nuclear Density tests were performed after 3 passes to verify that the lift area met 90% compaction. Attached are the testing results. This lift was completed as a test pad to verify the CAES Office System.

KEYING IN NOTES: N E S W N/A DENSITY TESTS ID # (S): 1 thru 4

LIFT APPROVED BY: Brachum Bish DATE: 4-8-09 TIME: 2:30

QA/QC APPROVAL ________ DATE ________

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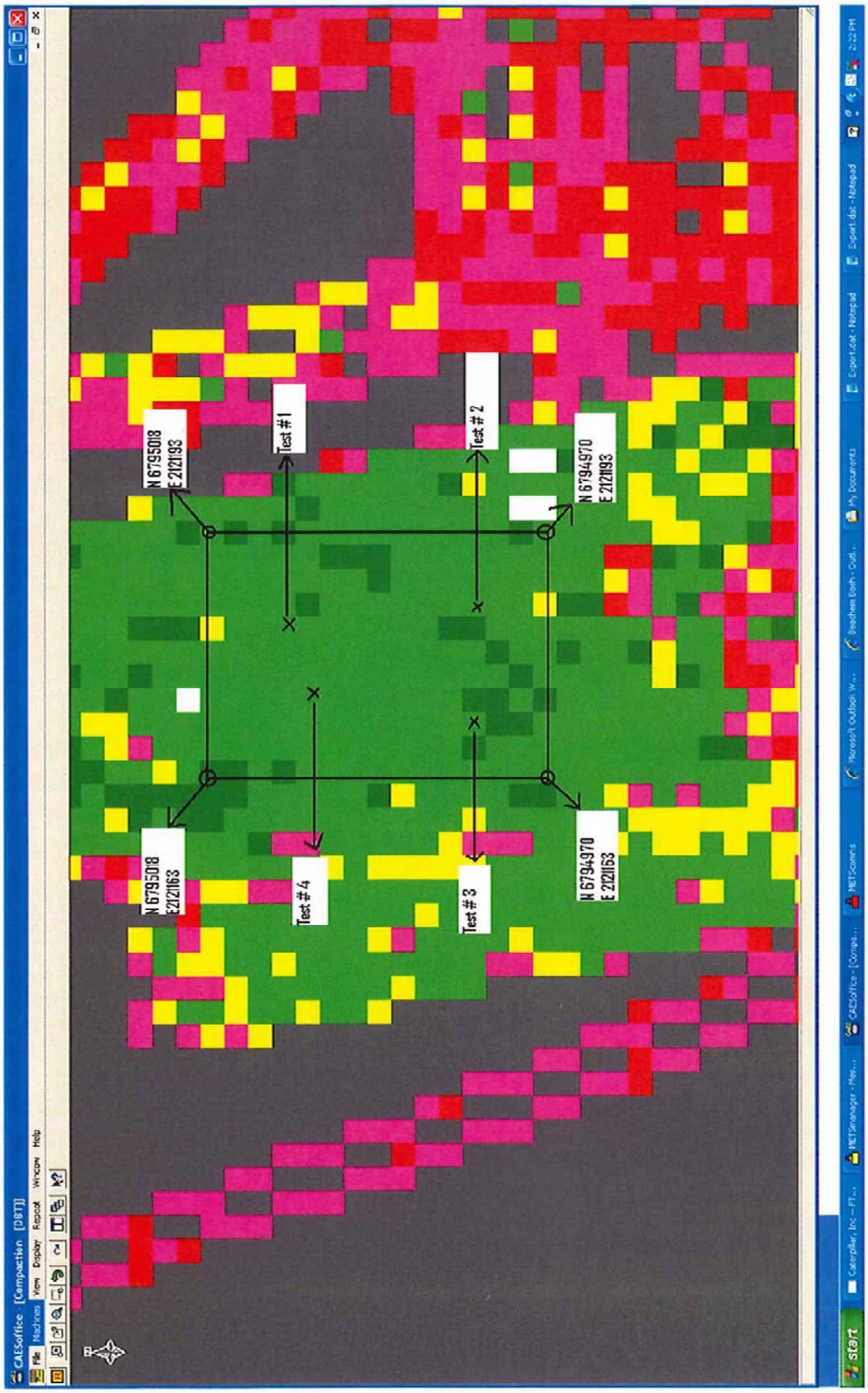
A2. RRM
CAES Test Pad Lift Approval Packages



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ENERGYSOLUTIONS

Slope Elevation Survey

Grid Size 10'

Lift ID: Test Pad #2 (D7)

Last Lift Elevations			Lift Approval Elevations			Lift Thickness
Northing	Easting	Elevation	Northing	Easting	Elevation	Thickness
6794975	2121168	4979.02548	6794975	2121168	4979.5176	0.5
6794984.9	2121168	4980.86274	6794984.9	2121168	4981.38768	0.5
6794994.9	2121168	4982.86405	6794994.9	2121168	4983.22494	0.4
6795004.9	2121168	4984.66851	6795004.9	2121168	4985.06221	0.4
6795014.9	2121168	4986.40735	6795014.9	2121168	4986.86667	0.5
6794975	2121177.9	4978.79582	6794975	2121177.9	4979.22233	0.4
6794984.9	2121177.9	4980.66589	6794984.9	2121177.9	4981.12521	0.5
6794994.9	2121177.9	4982.50316	6794994.9	2121177.9	4982.92967	0.4
6795004.9	2121177.9	4984.30762	6795004.9	2121177.9	4984.73413	0.4
6795014.9	2121177.9	4986.01365	6795014.9	2121177.9	4986.53858	0.5
6794975	2121187.9	4978.20527	6794975	2121187.9	4978.82863	0.6
6794984.9	2121187.9	4980.04253	6794984.9	2121187.9	4980.6987	0.7
6794994.9	2121187.9	4981.97823	6794994.9	2121187.9	4982.50316	0.5
6795004.9	2121187.9	4983.78268	6795004.9	2121187.9	4984.242	0.5
6795014.9	2121187.9	4985.55433	6795014.9	2121187.9	4985.96084	0.4

EnergySolutions

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% >=8	80.7%
Elevation Avg	4982.9
Total >=8	109
Total Lines	135

Pass

Minimum Number of Machine Passes: 4

Lift ID: test pad #2 (D7)

Northing	Easting	Elevation	# of Passes	Passes =>8	Count
6794972	2121165	4978.9	8	1	1
6794975	2121165	4979.6	8	1	1
6794978	2121165	4980.3	8	1	1
6794981	2121165	4981.0	7		1
6794985	2121165	4981.4	8	1	1
6794988	2121165	4982.1	8	1	1
6794991	2121165	4982.7	8	1	1
6794995	2121165	4983.3	8	1	1
6794998	2121165	4983.9	8	1	1
6795001	2121165	4984.5	8	1	1
6795004	2121165	4985.1	8	1	1
6795008	2121165	4985.8	8	1	1
6795011	2121165	4986.3	8	1	1
6795014	2121165	4987.0	8	1	1
6795018	2121165	4987.6	8	1	1
6794972	2121168	4979.0	8	1	1
6794975	2121168	4979.6	7		1
6794978	2121168	4980.2	7		1
6794981	2121168	4980.8	8	1	1
6794985	2121168	4981.5	8	1	1
6794988	2121168	4982.0	8	1	1
6794991	2121168	4982.6	8	1	1
6794995	2121168	4983.3	8	1	1
6794998	2121168	4983.9	8	1	1
6795001	2121168	4984.5	8	1	1
6795004	2121168	4985.1	8	1	1
6795008	2121168	4985.7	8	1	1
6795011	2121168	4986.3	8	1	1
6795014	2121168	4986.9	7		1
6795018	2121168	4987.5	8	1	1
6794972	2121171	4978.8	7		1
6794975	2121171	4979.4	8	1	1
6794978	2121171	4980.0	7		1
6794981	2121171	4980.7	7		1
6794985	2121171	4981.3	7		1
6794988	2121171	4981.9	8	1	1
6794991	2121171	4982.5	8	1	1
6794995	2121171	4983.2	8	1	1
6794998	2121171	4983.7	8	1	1
6795001	2121171	4984.4	8	1	1
6795004	2121171	4985.0	8	1	1
6795008	2121171	4985.6	8	1	1
6795011	2121171	4986.2	8	1	1
6795014	2121171	4986.8	8	1	1

Lift Height: 1' 0"

Thick Lift Threshold: 1' 2"

Last Lift Elevation: N/A

Min. # of Wheel Passes: 8

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A2. RRM
CAES Test Pad Lift Approval Packages

ENERGYSOLUTIONS **FIELD DENSITY TEST**

PROJECT: Moab UMTRA Project | OTHER ______

LIFT IDENTIFICATION: Test Pad # 2 | DATE: 4/7/2009

TEST ID NUMBER(S): 1

TEST LOCATION: N 6795007 E 2121182 | TEST METHOD: ___ D1556 x D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model Troxler 3430 Gauge Serial # 27523

Last Calibration Date: 8/28/08

Daily Standard Counts: Off-Cell Standard

Density 2275 Moisture 675

Method A (Direct Transmission)

Depth Setting 8 (inches) Count Time 1 (minutes)

Moisture Count 156 Density Count 1569

Wet Density (ρ_m) 118.4 (lbs/ft^3) Dry Density 105.3 (lbs/ft^3)

Moisture Density 13.0 (lbs/ft^3) Moisture Fraction 12.4 (%)

MOISTURE DETERMINATION

___ ASTM D2216 @ 110°C or ___ ASTM D4643

Container ID N/A

Mass of container & wet specimen (M_{cws})		g
Mass of container & dry specimen (M_{cds})		g
Mass of water (M_w) $M_w = M_{cws} - M_{cds}$	N/A 4-8-09 BB	g
Mass of container (M_c)		g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$		g
Moisture content (w) $w = (M_w / M_s) \times 100$	12.4	%

Dry Density $(\rho_d) = (100 \times \rho_m)/(100 + w)$

$pd = (100 \times 118.4) / (100 + 12.4) = 105.3$ lbs/ft^3

Note: Wet Density from ASTM D 1556 (ρ_m) takes precedence over ASTM D 6938 (ρ_m)

Percent Compaction = ρ_d / $\gamma_d max \times 100$

$105.3 / 114.6 \times 100 = 91.9$ %

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ___ Calibrated Vol. (lbs/ft^3) ___

Bulk Density of sand (ρ_1) ___ g/cm^3 ___ lbs/ft^3

Mass of Sand to Fill Cone & Plate (M_2) ___ g

Mass of bottle & cone before filling cone, plate & hole		g
Mass of bottle & cone after filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container	N/A 4-8-09 BB	g
Mass of container		g
Mass of wet soil (M_3)		g

Test Hole Volume $V = (M_1 - M_2) / \rho_1$ ___ cm^3

Dry Mass of soil $M_4 = 100 M_3 / (w + 100)$ ___ g

Wet Denisty $\rho_m = (M_3 / V) \times 62.43$ ___ lbs/ft^3

Dry Denisty $\rho_d = M_4 / V$ ___ g/cm^3

Dry Unit Weight $\gamma_d = \rho_d \times 62.43$ ___ lbs/ft^3

Soil Description: Radon Barrier Material

Proctor ID: Test Pad # 1

Standard Proctor (ASTM D698)

Maximum Dry Density ($\gamma_d max$) 114.6 (lbs/ft^3)

Optimum Moisture (w_{opt}) 16.3 (%)

Required Moisture: 11.3 % to 19.3 %

Required Percent Compaction: 90.0 (%)

Comments:

TEST RESULTS:

X Pass

___ Failed Moisture

___ Failed Compaction

Date: 4-7-09

Time: 4:35

By: Brachim Bosh (print) [signature] (signature)

QA/QC APPROVAL DATE

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ENERGYSOLUTIONS

FIELD DENSITY TEST

PROJECT: Moab UMTRA Project   OTHER ______

LIFT IDENTIFICATION: Test Pad # 2   DATE: 4/7/2009

TEST ID NUMBER(S): 2

TEST LOCATION: N 6794981 E 2121185   TEST METHOD: ___ D1556 x D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model Troxler 3430 Gauge Serial # 27523

Last Calibration Date: 8/28/08

Daily Standard Counts: *Off-Cell Standard*

Density 2275 Moisture 675

Method A (Direct Transmission)

Depth Setting 8 *(inches)* Count Time 1 *(minutes)*

Moisture Count 179 Density Count 1435

Wet Density (ρ_w) 121.7 *(lbs/ft³)* Dry Density 106.4 *(lbs/ft³)*

Moisture Density 15.2 *(lbs/ft³)* Moisture Fraction 14.3 *(%)*

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ___ Calibrated Vol. *(lbs/ft³)* ___

Bulk Density of sand (ρ_1) ___ g/cm³ ___ lbs/ft³

Mass of Sand to Fill Cone & Plate (M_2) ___ g

Mass of bottle & cone before filling cone, plate & hole ___ g

Mass of bottle & cone after filling cone, plate & hole ___ g

Mass of sand to fill cone, plate, & hole (M_1) ___ g

Mass of sand to fill hole ___ g

Mass of wet soil & container ___ g

Mass of container ___ g

Mass of wet soil (M_3) ___ g

N/A BB 4-8-09

Test Hole Volume $V = (M_1 - M_2)/\rho_1$ ___ cm³

Dry Mass of soil $M_4 = 100\, M_3/(w + 100)$ ___ g

Wet Denisty $\rho_m = (M_3/V) \times 62.43$ ___ lbs/ft³

Dry Denisty $\rho_d = M_4/V$ ___ g/cm³

Dry Unit Weight $\gamma_d = \rho_d \times 62.43$ ___ lbs/ft³

MOISTURE DETERMINATION

___ ASTM D2216 @ 110°C or ___ ASTM D4643

Container ID N/A

Mass of container & wet specimen (M_{cws})		g
Mass of container & dry specimen (M_{cds})		g
Mass of water (M_w) $M_w = M_{cws} - M_{cds}$	N/A 4-8-09 BB	g
Mass of container (M_c)		g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$		g
Moisture content (w) $w = (M_w / M_s) \times 100$	14.3	%

Dry Density $(\rho_d) = (100 \times \rho_m)/(100 + w)$

$\rho d = (100 \times 121.7)/(100 + 14.3) = 106.5$ lbs/ft³

Note: Wet Density from ASTM D 1556 (ρ_m) takes precedence over ASTM D 6938 (ρ_w)

Percent Compaction = ρ_d / $\gamma_d max$ x 100

106.5 / 114.6 x 100 = 92.9 %

Soil Description: Radon Barrier Material

Proctor ID: Test Pad # 1

Standard Proctor (ASTM D698)

Maximum Dry Density ($\gamma_d max$) 114.6 (lbs/ft³)

Optimum Moisture (w_{opt}) 16.3 (%)

Required Moisture: 11.3 % to 19.3 %

Required Percent Compaction: 90.0 (%)

Comments:

TEST RESULTS:

X Pass   Date: 4-7-09

___ Failed Moisture

___ Failed Compaction   Time: 4:45

By: Brachen Bosh (print) [signature] (signature)

QA/QC APPROVAL ______ DATE ______

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ENERGYSOLUTIONS FIELD DENSITY TEST

PROJECT: Moab UMTRA Project
OTHER ______
LIFT IDENTIFICATION: Test Pad # 2
DATE: 4/7/2009
TEST ID NUMBER(S): 3
TEST LOCATION: N 6794982 E 2121169
TEST METHOD: ___ D1556 x D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model Troxler 3430 Gauge Serial # 27523
Last Calibration Date: 8/28/08
Daily Standard Counts: Off-Cell Standard
Density 2275 Moisture 675
Method A (Direct Transmission)
Depth Setting 8 (inches) Count Time 1 (minutes)
Moisture Count 167 Density Count 1450
Wet Density (ρ_m) 121.3 (lbs/ft³) Dry Density 107.2 (lbs/ft³)
Moisture Density 14.1 (lbs/ft³) Moisture Fraction 13.1 (%)

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ___ Calibrated Vol. (lbs/ft³) ___
Bulk Density of sand (ρ_1) ___ g/cm³ ___ lbs/ft³
Mass of Sand to Fill Cone & Plate (M_2) ___ g

Mass of bottle & cone before filling cone, plate & hole		g
Mass of bottle & cone after filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container		g
Mass of container		g
Mass of wet soil (M_3)		g

N/A BB 4-8-09

Test Hole Volume
$V = (M_1 - M_2) / \rho_1$ ___ cm³
Dry Mass of soil
$M_4 = 100\, M_3 / (w + 100)$ ___ g
Wet Denisty
$\rho_m = (M_3 / V) \times 62.43$ ___ lbs/ft³
Dry Denisty
$\rho_d = M_4 / V$ ___ g/cm³
Dry Unit Weight
$\gamma_d = \rho_d \times 62.43$ ___ lbs/ft³

MOISTURE DETERMINATION

___ ASTM D2216 @ 110° C or ___ ASTM D4643

Container ID N/A

Mass of container & wet specimen (M_{cms})		g
Mass of container & dry specimen (M_{cds})	N/A BB 4-8-09	g
Mass of water (M_w) $M_w = M_{cms} - M_{cds}$		g
Mass of container (M_c)		g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$		g
Moisture content (w) $w = (M_w / M_s) \times 100$	13.1	%

Soil Description: Radon Barrier Material
Proctor ID: Test Pad # 1
Standard Proctor (ASTM D698)

Dry Density $(\rho_d) = (100 \times \rho_m)/(100 + w)$

$\rho d = (100 \times 121.3) / (100 + 13.1) = 107.3$ lbs/ft³

Note: Wet Density from ASTM D 1556 (ρ_m) takes precedence over ASTM D 6938 (ρ_m)

Percent Compaction = ρ_d / $\gamma_d max \times 100$

107.3 / 114.6 x 100 = 93.6 %

Maximum Dry Density ($\gamma_d max$) 114.6 (lbs/ft³)
Optimum Moisture (w_{opt}) 16.3 (%)
Required Moisture: 11.3 % to 19.3 %
Required Percent Compaction: 90.0 (%)

Comments:

TEST RESULTS:
X Pass
___ Failed Moisture
___ Failed Compaction
Date: 4-7-09
Time: 4:55
By: Braden Bosh (print) [signature] (signature)

QA/QC APPROVAL ___ DATE ___

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ENERGYSOLUTIONS

FIELD DENSITY TEST

PROJECT: Moab UMTRA Project   OTHER ____

LIFT IDENTIFICATION: Test Pad # 2   DATE: 4/7/2009

TEST ID NUMBER(S): 4

TEST LOCATION: N 6795004 E 2123171   TEST METHOD: ____ D1556 x D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model Troxler 3430 Gauge Serial # 27523

Last Calibration Date: 8/28/08

Daily Standard Counts: Off-Cell Standard

Density 2275 Moisture 675

Method A (Direct Transmission)

Depth Setting 8 *(inches)* Count Time 1 *(minutes)*

Moisture Count 153 Density Count 1527

Wet Density (ρ_m) 119.4 *(lbs/ft³)* Dry Density 106.7 *(lbs/ft³)*

Moisture Density 12.8 *(lbs/ft³)* Moisture Fraction 12.0 *(%)*

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ____ Calibrated Vol. *(lbs/ft³)* ____

Bulk Density of sand (ρ_1) ____ g/cm³ ____ lbs/ft³

Mass of Sand to Fill Cone & Plate (M_2) ____ g

Mass of bottle & cone before filling cone, plate & hole		g
Mass of bottle & cone after filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container		g
Mass of container		g
Mass of wet soil (M_3)		g

N/A 4-8-09

Test Hole Volume $V = (M_1 - M_2)/\rho_1$ ____ cm³

Dry Mass of soil $M_4 = 100\, M_3/(w+100)$ ____ g

Wet Denisty $\rho_m = (M_3/V) \times 62.43$ ____ lbs/ft³

Dry Denisty $\rho_d = M_4/V$ ____ g/cm³

Dry Unit Weight $\gamma_d = \rho_d \times 62.43$ ____ lbs/ft³

MOISTURE DETERMINATION

____ ASTM D2216 @ 110° C or ____ ASTM D4643

Container ID N/A

Mass of container & wet specimen (M_{cws})		g
Mass of container & dry specimen (M_{cds})		g
Mass of water (M_w) $M_w = M_{cws} - M_{cds}$	N/A	g
Mass of container (M_c)	4-8-09 BB	g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$		g
Moisture content (w) $w = (M_w/M_s) \times 100$	12.0	%

Soil Description: Radon Barrier Material

Proctor ID: Test Pad # 1

Standard Proctor (ASTM D698)

Dry Density $(\rho_d = (100 \times \rho_m)/(100 + w))$

$\rho d = (100 \times 119.4)/(100 + 12.0) = 106.6$ lbs/ft³

Note: Wet Density from ASTM D 1556 (ρ_m) takes precedence over ASTM D 6938 (ρ_m)

Percent Compaction = ρ_d / $\gamma_d max \times 100$

106.6 / 114.6 × 100 = 93.0 %

Maximum Dry Density ($\gamma_d max$) 114.6 (lbs/ft³)

Optimum Moisture (w_{opt}) 16.3 (%)

Required Moisture: 11.3 % to 19.3 %

Required Percent Compaction: 90.0 (%)

Comments:

TEST RESULTS:

x Pass   Date: 4-7-09

____ Failed Moisture

____ Failed Compaction   Time: 5:05

By: Brinham Bish (print) / [signature] (signature)

____ QA/QC APPROVAL   ____ DATE

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A2. RRM
CAES Test Pad Lift Approval Packages

ENERGYSOLUTIONS

LIFT APPROVAL FORM

PROJECT: Moab UMTRA Project OTHER ______

NW CORNER DATE: 4/6/2009

N A 4-7-09 BB

P 1	N. 6795010 E. 2121162				
EW:	40	X	0.312	=	12
NS:	43	X	0.134	=	6
P 2	N. 6794987 E. 2121165				
EW:	40	X	0.731	=	29
NS:	43	X	0.342	=	15
P 3	N. 6795014 E. 2121181				
EW:	40	X	0.045	=	2
NS:	43	X	0.721	=	31
P 4	N. 6794992 E. 2121190				
EW:	40	X	0.841	=	34
NS:	43	X	0.798	=	34
P 5					
EW:		X			
NS:		X			
Page 2 attached:	Y	N			

BC 4-7-09 BB

IDENTIFY LOTS ABOVE

LIFT ID: Test Pad NW CORNER: N 6795016 E 2121150

THICKNESS: UNC: 12" COM: See page 5 ELEV: N/A Debris Insp. By: N/A Date: N/A Time: N/A

Comments:

The Lift was placed on a 5 to 1 slope. 3 machine passes were performed across the lift area see attached data for detailed information (Machine weight is 94,500lbs). Nuclear Density tests were performed after 3 passes to verify that the lift area met 90% compaction. Attached are the testing results. This lift was completed as a test pad to verify the CAES Office System.

KEYING IN NOTES: N E S W N/A DENSITY TESTS ID # (S): 1 thru 4

LIFT APPROVED BY: Brandon Bush / [signature] DATE: 4-7-09 TIME: 11:40

QA/QC APPROVAL ______ DATE ______

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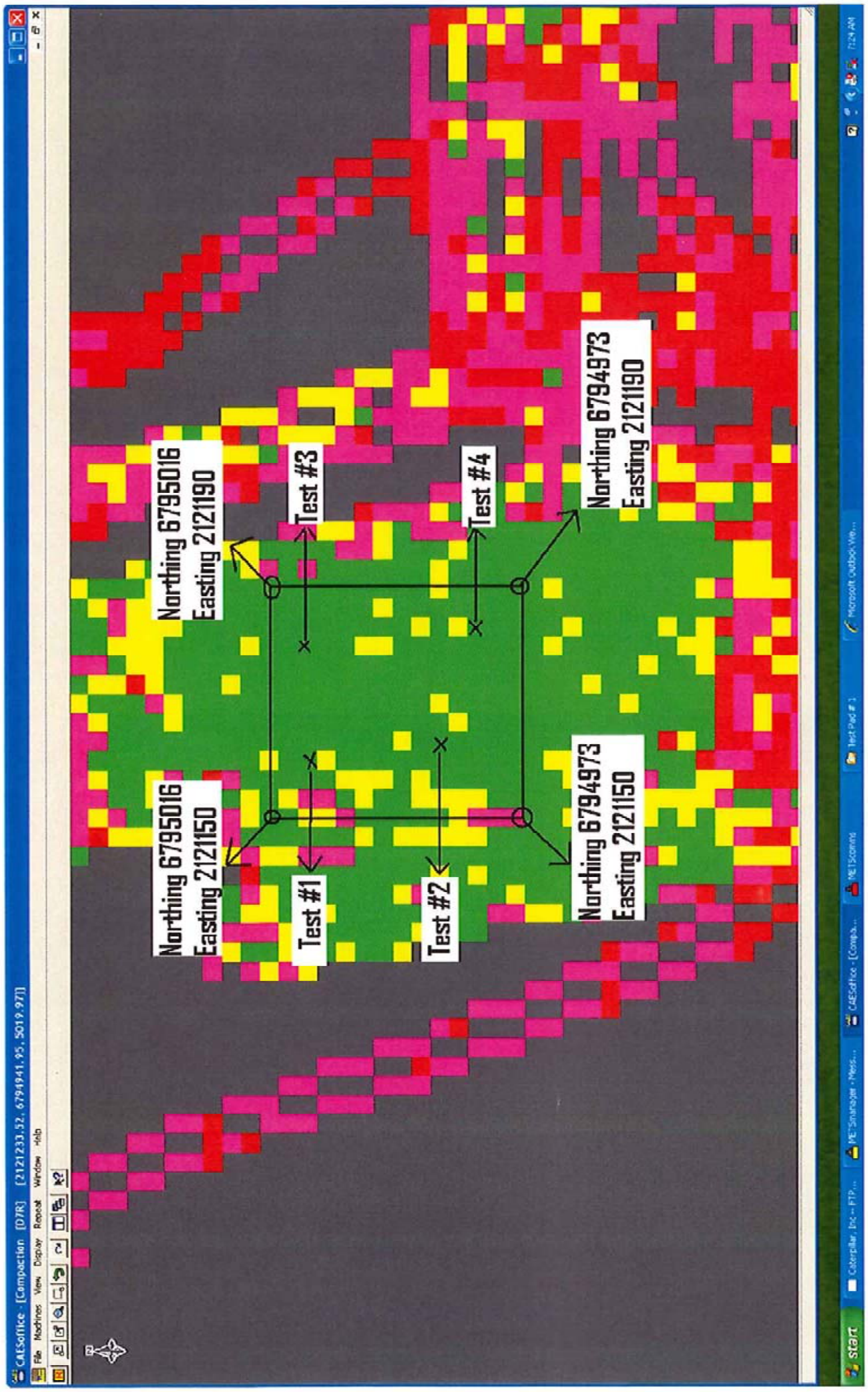
A2. RRM
CAES Test Pad Lift Approval Packages



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ENERGYSOLUTIONS

Slope Elevation Survey

Grid Size 10'

Lift ID: 4-6-09 5 to 1

Last Lift Elevations			Lift Approval Elevations			Lift Thickness
Northing	Easting	Elevation	Northing	Easting	Elevation	Thickness
6794998	2121155	4983.6	6794998	2121155	4983.8	0.3
6795008	2121155	4985.1	6795008	2121155	4985.6	0.5
6794978	2121165	4979.3	6794978	2121165	4979.7	0.4
6794988	2121165	4981.1	6794988	2121165	4981.7	0.5
6794998	2121165	4982.9	6794998	2121165	4983.6	0.7
6795008	2121165	4984.6	6795008	2121165	4985.4	0.7
6794978	2121175	4978.9	6794978	2121175	4979.5	0.6
6794988	2121175	4980.7	6794988	2121175	4981.4	0.7
6794998	2121175	4982.5	6794998	2121175	4983.2	0.7
6795008	2121175	4984.2	6795008	2121175	4985.0	0.8
6794978	2121185	4978.5	6794978	2121185	4979.1	0.5
6794988	2121185	4980.4	6794988	2121185	4980.9	0.6
6794998	2121185	4982.0	6794998	2121185	4982.8	0.8
6795008	2121185	4983.7	6795008	2121185	4984.6	0.9

EnergySolutions
Clive, Utah

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% >=6	82.1%
Elevation Avg	4982.7
Total >=6	128
Total Lines	156

Pass

Minimum Number of Machine Passes: 3

Lift ID: Test Pad 5 to 1 D8

Northing	Easting	Elevation	# of Passes	Passes =>6	Count
6794975	2121152	4979.9	3		1
6794978	2121152	4980.6	2		1
6794981	2121152	4981.3	3		1
6794984	2121152	4981.9	5		1
6794988	2121152	4982.6	6	1	1
6794991	2121152	4983.2	6	1	1
6794994	2121152	4983.7	6	1	1
6794998	2121152	4984.3	6	1	1
6795001	2121152	4984.6	6	1	1
6795004	2121152	4985.2	3		1
6795007	2121152	4985.7	4		1
6795011	2121152	4986.3	4		1
6795014	2121152	4986.8	6	1	1
6794975	2121155	4979.6	6	1	1
6794978	2121155	4980.3	6	1	1
6794981	2121155	4980.6	4		1
6794984	2121155	4981.2	4		1
6794988	2121155	4981.8	5		1
6794991	2121155	4982.5	4		1
6794994	2121155	4983.1	6	1	1
6794998	2121155	4983.7	6	1	1
6795001	2121155	4984.4	4		1
6795004	2121155	4985.0	6	1	1
6795007	2121155	4985.6	2		1
6795011	2121155	4986.2	3		1
6795014	2121155	4986.8	5		1
6794975	2121158	4979.2	6	1	1
6794978	2121158	4979.8	6	1	1
6794981	2121158	4980.5	6	1	1
6794984	2121158	4981.1	6	1	1
6794988	2121158	4981.7	6	1	1
6794991	2121158	4982.4	5		1
6794994	2121158	4983.0	6	1	1
6794998	2121158	4983.6	5		1
6795001	2121158	4984.3	5		1
6795004	2121158	4984.9	4		1
6795007	2121158	4985.5	6	1	1
6795011	2121158	4986.1	6	1	1
6795014	2121158	4986.8	6	1	1
6794975	2121161	4979.1	6	1	1
6794978	2121161	4979.7	6	1	1
6794981	2121161	4980.4	6	1	1
6794984	2121161	4981.1	6	1	1
6794988	2121161	4981.7	6	1	1

Lift Height: 6"

Thick Lift Threshold: 1' 2"

Last Lift Elevation: N/A

Min. # of Wheel Passes: 6

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ENERGYSOLUTIONS FIELD DENSITY TEST

PROJECT: Moab UMTRA Project — OTHER ______
LIFT IDENTIFICATION: Test Pad 4-6-09 — DATE: 4/6/2009
TEST ID NUMBER(S): 1
TEST LOCATION: N. 6795010 E. 2121162 — TEST METHOD: ___ D1556 x D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model Troxler 3430 Gauge Serial # 27523
Last Calibration Date: ~~8/22/07~~ 8/28/08
Daily Standard Counts: Off-Cell Standard 4-8-09 BB
Density 2275 Moisture 675
Method A (Direct Transmission)
Depth Setting 8" (inches) Count Time 1 (minutes)
Moisture Count 172 Density Count 1518
Wet Density (ρ_w) 119.6 (lbs/ft³) Dry Density 105.0 (lbs/ft³)
Moisture Density N/A (lbs/ft³) Moisture Fraction 13.9 (%)

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ___ Calibrated Vol. (lbs/ft³) ___
Bulk Density of sand (ρ_1) ___ g/cm³ ___ lbs/ft³
Mass of Sand to Fill Cone & Plate (M_2) ___ g

Mass of bottle & cone before filling cone, plate & hole		g
Mass of bottle & cone after filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container	N/A 4-7-09 BB	g
Mass of container		g
Mass of wet soil (M_3)		g

Test Hole Volume $V = (M_1 - M_2) / \rho_1$ ___ cm³
Dry Mass of soil $M_4 = 100\, M_3 / (w + 100)$ ___ g
Wet Denisty $\rho_m = (M_3 / V) \times 62.43$ ___ lbs/ft³
Dry Denisty $\rho_d = M_4 / V$ ___ g/cm³
Dry Unit Weight $\gamma_d = \rho_d \times 62.43$ ___ lbs/ft³

MOISTURE DETERMINATION

___ ASTM D2216 @ 110° C or ___ ASTM D4643

Container ID N/A 4-7-09 BB

Mass of container & wet specimen (M_{cws})		g
Mass of container & dry specimen (M_{cds})		g
Mass of water (M_w) $M_w = M_{cws} - M_{cds}$	N/A 4-7-09 BB	g
Mass of container (M_c)		g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$		g
Moisture content (w) $w = (M_w / M_s) \times 100$	13.9	%

Soil Description: Radon barrier material
Proctor ID: Test Pad # 1
Standard Proctor (ASTM D698)

Dry Density $(\rho_d = (100 \times \rho_m)/(100 + w)$

$\rho d = (100 \times 119.6) / (100 + 13.9) = 105.0$ lbs/ft³
Note: Wet Density from ASTM D 1556 (ρ_m) takes precedence over ASTM D 6938 (ρ_m)

Percent Compaction = ρ_d / $\gamma_d max \times 100$

105.0 / 114.6 x 100 = 91.6 %

Maximum Dry Density ($\gamma_d max$) 114.6 (lbs/ft³)
Optimum Moisture (w_{opt}) 16.3 (%)
Required Moisture: 11.3 % to 19.3 %
Required Percent Compaction: 90.0 (%)

Comments:

TEST RESULTS:
x Pass — Date: 4-7-09
___ Failed Moisture
___ Failed Compaction — Time: 10:00
By: Beachem Bosh (print) / [signature] (signature)

QA/QC APPROVAL ______ DATE ______

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FIELD DENSITY TEST

PROJECT: Moab UMTRA Project

OTHER ______

LIFT IDENTIFICATION: Test Pad 4-6-09 4-8-09 BB

DATE: 4/6/2009

TEST ID NUMBER(S): 4-8-2

TEST LOCATION: N. 6795010 E. 2121162

TEST METHOD: ___ D1556 x D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model Troxler 3430 Gauge Serial # 27523

Last Calibration Date: ~~3/24/07~~ 8/28/08

Daily Standard Counts: Off-Cell Standard 4-8-07 BB

Density 2275 Moisture 675

Method A (Direct Transmission)

Depth Setting 8" (inches) Count Time 1 (minutes)

Moisture Count 180 Density Count 1482

Wet Density (ρ_w) 120.4 (lbs/ft^3) Dry Density 105.1 (lbs/ft^3)

Moisture Density N/A (lbs/ft^3) Moisture Fraction 14.6 (%)

MOISTURE DETERMINATION

___ ASTM D2216 @ 110° C or ___ ASTM D4643

Container ID N/A

Mass of container & wet specimen (M_{cws})		g
Mass of container & dry specimen (M_{cds})	4-7-09 BB	g
Mass of water (M_w) $M_w = M_{cws} - M_{cds}$	N/A	g
Mass of container (M_c)		g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$		g
Moisture content (w) $w = (M_w / M_s) \times 100$	14.6	%

Dry Density ($\rho_d = (100 \times \rho_w)/(100 + w)$)

$\rho d = (100 \times 120.4) / (100 + 14.6) = 105.1$ lbs/ft^3

Note: Wet Density from ASTM D 1556 (ρ_w) takes precedence over ASTM D 6938 (ρ_w)

Percent Compaction = ρ_d / $\gamma_d max \times 100$

105.1 / 114.6 x 100 = 91.7 %

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ___ Calibrated Vol. (lbs/ft^3) ___

Bulk Density of sand (ρ_1) ___ g/cm^3 ___ lb/ft^3

Mass of Sand to Fill Cone & Plate (M_2) ___

Mass of bottle & cone before filling cone, plate & hole		g
Mass of bottle & cone after filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container	4-7-09	g
Mass of container	BB	g
Mass of wet soil (M_3)		g

Test Hole Volume $V = (M_1 - M_2) / \rho_1$ ___ cm^3

Dry Mass of soil $M_4 = 100\, M_3 / (w + 100)$ ___ g

Wet Denisty $\rho_m = (M_3 / V) \times 62.43$ ___ lbs/ft^3

Dry Denisty $\rho_d = M_4 / V$ ___ g/cm^3

Dry Unit Weight $\gamma_d = \rho_d \times 62.43$ ___ lbs/ft^3

Soil Description: Radon barrier Material

Proctor ID: Test Pad # 1

Standard Proctor (ASTM D698)

Maximum Dry Density ($\gamma_d max$) 114.6 (lbs/ft^3)

Optimum Moisture (w_{opt}) 16.3 (%)

Required Moisture: 11.3 % to 19.3 %

Required Percent Compaction: 90.0 (%)

Comments:

TEST RESULTS:

x Pass

___ Failed Moisture

___ Failed Compaction

Date: ~~10/09~~ 4-7-09 4-7-09 BB

Time: 10:10

By: Beachum Bosh (print) / [signature] (signature)

QA/QC APPROVAL ______ DATE ______

Density Testing
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ENERGYSOLUTIONS

FIELD DENSITY TEST

PROJECT: Moab UMTRA Project | OTHER ____

LIFT IDENTIFICATION: Test Pad 4-6-09 | DATE: 4/6/2009 4-8-09 BB

TEST ID NUMBER(S): Y3

TEST LOCATION: N. 6795010 E. 2121162 | TEST METHOD: ___ D1556 x D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model Troxler 3430 Gauge Serial # 27523

Last Calibration Date: ~~8/22/07~~ 8/28/08

Daily Standard Counts: Off-Cell Standard 4-8-09 BB

Density 2275 Moisture 675

Method A (Direct Transmission)

Depth Setting 8" (inches) Count Time 1 (minutes)

Moisture Count 146 Density Count 1695

Wet Density (ρ_m) 115.5 (lbs/ft³) Dry Density 103.1 (lbs/ft³)

Moisture Density N/A (lbs/ft³) Moisture Fraction 11.7 (%)

MOISTURE DETERMINATION

___ ASTM D2216 @ 110°C or ___ ASTM D4643

Container ID N/A

Mass of container & wet specimen (M_{cws})		g
Mass of container & dry specimen (M_{cds})		g
Mass of water (M_w) $M_w = M_{cws} - M_{cds}$	N/A 4-7-09 BB	g
Mass of container (M_c)		g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$		g
Moisture content (w) $w = (M_w / M_s) \times 100$	11.7	%

Dry Density $(\rho_d) = (100 \times \rho_m)/(100 + w)$

$\rho d = (100 \times 115.5) / (100 + 11.7) =$ 103.4 lbs/ft³

Note: Wet Density from ASTM D 1556 (ρ_m) takes precedence over ASTM D 6938 (ρ_m)

Percent Compaction = ρ_d / $\gamma_d max \times 100$

103.4 / 114.6 x 100 = 90.2 %

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ____ Calibrated Vol. (lbs/ft³) ____

Bulk Density of sand (ρ_1) ____ g/cm³ ____ lbs/ft³

Mass of Sand to Fill Cone & Plate (M_2) ____ g

Mass of bottle & cone before filling cone, plate & hole		g
Mass of bottle & cone after filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container	7-09	g
Mass of container	BB	g
Mass of wet soil (M_3)		g

N/A 4

Test Hole Volume
$V = (M_1 - M_2) / \rho_1$ ____ cm³

Dry Mass of soil
$M_4 = 100\ M_3 / (w + 100)$ ____ g

Wet Denisty
$\rho_m = (M_3 / V) \times 62.43$ ____ lbs/ft³

Dry Denisty
$\rho_d = M_4 / V$ ____ g/cm³

Dry Unit Weight
$\gamma_d = \rho_d \times 62.43$ ____ lbs/ft³

Soil Description: Radon barrier Material

Proctor ID: Test Pad # 1

Standard Proctor (ASTM D698)

Maximum Dry Density ($\gamma_d max$) 114.6 (lbs/ft³)

Optimum Moisture (w_{opt}) 16.3 (%)

Required Moisture: 11.3 % to 19.3 %

Required Percent Compaction: 90.0 (%)

Comments:

TEST RESULTS:

x Pass

___ Failed Moisture

___ Failed Compaction

Date: 4-7-09

Time: 10:22

By: Brackem Rush (print) [signature] (signature)

QA/QC APPROVAL ____ DATE ____

Density Testing
DOE-EM/GJRAC1783
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ENERGYSOLUTIONS

FIELD DENSITY TEST

PROJECT: Moab UMTRA Project OTHER ______

LIFT IDENTIFICATION: Test Pad 4-6-09 DATE: 4/6/2009 4-8-09 BB

TEST ID NUMBER(S): ______

TEST LOCATION: N. 6795010 E. 2121162

TEST METHOD: ___ D1556 x D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model Troxler 3430 Gauge Serial # 27523

Last Calibration Date: ~~8/22/07~~ 8/28/08

Daily Standard Counts: Off Cell Standard 4-8-09 BB

Density 2275 Moisture 675

Method A (Direct Transmission)

Depth Setting 8" (inches) Count Time 1 (minutes)

Moisture Count 166 Density Count 1585

Wet Density (ρ_w) 118.0 (lbs/ft³) Dry Density 104.7 (lbs/ft³)

Moisture Density N/A (lbs/ft³) Moisture Fraction 13.5 (%)

MOISTURE DETERMINATION

___ ASTM D2216 @ 110° C or ___ ASTM D4643

Container ID N/A

Mass of container & wet specimen (M_{cws})		g
Mass of container & dry specimen (M_{cds})		g
Mass of water (M_w) $M_w = M_{cws} - M_{cds}$	N/A 4-7-09 BB	g
Mass of container (M_c)		g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$		g
Moisture content (w) $w = (M_w / M_s) \times 100$	13.5	%

Dry Density (ρ_d = (100 x ρ_{wt})/(100 + w))

ρd = (100 x 118.0) / (100 + 13.5 = 104.0 lbs/ft³

Note: Wet Density from ASTM D 1556 (ρ_m) takes precedence over ASTM D 6938 (ρ_w)

Percent Compaction = ρ_d / $\gamma_d max$ x 100

104.0 / 114.6 x 100 = 90.7 %

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ___ Calibrated Vol. (lbs/ft³) ___

Bulk Density of sand (ρ_1) ___ g/cm³ ___ lbs/ft³

Mass of Sand to Fill Cone & Plate (M_2) ___ g

Mass of bottle & cone before filling cone, plate & hole		g
Mass of bottle & cone after filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container	4-7-09 BB	g
Mass of container		g
Mass of wet soil (M_3)		g

Test Hole Volume $V = (M_1 - M_2) / \rho_1$ ___ cm³

Dry Mass of soil $M_4 = 100 M_3 / (w + 100)$ ___ g

Wet Denisty $\rho_m = (M_3 / V) \times 62.43$ ___ lbs/ft³

Dry Denisty $\rho_d = M_4 / V$ ___ g/cm³

Dry Unit Weight $\gamma_d = \rho_d \times 62.43$ ___ lbs/ft³

Soil Description: Radon barrier Material

Proctor ID: Test Pad # 1

Standard Proctor (ASTM D698)

Maximum Dry Density ($\gamma_d max$) 114.6 (lbs/ft³)

Optimum Moisture (w_{opt}) 16.3 (%)

Required Moisture: 11.3 % to 19.3 %

Required Percent Compaction: 90.0 (%)

Comments:

TEST RESULTS:

X Pass

___ Failed Moisture

___ Failed Compaction

Date: 4-7-09

Time: 10:35

By: Beacham Bush (print) [signature] (signature)

QA/QC APPROVAL ______ DATE ______

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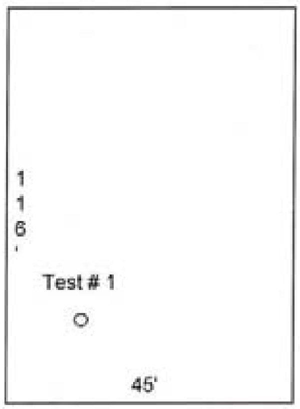
ENERGYSOLUTIONS

LIFT APPROVAL FORM

PROJECT: Moab UMTRA Project | OTHER:

NW CORNER | DATE: 8/27/2009



P1	6794479 N 2122276 E				
EW:	45	X	0.313	=	14
NS:	116	X	0.877	=	102
P2					
EW:		X		=	
NS:		X		=	
P3					
EW:		X		=	
NS:		X	N/A	=	
P4					
EW:		X		=	
NS:		X		=	
P5					
EW:		X		=	
NS:		X		=	

Page 2 attached: Y N

IDENTIFY LOTS ABOVE

LIFT ID: UWA32090827-01 NW CORNER: 6794581 N 2122262 E

THICKNESS: UNC: <=12" COM: N/A ELEV: N/A Debris Insp. By: N/A Date: N/A Time: N/A

Comments: This lift has many negtive points on the grid slope. The reasoning behind this is because one of the operators pushed material off of the top of this lift and on top the top of waste area. there-fore making cuts

QC performed an in place moisture/density test in correlation with the CAES using the CAT 825h soils compactor to verify that the minimum of 90% compaction will be achieved when performing 3 machine passes.

KEYING IN NOTES: N E S W: W DENSITY TESTS ID # (S): 1

LIFT APPROVED BY: David Stewart/Beachem Bosh DATE: 8/27/2009 TIME: 1400

QA/QC APPROVAL DATE 08-27-09

Density Testing
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Rev. 0

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ENERGYSOLUTIONS

Slope Elevation Survey

					Northing	Easting
	Grid Size	15'				
Lift ID:	UWA32090827-01			Lower Left	N/	
	PASS			Upper Right		A

Last Lift Elevations			Lift Approval Elevations			Lift Thickness
Northing	Easting	Elevation	Northing	Easting	Elevation	Thickness
6794460	2122236	4970.9	6794460	2122236	4970.7	-0.2
6794475	2122236	4969.4	6794475	2122236	4969.0	-0.4
6794460	2122251	4970.9	6794460	2122251	4970.2	-0.7
6794475	2122251	4968.8	6794475	2122251	4968.5	-0.3
6794490	2122251	4966.0	6794490	2122251	4965.8	-0.2
6794505	2122251	4963.6	6794505	2122251	4963.5	-0.1
6794460	2122266	4969.8	6794460	2122266	4969.2	-0.5
6794475	2122266	4967.6	6794475	2122266	4967.4	-0.3
6794490	2122266	4965.0	6794490	2122266	4964.7	-0.2
6794505	2122266	4962.8	6794505	2122266	4962.7	-0.1
6794520	2122266	4959.9	6794520	2122266	4959.9	0.1
6794445	2122281	4970.1	6794445	2122281	4970.4	0.3
6794460	2122281	4968.6	6794460	2122281	4968.2	-0.4
6794475	2122281	4966.7	6794475	2122281	4966.1	-0.6
6794490	2122281	4963.8	6794490	2122281	4963.9	0.1
6794505	2122281	4961.5	6794505	2122281	4961.8	0.3
6794520	2122281	4958.8	6794520	2122281	4959.1	0.3
6794445	2122296	4969.1	6794445	2122296	4969.3	0.2
6794460	2122296	4967.0	6794460	2122296	4967.4	0.4
6794475	2122296	4965.0	6794475	2122296	4965.4	0.5
6794490	2122296	4962.7	6794490	2122296	4963.1	0.5
6794505	2122296	4960.8	6794505	2122296	4961.3	0.6
6794520	2122296	4958.3	6794520	2122296	4958.8	0.5
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
			N/A			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

EnergySolutions

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% >=6	79.3%
Elevation Avg	4960.5
Total >=6	382
Total Lines	482

Pass

Minimum Number of Machine Passes: 3

Lift ID: UWA32090827-01

Northing	Easting	Elevation	# of Passes	Passes =>6	Count
6794480	2122231	4969.2	6	1	1
6794477	2122235	4969.5	5		1
6794480	2122235	4969.0	6	1	1
6794483	2122235	4968.5	6	1	1
6794487	2122235	4967.9	6	1	1
6794477	2122238	4969.2	6	1	1
6794480	2122238	4968.8	6	1	1
6794483	2122238	4968.2	6	1	1
6794487	2122238	4967.7	6	1	1
6794490	2122238	4967.2	6	1	1
6794493	2122238	4966.6	6	1	1
6794474	2122241	4969.0	4		1
6794477	2122241	4968.9	6	1	1
6794480	2122241	4968.5	6	1	1
6794483	2122241	4968.0	6	1	1
6794487	2122241	4967.7	3		1
6794490	2122241	4967.0	6	1	1
6794493	2122241	4966.5	6	1	1
6794496	2122241	4965.8	6	1	1
6794500	2122241	4965.3	6	1	1
6794474	2122244	4968.8	6	1	1
6794477	2122244	4968.3	6	1	1
6794480	2122244	4967.8	6	1	1
6794483	2122244	4968.0	4		1
6794487	2122244	4967.2	6	1	1
6794490	2122244	4966.8	6	1	1
6794493	2122244	4966.3	6	1	1
6794496	2122244	4965.7	6	1	1
6794500	2122244	4965.0	6	1	1
6794503	2122244	4964.5	6	1	1
6794506	2122244	4963.9	6	1	1
6794470	2122248	4969.1	6	1	1
6794474	2122248	4968.6	6	1	1
6794477	2122248	4967.9	6	1	1
6794480	2122248	4967.4	6	1	1
6794483	2122248	4967.1	6	1	1
6794487	2122248	4966.7	6	1	1
6794490	2122248	4966.5	5		1
6794493	2122248	4966.0	6	1	1
6794496	2122248	4965.8	4		1
6794500	2122248	4965.0	6	1	1
6794503	2122248	4964.4	6	1	1
6794506	2122248	4963.6	6	1	1
6794510	2122248	4962.7	6	1	1

Lift Height: 6"

Thick Lift Threshold: 1' 0"

Last Lift Elevation: N/A

Min. # of Wheel Passes: 6

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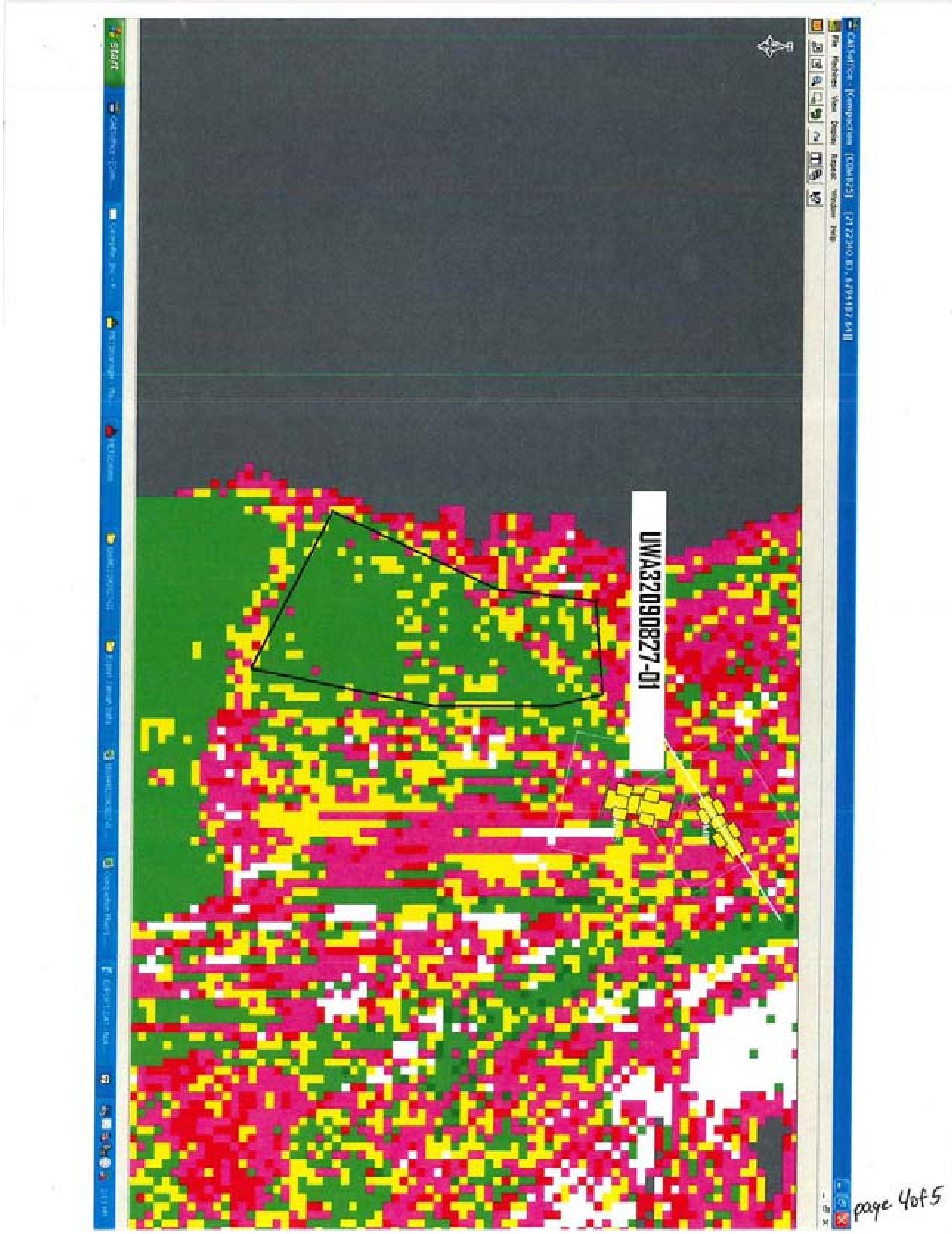
UWA32090827-01
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ENERGYSOLUTIONS

FIELD DENSITY TEST

PROJECT: **Moab UMTRA Project** OTHER ____

LIFT IDENTIFICATION: **UWA32090827-01** DATE: **8/27/2009**

TEST ID NUMBER(S): 1

TEST LOCATION: 6794584 N 2122262 E (4779 276 R.T. 8-27-09) TEST METHOD: ____ D1556 **x** D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model **Troxler 3430** Gauge Serial # **27523**

Last Calibration Date: **8/21/09**

Daily Standard Counts: *On-Cell Standard*

Density **2252** Moisture **671**

Method A (Direct Transmission)

Depth Setting **6** *(inches)* Count Time **1** *(minutes)*

Moisture Count **150** Density Count **2025**

Wet Density (ρ_m) **113.1** *(lbs/ft³)* Dry Density **100.5** *(lbs/ft³)*

Moisture Density **12.5** *(lbs/ft³)* Moisture Fraction **12.5** *(%)*

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ____ Calibrated Vol. *(lbs/ft³)* ____

Bulk Density of sand (ρ_1) ____ g/cm³ ____ lbs/ft³

Mass of Sand to Fill Cone & Plate (M_2) ____ g

Mass of bottle & cone **before** filling cone, plate & hole		g
Mass of bottle & cone **after** filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container		g
Mass of container		g
Mass of wet soil (M_3)		g

N/A

Test Hole Volume $V = (M_1 - M_2) / \rho_1$ ____ cm³

Dry Mass of soil $M_4 = 100\ M_3 / (w + 100)$ ____ g

Wet Denisty $\rho_m = (M_3 / V) \times 62.43$ ____ lbs/ft³

Dry Denisty $\rho_d = M_4 / V$ ____ g/cm³

Dry Unit Weight $\gamma_d = \rho_d \times 62.43$ ____ lbs/ft³

MOISTURE DETERMINATION

ASTM D4643

Container ID **C-4**

Mass of container & wet specimen (M_{cms})	351.2	g
Mass of container & dry specimen (M_{cds})	327.7	g
Mass of water (M_w) $M_w = M_{cms} - M_{cds}$	23.5	g
Mass of container (M_c)	164.1	g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$	163.6	g
Moisture content (w) $w = (M_w / M_s) \times 100$	14.4	%

Dry Density $(\rho_d) = (100 \times \rho_m)/(100 + w)$

$\rho d = (100 \times 113.1) / (100 + 14.4) = 98.9$ lbs/ft³

Note: Wet Density from ASTM D 1556 (ρ_m) takes presidence over ASTM D 6938 (ρ_m)

Percent Compaction = $\rho_d / \gamma_d max \times 100$

$98.9 / 108.9 \times 100 = 90.8$ %

Soil Description: **Redish grey Clay w/sand**

Proctor ID: **RRM # 7**

Standard Proctor (ASTM D698)

Maximum Dry Density ($\gamma_d max$) **108.9** (lbs/ft³)

Optimum Moisture (w_{opt}) **17.3** (%)

Required Moisture: **14.3** % to **20.3** %

Required Percent Compaction: **90.0** (%)

Comments:

Microwave oven power setting on HIGH. Initial time setting of 3 minutes and subsequent incremental drying periods of 1 minute until a change of 0.1 % or less of the initial wet mass of the soil.

TEST RESULTS:

X Pass Date: **8/27/09**

____ Failed Moisture

____ Failed Compaction Time: **1400**

By: **David Stewart** *(print)* / David Stewart *(signature)*

R. Reed Fossi 8-27-09

QA/QC APPROVAL DATE

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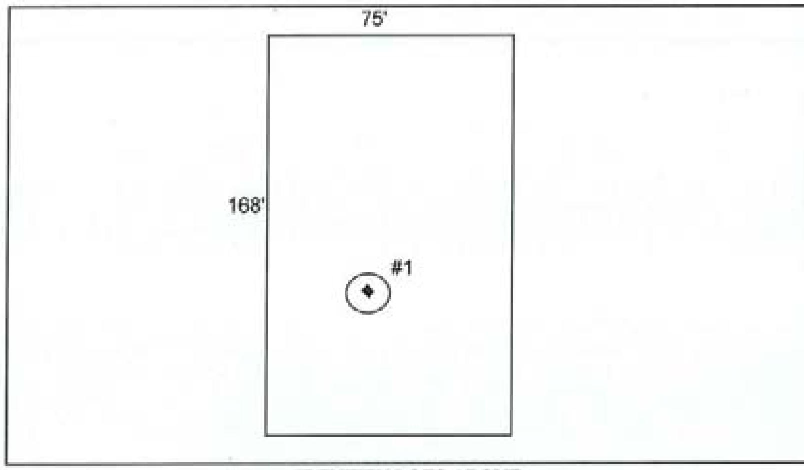
LIFT APPROVAL FORM

PROJECT: Moab UMTRA Project **OTHER**
NW CORNER **DATE:** 8/27/2009



P_1	6794506 N 2122300 E				
EW:	75	X	0.387	=	29
NS:	168	X	0.681	=	114
P_2					
EW:		X		=	
NS:		X		=	
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: UWF28090827-01 NW CORNER: 6794620 N 2122329

THICKNESS: UNC: <= 12" COM: N/A ELEV: N/A Debris Insp. By: N/A Date: N/A Time: N/A

Comments: QC performed an inplace moisture/density test in correlation with the CAES using the CAT 825h Soils compacter to verify that the minimum 90% compaction will be achieved when performing 3 machine passes.

KEYING IN NOTES: N E S W W DENSITY TESTS ID # (S): 1

LIFT APPROVED BY: David Stewart/Beachem Bosh DATE: 8/27/2009 TIME: 1450

A. Reed Iossi 08-27-09
QA/QC APPROVAL DATE

Density Testing
DOE-EM/GJRAC1783
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ENERGYSOLUTIONS

Slope Elevation Survey

	Grid Size	20'			Northing	Easting
Lift ID:	UWF28090827-01			Lower Left	N	
	PASS			Upper Right		A
Last Lift Elevations			Lift Approval Elevations			Lift Thickness
Northing	Easting	Elevation	Northing	Easting	Elevation	Thickness
6794424	2122316	4970.5	6794424	2122316	4970.5	0.0
6794444	2122316	4968.3	6794444	2122316	4968.7	0.4
6794464	2122316	4965.8	6794464	2122316	4966.3	0.5
6794484	2122316	4963.2	6794484	2122316	4963.8	0.6
6794424	2122336	4970.4	6794424	2122336	4970.5	0.1
6794444	2122336	4968.4	6794444	2122336	4968.9	0.5
6794464	2122336	4966.0	6794464	2122336	4966.4	0.4
6794484	2122336	4963.5	6794484	2122336	4964.1	0.6
6794504	2122336	4961.1	6794504	2122336	4961.8	0.7
6794524	2122336	4958.6	6794524	2122336	4959.2	0.7
6794544	2122336	4955.7	6794544	2122336	4956.6	0.9
6794564	2122336	4952.7	6794564	2122336	4953.6	1.0
6794584	2122336	4949.5	6794584	2122336	4950.3	0.9
6794444	2122356	4969.0	6794444	2122356	4969.8	0.8
6794464	2122356	4966.9	6794464	2122356	4967.6	0.7
6794484	2122356	4964.5	6794484	2122356	4965.2	0.7
6794504	2122356	4962.0	6794504	2122356	4962.6	0.6
6794524	2122356	4959.2	6794524	2122356	4959.9	0.7
6794544	2122356	4956.2	6794544	2122356	4957.0	0.8
6794564	2122356	4953.0	6794564	2122356	4953.9	0.9
6794584	2122356	4949.6	6794584	2122356	4950.3	0.8
6794444	2122376	4969.1	6794444	2122376	4970.0	0.9
6794464	2122376	4967.0	6794464	2122376	4967.8	0.9
6794484	2122376	4964.6	6794484	2122376	4965.3	0.7
6794504	2122376	4962.1	6794504	2122376	4962.5	0.4
6794524	2122376	4959.1	6794524	2122376	4959.6	0.5
6794544	2122376	4955.9	6794544	2122376	4956.6	0.7
6794564	2122376	4952.4	6794564	2122376	4953.1	0.8
6794584	2122376	4948.9	6794584	2122376	4949.5	0.6
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
			N/A			0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0

EnergySolutions

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% >=6	79.2%
Elevation Avg	4957.9
Total >=6	911
Total Lines	1150

Pass

Minimum Number of Machine Passes: 3

Lift ID: UWF20090827-01

Northing	Easting	Elevation	# of Passes	Passes =>6	Count
6794454	2122292	4968.9	6	1	1
6794457	2122292	4968.4	6	1	1
6794460	2122292	4968.0	6	1	1
6794454	2122295	4968.7	6	1	1
6794457	2122295	4968.2	6	1	1
6794460	2122295	4967.8	6	1	1
6794463	2122295	4967.3	6	1	1
6794467	2122295	4966.8	6	1	1
6794470	2122295	4966.3	6	1	1
6794473	2122295	4965.8	6	1	1
6794477	2122295	4965.3	6	1	1
6794480	2122295	4964.8	6	1	1
6794483	2122295	4964.3	6	1	1
6794454	2122299	4968.5	6	1	1
6794457	2122299	4968.1	5		1
6794460	2122299	4967.6	5		1
6794463	2122299	4967.1	5		1
6794467	2122299	4966.6	6	1	1
6794470	2122299	4966.1	6	1	1
6794473	2122299	4965.7	6	1	1
6794477	2122299	4965.2	6	1	1
6794480	2122299	4964.7	6	1	1
6794483	2122299	4964.2	6	1	1
6794486	2122299	4963.8	5		1
6794490	2122299	4963.3	6	1	1
6794493	2122299	4962.9	6	1	1
6794496	2122299	4962.7	6	1	1
6794500	2122299	4962.2	6	1	1
6794503	2122299	4961.7	6	1	1
6794454	2122302	4968.4	6	1	1
6794457	2122302	4967.9	6	1	1
6794460	2122302	4967.4	6	1	1
6794463	2122302	4966.9	5		1
6794467	2122302	4966.5	5		1
6794470	2122302	4967.1	4		1
6794473	2122302	4966.8	4		1
6794477	2122302	4965.3	6	1	1
6794480	2122302	4964.6	6	1	1
6794483	2122302	4964.1	4		1
6794486	2122302	4963.6	4		1
6794490	2122302	4963.2	2		1
6794493	2122302	4962.8	6	1	1
6794496	2122302	4963.0	3		1
6794500	2122302	4961.8	4		1

Lift Height
6"

Thick Lift Threshold
1' 0"

Last Lift Elevation
N/A

Min. # of Wheel Passes
6

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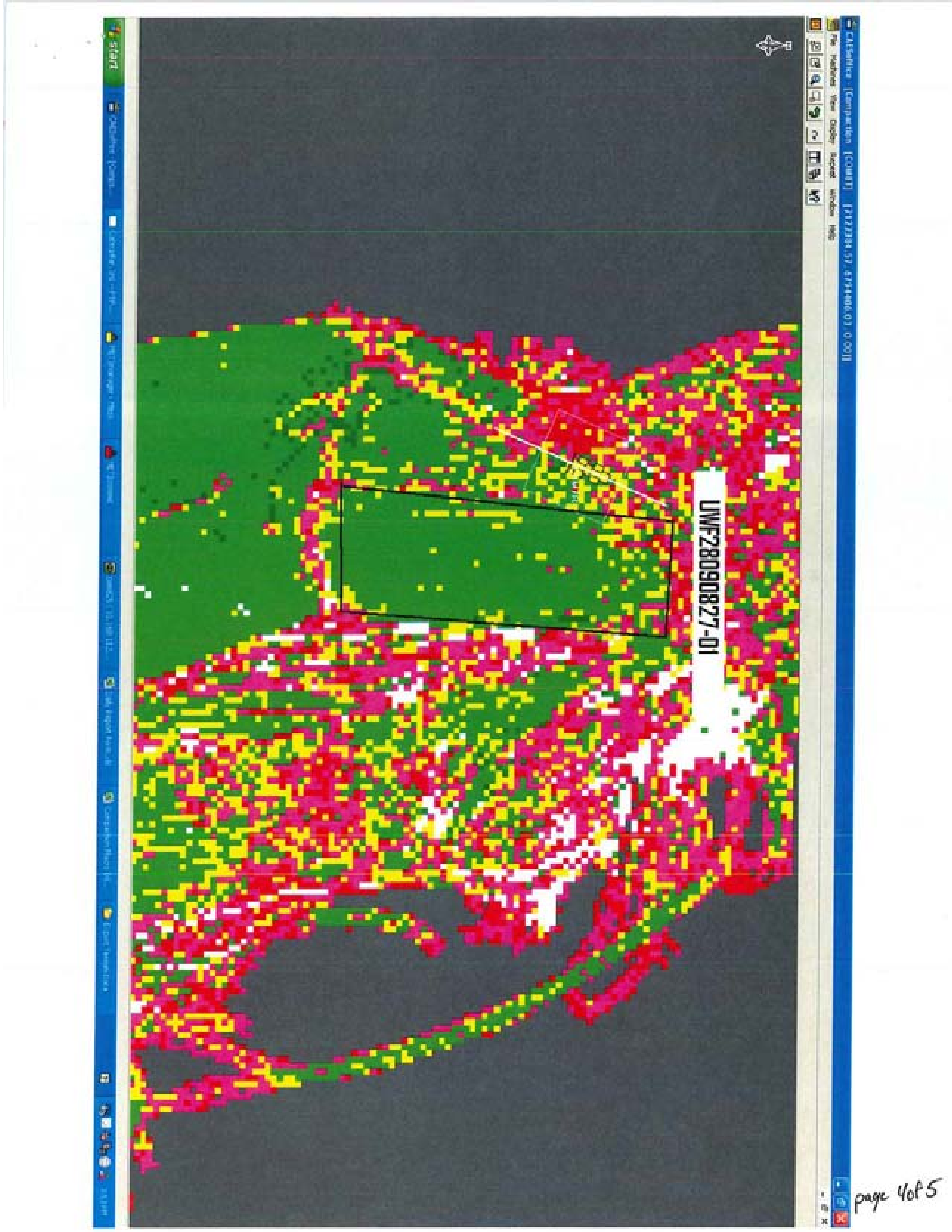
A2. RRM
CAES-Equipped 825H Compactor Lift Approval Packages



ENERGYSOLUTIONS

FIELD DENSITY TEST

PROJECT: Moab UMTRA Project OTHER ______
LIFT IDENTIFICATION: UWF28090827-01 DATE: 8/27/2009
TEST ID NUMBER(S): 1
TEST LOCATION: 6794506 N 2122300 E TEST METHOD: ____ D1556 x D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model Troxler 3430 Gauge Serial # 27523
Last Calibration Date: 8/21/09
Daily Standard Counts: *On-Cell Standard*

Density 2252 Moisture 671

Method A (Direct Transmission)
Depth Setting 6 *(inches)* Count Time 1 *(minutes)*

Moisture Count 208 Density Count 2627

Wet Density (ρ_m) 120.6 (lbs/ft^3) Dry Density 102.9 (lbs/ft^3)

Moisture Density 17.9 (lbs/ft^3) Moisture Fraction 17.5 (%)

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ____ Calibrated Vol. (lbs/ft^3) ____
Bulk Density of sand (ρ_1) ____ g/cm^3 ____ lbs/ft^3
Mass of Sand to Fill Cone & Plate (M_2) ____ g

Mass of bottle & cone **before** filling cone, plate & hole		g
Mass of bottle & cone **after** filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container		g
Mass of container		g
Mass of wet soil (M_3)		g

Test Hole Volume
$V = (M_1 - M_2) / \rho_1$ ____ cm^3

Dry Mass of soil
$M_4 = 100\ M_3 / (w + 100)$ ____ g

Wet Denisty
$\rho_m = (M_3 / V) \times 62.43$ ____ lbs/ft^3

Dry Denisty
$\rho_d = M_4 / V$ ____ g/cm^3

Dry Unit Weight
$\gamma_d = \rho_d \times 62.43$ ____ lbs/ft^3

MOISTURE DETERMINATION

ASTM D4643

Container ID C-6

Mass of container & wet specimen (M_{cms})	316.7	g
Mass of container & dry specimen (M_{cds})	295.0	g
Mass of water (M_w) $M_w = M_{cms} - M_{cds}$	21.7	g
Mass of container (M_c)	165.4	g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$	129.6	g
Moisture content (w) $w = (M_w / M_s) \times 100$	16.7	%

Soil Description: Clay with sand Grey with red
Proctor ID: RRM#7
Standard Proctor (ASTM D698)

Dry Density $(\rho_d) = (100 \times \rho_m)/(100 + w)$

$\rho d = (100 \times 120.6) / (100 + 16.7) = 103.3$ lbs/ft^3

Note: Wet Density from ASTM D 1556 (ρ_m) takes presidence over ASTM D 6938 (ρ_m)

Percent Compaction = ρ_d / $\gamma_d max \times 100$

103.3 / 108.9 x 100 = 94.9 %

Maximum Dry Density ($\gamma_d max$) 108.9 (lbs/ft^3)

Optimum Moisture (w_{opt}) 17.3 (%)

Required Moisture: 14.3 % to 20.3 %

Required Percent Compaction: 90.0 (%)

Comments:
Microwave oven power setting on HIGH. Initial time setting of 3 minutes and subsequent incremental drying periods of 1 minute until a change of 0.1 % or less of the initial wet mass of the soil.

TEST RESULTS:
X Pass Date: 8/27/09
____ Failed Moisture
____ Failed Compaction Time: 1450
By: David Stewart *(print)* / [signature] *(signature)*

[signature] 8-27-09
QA/QC APPROVAL DATE

Density Testing
DOE-EM/GJRAC1783
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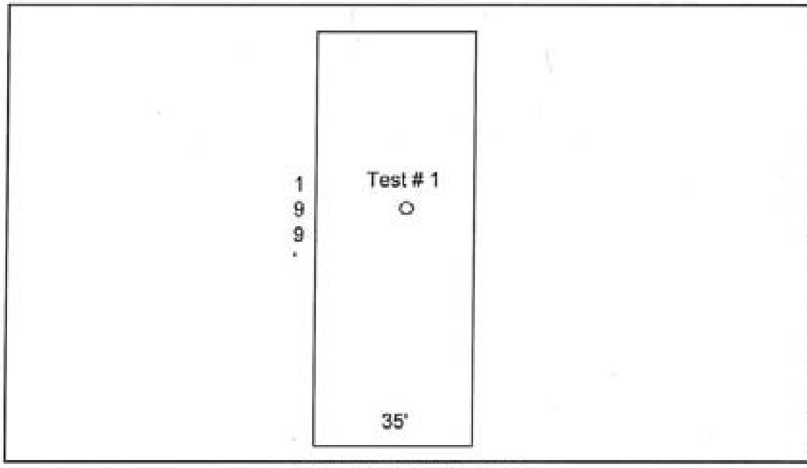
A2. RRM
CAES-Equipped 825H Compactor Lift Approval Packages

ENERGYSOLUTIONS

LIFT APPROVAL FORM

PROJECT:	Moab UMTRA Project	OTHER	
NW CORNER		DATE:	8/27/2009



P 1	6794348 N 2122543 E				
EW:	199	X	0.414	=	82
NS:	35	X	0.623	=	22
P 2					
EW:		X		=	
NS:		X		=	
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: UWH31090827-01 NW CORNER: 6794370 N 2122461 E

THICKNESS: UNC: <= 12" COM: N/A ELEV: N/A Debris Insp. By: N/A Date: N/A Time: N/A

Comments: QC performed an in place nuclear moisture / density test in correlation with the CAES using the CAT 825h Soils compactor to verify that the minimum 90% compaction will be achieved when performing 3 machine passes. fill

KEYING IN NOTES: N E S W W DENSITY TESTS ID # (S): 1

LIFT APPROVED BY: David Stewart/Beachem Bosh DATE: 8/27/2009 TIME: 1550

A. Reed Irvain 08-27-09
QA/QC APPROVAL DATE

Density Testing
DOE-EM/GJRAC1783
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ENERGY*SOLUTIONS*

Slope Elevation Survey

Grid Size	15'	Northing	Easting
Lift ID:	UWH31090827-01	Lower Left	N
	PASS	Upper Right	A

Last Lift Elevations			Lift Approval Elevations			Lift Thickness
Northing	Easting	Elevation	Northing	Easting	Elevation	Thickness
6794327	2122470	4951.9	6794327	2122470	4952.7	0.8
6794342	2122470	4950.7	6794342	2122470	4951.1	0.4
6794357	2122470	4949.6	6794357	2122470	4949.7	0.1
6794282	2122485	4955.7	6794282	2122485	4956.6	0.9
6794297	2122485	4955.0	6794297	2122485	4955.4	0.4
6794312	2122485	4953.9	6794312	2122485	4954.5	0.6
6794327	2122485	4952.5	6794327	2122485	4953.1	0.6
6794342	2122485	4951.2	6794342	2122485	4951.5	0.3
6794357	2122485	4950.1	6794357	2122485	4950.2	0.2
6794237	2122500	4958.0	6794237	2122500	4958.9	0.9
6794252	2122500	4957.8	6794252	2122500	4958.5	0.8
6794267	2122500	4956.8	6794267	2122500	4957.7	0.8
6794282	2122500	4956.2	6794282	2122500	4956.9	0.7
6794297	2122500	4955.2	6794297	2122500	4955.8	0.6
6794312	2122500	4954.2	6794312	2122500	4954.9	0.7
6794177	2122515	4960.7	6794177	2122515	4961.3	0.7
6794192	2122515	4959.9	6794192	2122515	4960.6	0.7
6794207	2122515	4959.2	6794207	2122515	4959.9	0.7
6794222	2122515	4958.7	6794222	2122515	4959.4	0.6
6794237	2122515	4958.2	6794237	2122515	4958.7	0.6
6794252	2122515	4957.5	6794252	2122515	4958.3	0.7
6794267	2122515	4956.8	6794267	2122515	4957.6	0.8
6794177	2122530	4961.3	6794177	2122530	4961.4	0.1
6794192	2122530	4960.1	6794192	2122530	4960.5	0.3
6794207	2122530	4959.5	6794207	2122530	4959.8	0.4
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
			N/A			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

Energy*Solutions*

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% >=6	76.3%
Elevation Avg	4957.1
Total >=6	386
Total Lines	506

Pass

Minimum Number of Machine Passes: 3

Lift ID: UWH31090827-01

Northing	Easting	Elevation	# of Passes	Passes =>6	Count
6794351	2122464	4950.3	6	1	1
6794355	2122464	4950.0	6	1	1
6794358	2122464	4949.7	6	1	1
6794338	2122467	4951.7	6	1	1
6794342	2122467	4951.4	6	1	1
6794345	2122467	4951.1	6	1	1
6794348	2122467	4950.8	6	1	1
6794351	2122467	4950.6	6	1	1
6794355	2122467	4950.3	3		1
6794358	2122467	4949.9	6	1	1
6794322	2122470	4953.5	6	1	1
6794325	2122470	4953.3	6	1	1
6794328	2122470	4952.9	6	1	1
6794332	2122470	4952.6	6	1	1
6794335	2122470	4952.3	6	1	1
6794338	2122470	4951.9	6	1	1
6794342	2122470	4951.6	6	1	1
6794345	2122470	4951.3	6	1	1
6794348	2122470	4950.9	6	1	1
6794351	2122470	4950.6	6	1	1
6794355	2122470	4950.4	6	1	1
6794358	2122470	4950.0	6	1	1
6794309	2122474	4954.7	6	1	1
6794312	2122474	4954.4	6	1	1
6794315	2122474	4954.2	6	1	1
6794319	2122474	4953.9	6	1	1
6794322	2122474	4953.6	6	1	1
6794325	2122474	4953.3	6	1	1
6794328	2122474	4952.9	6	1	1
6794332	2122474	4952.6	6	1	1
6794335	2122474	4952.3	6	1	1
6794338	2122474	4952.0	6	1	1
6794342	2122474	4951.7	6	1	1
6794345	2122474	4951.4	6	1	1
6794348	2122474	4951.1	6	1	1
6794351	2122474	4950.9	5		1
6794355	2122474	4950.6	6	1	1
6794358	2122474	4950.3	6	1	1
6794361	2122474	4949.9	6	1	1
6794299	2122477	4955.5	6	1	1
6794302	2122477	4955.3	6	1	1
6794306	2122477	4955.0	6	1	1
6794309	2122477	4954.8	6	1	1
6794312	2122477	4954.5	6	1	1

Lift Height	6"
Thick Lift Threshold	1' 0"
Last Lift Elevation	N/A
Min. # of Wheel Passes	6

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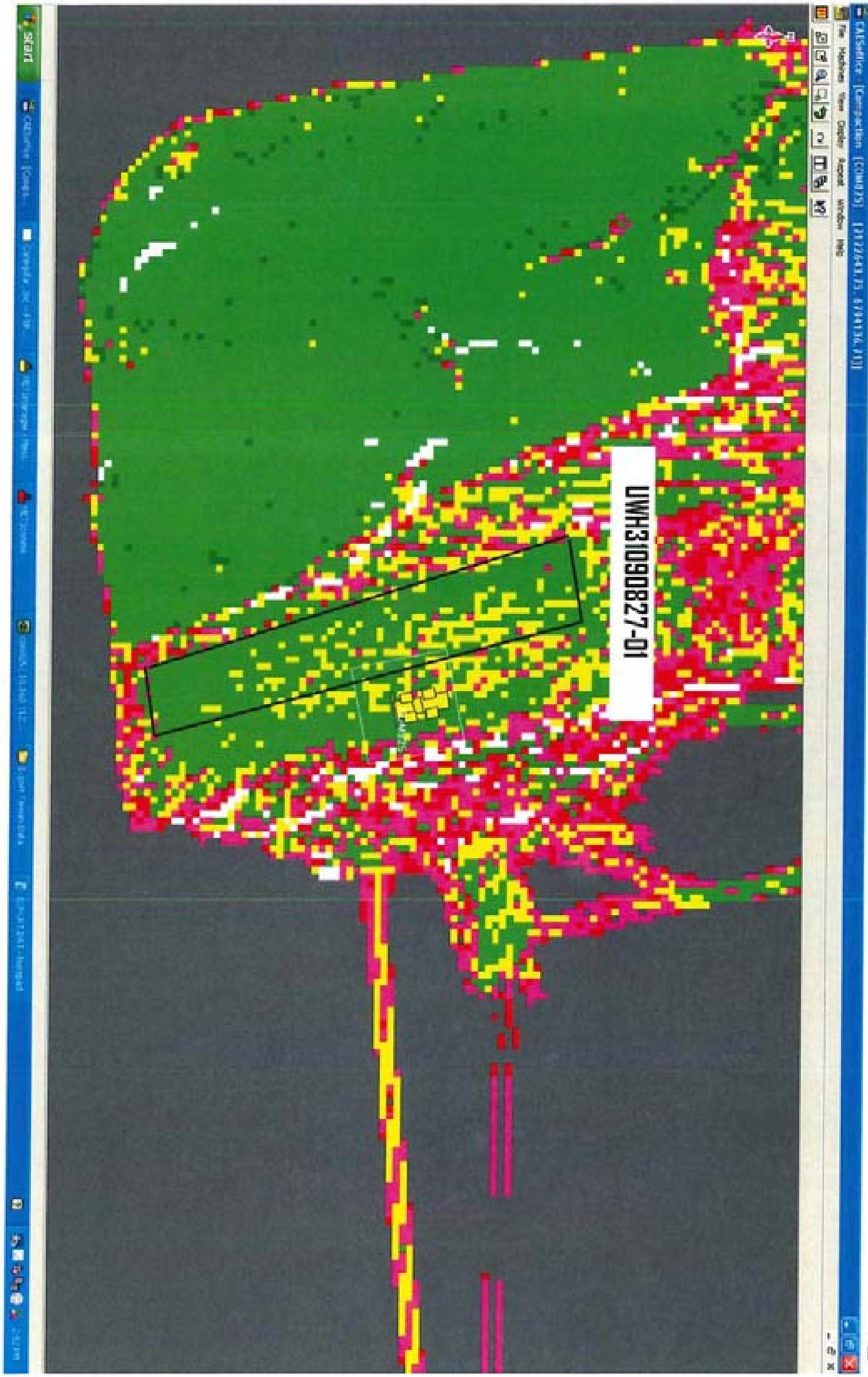
A2. RRM
CAES-Equipped 825H Compactor Lift Approval Packages



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ENERGYSOLUTIONS

FIELD DENSITY TEST

PROJECT: **Moab UMTRA Project** | **OTHER** ______

LIFT IDENTIFICATION: **UWH31090827-01** | DATE: **8/27/2009**

TEST ID NUMBER(S): **1**

TEST LOCATION: **6794348 N 2122543 E** | TEST METHOD: ____ D1556 **x** D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model **Troxler 3430** Gauge Serial # **27523**

Last Calibration Date: **8/21/09**

Daily Standard Counts: *On-Cell Standard*

Density **2252** Moisture **671**

Method A (Direct Transmission)

Depth Setting **6** *(inches)* Count Time **1** *(minutes)*

Moisture Count **214** Density Count **2624**

Wet Density (ρ_w) **117.6** (lbs/ft^3) Dry Density **98.9** (lbs/ft^3)

Moisture Density **18.6** (lbs/ft^3) Moisture Fraction **18.8** (%)

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ____ Calibrated Vol. (lbs/ft^3) ____

Bulk Density of sand (ρ_1) ____ g/cm^3 ____ lbs/ft^3

Mass of Sand to Fill Cone & Plate (M_2) ____ g

Mass of bottle & cone **before** filling cone, plate & hole		g
Mass of bottle & cone **after** filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container		g
Mass of container		g
Mass of wet soil (M_3)		g

N/A

Test Hole Volume
$V = (M_1 - M_2) / \rho_1$ ____ cm^3

Dry Mass of soil
$M_4 = 100\, M_3 / (w + 100)$ ____ g

Wet Denisty
$\rho_m = (M_3 / V) \times 62.43$ ____ lbs/ft^3

Dry Denisty
$\rho_d = M_4 / V$ ____ g/cm^3

Dry Unit Weight
$\gamma_d = \rho_d \times 62.43$ ____ lbs/ft^3

MOISTURE DETERMINATION

ASTM D4643

Container ID **C-1**

Mass of container & wet specimen (M_{cms})	290.7	g
Mass of container & dry specimen (M_{cds})	271.3	g
Mass of water (M_w) $M_w = M_{cms} - M_{cds}$	19.4	g
Mass of container (M_c)	164.4	g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$	106.9	g
Moisture content (w) $w = (M_w / M_s) \times 100$	18.1	%

Soil Description: **Redish grey Clay w/sand**

Proctor ID: **RRM # 7**

Standard Proctor (ASTM D698)

Dry Density $(\rho_d) = (100 \times \rho_m)/(100 + w)$

$\rho d = (100 \times$ **117.6** $) / (100 +$ **18.1** $) =$ **99.5** lbs/ft^3

Note: Wet Density from ASTM D 1556 (ρ_m) takes presidence over ASTM D 6938 (ρ_w)

Percent Compaction = ρ_d / $\gamma_d max \times 100$

99.5 / **108.9** x 100 = **91.4** %

Maximum Dry Density ($\gamma_d max$) **108.9** (lbs/ft^3)

Optimum Moisture (w_{opt}) **17.3** (%)

Required Moisture: **14.3** % to **20.3** %

Required Percent Compaction: **90.0** (%)

Comments:
Microwave oven power setting on HIGH. Initial time setting of 3 minutes and subsequent incremental drying periods of 1 minute until a change of 0.1 % or less of the initial wet mass of the soil.

TEST RESULTS:
X Pass Date: **8/27/09**
____ Failed Moisture
____ Failed Compaction Time: **1530**

By: **David Stewart** / [signature]
(print) *(signature)*

[signature] 08-27-09
QA/QC APPROVAL DATE

Density Testing
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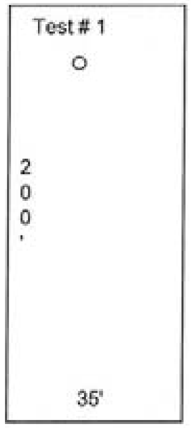
ENERGYSOLUTIONS

LIFT APPROVAL FORM

PROJECT: Moab UMTRA Project OTHER

NW CORNER DATE: 8/27/2009



P 1	6794348 N 2122511 E				
EW:	35	X	0.474	=	17
NS:	200	X	0.122	=	24
P 2					
EW:		X		=	
NS:		X		=	
P 3					
EW:		X		=	
NS:		X	N/A	=	
P 4					
EW:		X		=	
NS:		X		=	
P 5					
EW:		X		=	
NS:		X		=	
Page 2 attached:			Y		N

IDENTIFY LOTS ABOVE

LIFT ID: UWH32090827-01 NW CORNER: 6794372 N 2122494

THICKNESS: UNC: <=12" COM: N/A ELEV: N/A Debris Insp. By: N/A Date: N/A Time: N/A

Comments: This lift is the East half of UWI31, UWI31 was divided into 2 lifts. QC performed an in place moisture/density test in correlation with the CAES using the CAT 825h Soils compactor to verify that the minimum 90% compaction will be achieved when performing 3 machine passes.

KEYING IN NOTES: N E S W N/A DENSITY TESTS ID # (S): 1

LIFT APPROVED BY: David Stewart/Beachem bosh DATE: 8/27/2000 TIME: 1550

QA/QC APPROVAL DATE 08-27-09

Density Testing
DOE-EM/GJRAC1783
Rev. 0

QC-F-001
File index No. 43.8.2
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ENERGYSOLUTIONS

Slope Elevation Survey

	Grid Size	20'			Northing	Easting
Lift ID:	UWH32090827-01			Lower Left	N	
	PASS			Upper Right		A
Last Lift Elevations			Lift Approval Elevations			Lift Thickness
Northing	Easting	Elevation	Northing	Easting	Elevation	Thickness
6794320	2122505	4953.5	6794320	2122505	4954.2	0.7
6794340	2122505	4951.8	6794340	2122505	4952.3	0.5
6794360	2122505	4949.7	6794360	2122505	4950.0	0.3
6794260	2122525	4957.0	6794260	2122525	4958.1	1.0
6794280	2122525	4956.0	6794280	2122525	4956.8	0.9
6794300	2122525	4954.7	6794300	2122525	4955.6	0.9
6794320	2122525	4953.4	6794320	2122525	4954.0	0.6
6794340	2122525	4951.6	6794340	2122525	4951.9	0.3
6794360	2122525	4949.4	6794360	2122525	4949.4	0.0
6794200	2122545	4960.1	6794200	2122545	4960.4	0.4
6794220	2122545	4959.1	6794220	2122545	4959.8	0.8
6794240	2122545	4957.9	6794240	2122545	4958.9	1.0
6794260	2122545	4956.9	6794260	2122545	4957.8	0.9
6794280	2122545	4955.8	6794280	2122545	4956.5	0.7
6794300	2122545	4953.9	6794300	2122545	4954.4	0.5
6794320	2122545	4951.0	6794320	2122545	4951.1	0.1
6794180	2122565	4961.8	6794180	2122565	4961.9	0.1
6794200	2122565	4960.2	6794200	2122565	4960.6	0.4
6794220	2122565	4957.9	6794220	2122565	4957.8	0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
			N/A			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
						0.0
						0.0

EnergySolutions

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% >=6	78.1%
Elevation Avg	4956.4
Total >=6	459
Total Lines	588

Pass

Minimum Number of Machine Passes: 3

Lift ID: UWH32090827-01

Northing	Easting	Elevation	# of Passes	Passes =>6	Count
6794362	2122497	4950.7	6	1	1
6794366	2122497	4950.3	6	1	1
6794346	2122500	4952.2	6	1	1
6794349	2122500	4952.1	5		1
6794352	2122500	4951.8	5		1
6794356	2122500	4951.3	4		1
6794359	2122500	4950.9	5		1
6794362	2122500	4950.5	4		1
6794366	2122500	4949.9	4		1
6794369	2122500	4949.5	5		1
6794330	2122503	4953.8	6	1	1
6794333	2122503	4953.5	6	1	1
6794336	2122503	4953.2	6	1	1
6794339	2122503	4953.1	4		1
6794343	2122503	4952.7	4		1
6794346	2122503	4952.3	4		1
6794349	2122503	4952.1	3		1
6794352	2122503	4951.7	3		1
6794356	2122503	4950.8	6	1	1
6794359	2122503	4950.2	6	1	1
6794362	2122503	4949.8	6	1	1
6794366	2122503	4949.5	6	1	1
6794369	2122503	4949.0	5		1
6794313	2122506	4955.1	6	1	1
6794316	2122506	4954.9	6	1	1
6794320	2122506	4954.6	6	1	1
6794323	2122506	4954.3	4		1
6794326	2122506	4954.1	4		1
6794330	2122506	4954.1	6	1	1
6794333	2122506	4953.6	6	1	1
6794336	2122506	4953.4	5		1
6794339	2122506	4953.0	5		1
6794343	2122506	4952.1	5		1
6794346	2122506	4951.8	6	1	1
6794349	2122506	4951.4	6	1	1
6794352	2122506	4951.0	6	1	1
6794356	2122506	4950.6	6	1	1
6794359	2122506	4950.2	6	1	1
6794362	2122506	4950.1	6	1	1
6794366	2122506	4949.4	6	1	1
6794369	2122506	4949.0	6	1	1
6794300	2122510	4956.1	6	1	1
6794303	2122510	4956.1	4		1
6794307	2122510	4956.1	5		1

Lift Height	6"
Thick Lift Threshold	1' 0"
Last Lift Elevation	N/A
Min. # of Wheel Passes	6

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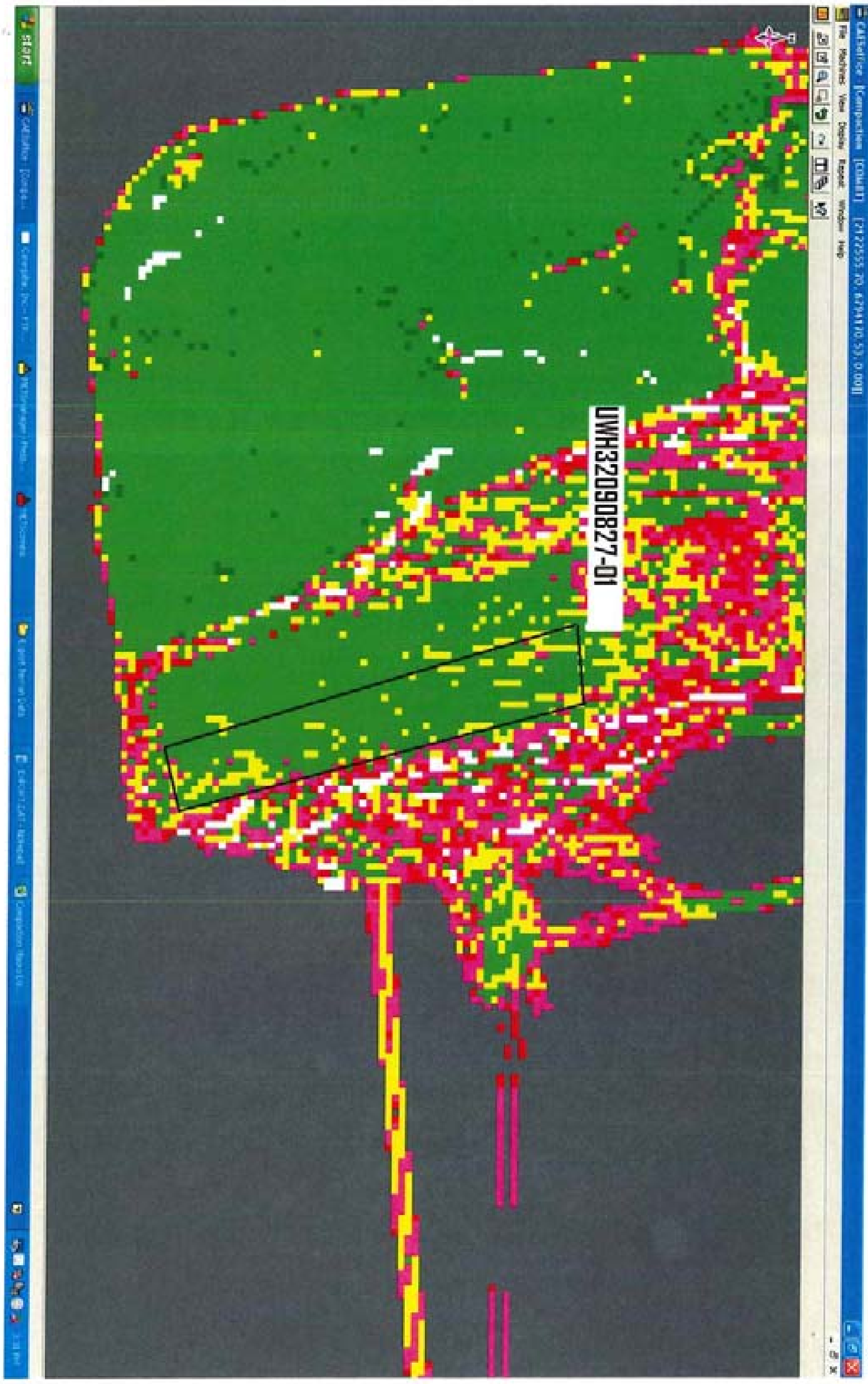
A2. RRM
CAES-Equipped 825H Compactor Lift Approval Packages



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ENERGYSOLUTIONS

FIELD DENSITY TEST

PROJECT: Moab UMTRA Project
OTHER ______
LIFT IDENTIFICATION: UWH32090827-01
DATE: 8/27/2009
TEST ID NUMBER(S): 1
TEST LOCATION: 6794348 N 2122511 E
TEST METHOD: ___ D1556 x D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model Troxler 3430 Gauge Serial # 27532
Last Calibration Date: 8/21/09
Daily Standard Counts: *On-Cell Standard*
Density 2252 Moisture 671
Method A (Direct Transmission)
Depth Setting 6 *(inches)* Count Time 1 *(minutes)*
Moisture Count 220 Density Count 2467
Wet Density (ρ_m) 120.2 *(lbs/ft³)* Dry Density 101.0 *(lbs/ft³)*
Moisture Density 19.2 *(lbs/ft³)* Moisture Fraction 19.0 *(%)*

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus ___ Calibrated Vol. *(lbs/ft³)* ___
Bulk Density of sand (ρ_1) ___ g/cm³ ___ lbs/ft³
Mass of Sand to Fill Cone & Plate (M_2) ___ g

Mass of bottle & cone **before** filling cone, plate & hole		g
Mass of bottle & cone **after** filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container		g
Mass of container		g
Mass of wet soil (M_3)		g

Test Hole Volume $V = (M_1 - M_2) / \rho_1$ ___ cm³
Dry Mass of soil $M_4 = 100\ M_3 / (w + 100)$ ___ g
Wet Denisty $\rho_m = (M_3 / V) \times 62.43$ ___ lbs/ft³
Dry Denisty $\rho_d = M_4 / V$ ___ g/cm³
Dry Unit Weight $\gamma_d = \rho_d \times 62.43$ ___ lbs/ft³

N/A

MOISTURE DETERMINATION

ASTM D4643

Container ID C-4

Mass of container & wet specimen (M_{cms})	315.0	g
Mass of container & dry specimen (M_{cds})	292.2	g
Mass of water (M_w) $M_w = M_{cms} - M_{cds}$	22.8	g
Mass of container (M_c)	164.1	g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$	128.1	g
Moisture content (w) $w = (M_w / M_s) \times 100$	17.8	%

Soil Description: Redish grey clay w/sand
Proctor ID: RRM # 7
Standard Proctor (ASTM D698)

Dry Density $(\rho_d) = (100 \times \rho_m)/(100 + w)$

$\rho d = (100 \times \underline{120.2}) / (100 + \underline{17.8}) = \underline{102.0}$ lbs/ft³

Note: Wet Density from ASTM D 1556 (ρ_m) takes presidence over ASTM D 6938 (ρ_m)

Percent Compaction = ρ_d / $\gamma_d max \times 100$

$\underline{102.0} / \underline{108.9} \times 100 = \underline{93.7}$ %

Maximum Dry Density ($\gamma_d max$) 108.9 (lbs/ft³)
Optimum Moisture (w_{opt}) 17.3 (%)
Required Moisture: 14.3 % to 20.3 %
Required Percent Compaction: 90.0 (%)

Comments:
Microwave oven power setting on HIGH. Initial time setting of 3 minutes and subsequent incremental drying periods of 1 minute until a change of 0.1 % or less of the initial wet mass of the soil.

TEST RESULTS:
X Pass
___ Failed Moisture
___ Failed Compaction
Date: 8/27/09
Time: 1550
By: David Stewart / [signature]
(print) *(signature)*

[signature] 08-27-09
QA/QC APPROVAL DATE

Density Testing
DOE-EM/GJRAC1783
Rev. 0

QC-F-002
File Index No. 43.8.2
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A2. RRM
Standard Proctor Test Results Summary

Set	Proctor ID #	Date Sampled	Date Approved	Maximum Dry Density (lb/ft^3)	Optimum Moisture Content (%)	Soils Description
	RRM #1	02/26/09	04/10/09	108.1	15.1	Sandy material with sand reddish in color.
Set #1	RRM #2	03/05/09	04/10/09	114.3	15.5	Clayish with sand reddish-gray in color.
	RRM #3	03/05/09	04/10/09	113.7	15.3	Sandy with clay reddish-gray in color.
	RRM #4	03/05/09	04/10/09	111.8	16.5	Clayish with sand reddish-gray in color.
Set #2	RRM #5	04/15/09	05/01/09	108.9	17.7	Clayish material with sand grayish-red in color.
	RRM #6	04/15/09	05/01/09	112.0	16.7	Clayish material with sand grayish-red in color.
	RRM #7	04/15/09	05/01/09	108.9	17.3	Clayish material with sand grayish-red in color.
N/A	RRM #8	Proctor sets rejected due to proctor curves.				
	RRM #9					
	RRM #10					
N/A	RRM #11	Proctor sets rejected due to only 2 proctors for the set.				
	RRM #12					
Set #3	RRM #13	07/23/09	07/30/09	110.0	17.9	Red grayish-brown clay with some sand and little rock (rock is less than 5%).
	RRM #14	07/23/09	07/30/09	110.6	17.3	Red grayish-brown clay with some sand and little rock (rock is less than 5%).
	RRM #15	07/23/09	07/30/09	112.4	15.1	Red grayish-brown clay with some sand and little rock (rock is less than 5%).
Set #4	RRM #16	08/08/09	09/21/09	109.3	16.4	Grayish-red in color clayish material with sand.
	RRM #17	08/08/09	09/21/09	111.8	16.8	Grayish-red in color clayish material with sand.
	RRM #18	08/08/09	09/21/09	113.7	16.0	Grayish-red in color clayish material with sand.
	RRM #19	08/08/09	09/21/09	111.4	16.5	Grayish-red in color clayish material with sand.
Set #5	RRM #20	08/14/09	09/21/09	110.0	17.8	Grayish-red in color clayish material with sand.
	RRM #21	08/14/09	09/21/09	112.0	16.2	Grayish-red in color clayish material with sand.
	RRM #22	08/14/09	09/21/09	110.8	16.9	Grayish-red in color clayish material with sand.
Set #6	RRM #23	08/17/09	09/21/09	114.3	14.6	Red and brown in color, sandy material with some clay.
	RRM #24	08/17/09	09/21/09	115.0	14.9	Red and brown in color, sandy material with some clay.
	RRM #25	08/17/09	09/21/09	114.5	14.5	Red and brown in color, sandy material with some clay.
Set #7	RRM #26	08/26/09	09/22/09		11.7	Sandy material reddish-brown in color.
	RRM #27	08/26/09	09/22/09	118.1	11.4	Sandy material reddish-brown in color.
	RRM #28	08/26/09	09/22/09	119.8	11.2	Sandy material reddish-brown in color.
Set #8	RRM #29	08/31/09	09/22/09	115.7	15.3	Clayish material with sand grayish-red in color.
	RRM #30	08/31/09	09/22/09	115.9	14.5	Clayish material with sand grayish-red in color.
	RRM #31	08/31/09	09/22/09	115.7	15.0	Clayish material with sand grayish-red in color.
Set #9	RRM #32	09/04/09	09/22/09	111.4	17.6	Clay and sand material mostly red with small specks of gray in color.
	RRM #33	09/04/09	09/22/09	110.0	17.9	Clay and sand material mostly red with small specks of gray in color.
	RRM #34	09/04/09	09/22/09	110.8	17.3	Clay and sand material mostly red with small specks of gray in color.
Set #10	RRM #35	09/11/09		110.6	14.0	Sand and clay, mostly red with some gray in color.
	RRM #36	09/11/09		111.2	15.2	Sand and clay, mostly red with some gray in color.
	RRM #37	09/11/09		111.3	14.5	Sand and clay, mostly red with some gray in color.
Set #11	RRM #38	10/07/09		111.3	16.5	Clay with sand reddish-gray in color.
	RRM #39	10/07/09		111.5	16.1	Clay with sand reddish-gray in color.
	RRM #40	10/07/09		110.4	16.4	Clay with sand reddish-gray in color.
Set #12	RRM #41	10/21/09		114.8	14.5	Sand with some clay, grayish-red in color.
	RRM #42	10/21/09		110.3	17.3	Sand with some clay, grayish-red in color.
	RRM #43	10/21/09		110.9	16.9	Sand with some clay, grayish-red in color.

A2. RRM
Standard Proctor Test Results Summary

Set	Proctor ID #	Date Sampled	Date Approved	Maximum Dry Density (lb/ft^3)	Optimum Moisture Content (%)	Soils Description
Set #13	RRM #44	10/26/09		113.3	15.9	Clay with sand, gray and red in color.
	RRM #45	10/26/09		113.7	15.2	Clay with sand, gray and red in color.
	RRM #46	10/26/09		113.0	15.9	Clay with sand, gray and red in color.
N/A	RRM #47	Proctor set rejected due to curves and only 2 proctors for the set.				
	RRM #48					
Set #15	RRM #49	11/04/09		117.1	12.7	Sandy material red in color.
	RRM #50	11/04/09		114.0	13.3	Sandy material red in color.
	RRM #51	11/04/09		116.3	12.4	Sandy material red in color.
Set #16	RRM #52	11/10/09		115.6	15.7	Clay with sand, grayish-red in color.
	RRM #53	11/10/09		115.1	16.5	Clay with sand, grayish-red in color.
	RRM #54	11/10/09		116.3	14.8	Clay with sand, grayish-red in color.
Set #17	RRM #55	11/20/09		118.2	11.7	Brownish-red very fine sand.
	RRM #56	11/20/09		119.2	11.8	Brownish-red very fine sand.
	RRM #57	11/20/09		120.1	11.7	Brownish-red very fine sand.
Set #18	RRM #58	12/03/09	04/06/10	113.7	14.9	Clay with sand grayish-red in color.
	RRM #59	12/03/09	04/06/10	111.1	16.9	Clay with sand grayish-red in color.
	RRM #60	12/03/09	04/06/10	113.3	14.9	Clay with sand grayish-red in color.
N/A	RRM #61	Proctor set rejected due to curves.				
	RRM #62					
	RRM #63					
Set #20	RRM #64	01/04/10	02/12/10	109.7	17.5	Reddish-brown slightly sandy clay.
	RRM #65	01/04/10	02/15/10	110.3	17.3	Reddish-brown slightly sandy clay.
	RRM #66	01/04/10	02/12/10	110.1	17.7	Reddish-brown slightly sandy clay.
N/A	RRM #67	Proctor sets rejected due to no rock correction performed.				
	RRM #68					
	RRM #69					
N/A	RRM #70	Proctor sets rejected due to no rock correction performed.				
	RRM #71					
	RRM #72					
Set #23	RRM #73	02/12/10	03/30/10	109.3	16.8	Reddish-brown silty fine sand.
	RRM #74	02/12/10	03/30/10	108.2	16.9	Reddish-brown silty fine sand.
	RRM #75	02/12/10	03/30/10	108.7	19.0	Reddish-brown silty fine sand.
Set #24	RRM #76	03/16/10	03/30/10	116.6	12.4	Light red-brown, orange-brown, very fine to coarse, silty sand.
	RRM #77	03/16/10	03/30/10	116.7	13.8	Light red-brown, orange-brown, very fine to coarse, silty sand.
	RRM #78	03/16/10	03/30/10	117.7	13.5	Light red-brown, orange-brown, very fine to coarse, silty sand.
Set #25	RRM #79	03/19/10	03/30/10	112.9	14.6	Light grayish-brown very fine sand with minor clay.
	RRM #80	03/22/10	03/30/10	112.0	15.4	Light grayish-brown very fine sand with minor clay.
	RRM #81	03/22/10	03/30/10	112.3	14.7	Light grayish-brown very fine sand with minor clay.
Set #26	RRM #82	03/26/10	03/30/10	114.2	11.5	Red, very fine coarse sand.
	RRM #83	03/26/10	03/30/10	115.3	12.0	Red, very fine coarse sand.
	RRM #84	03/26/10	03/26/10	113.9	12.1	Red, very fine coarse sand.
Set #27	RRM #85	04/02/10	04/06/10	108.8	15.6	Yellowish-brown, very fine to fine sand.
	RRM #86	04/01/10	04/06/10	110.3	16.0	Yellowish-brown, very fine to fine sand.
	RRM #87	04/02/10	04/06/10	108.5	15.1	Yellowish-brown, very fine to fine sand.
Set #28	RRM #88	04/12/10	04/14/10	107.3	16.6	Light yellowish-brown very fine to fine well-graded sand.
	RRM #89	04/12/10	04/14/10	107.3	17.9	Light yellowish-brown very fine to fine well-graded sand.
	RRM #90	04/12/10	04/14/10	106.8	19.0	Light yellowish-brown very fine to fine well-graded sand.

A2. RRM
Standard Proctor Test Results Summary

Set	Proctor ID #	Date Sampled	Date Approved	Maximum Dry Density (lb/ft^3)	Optimum Moisture Content (%)	Soils Description
Set #29	RRM #91	04/07/10	04/23/10	115.2	13.7	Light brown (2.5YR 6/3) very fine to fine, subangular to subround moderately sorted, sand with abundant clay.
	RRM #92	04/07/10	04/23/10	117.0	13.7	Light brown (2.5YR 6/3) very fine to fine, subangular to subround moderately sorted, sand with abundant clay.
	RRM #93	04/07/10	04/23/10	118.9	13.8	Light brown (2.5YR 6/3) very fine to fine, subangular to subround moderately sorted, sand with abundant clay.
Set #30	RRM #94	04/13/10	05/21/10	116.9	13.4	Brown (7.5YR5/4) very fine to medium, subround to round, poorly sorted sand with clay.
	RRM #95	04/13/10	05/21/10	114.8	14.1	Brown (7.5YR5/4) very fine to medium, subround to round, poorly sorted sand with clay.
	RRM #96	04/13/10	05/21/10	116.9	13.4	Brown (7.5YR5/4) very fine to medium, subround to round, poorly sorted sand with clay.
Set #31	RRM #97	04/29/10	05/21/10	121.8	12.3	Reddish-brown (2.5YR4/4) very fine to medium angular to subround, moderately sorted sand with minor clay.
	RRM #98	04/29/10	05/21/10	119.5	12.0	Reddish-brown (2.5YR4/4) very fine to medium angular to subround, moderately sorted sand with minor clay.
	RRM #99	04/29/10	05/21/10	119.8	12.2	Reddish-brown (2.5YR4/4) very fine to medium angular to subround, moderately sorted sand with minor clay.
Set #32	RRM #100	04/29/10	06/01/10	111.9	15.4	Dark yellowish-brown (10YR4/6) fine to medium, moderate to poorly-graded, subround sand with abundant brown and dark gray clay.
	RRM #101	04/29/10	06/01/10	112.3	15.5	Dark yellowish-brown (10YR4/6) fine to medium, moderate to poorly-graded, subround sand with abundant brown and dark gray clay.
	RRM #102	04/29/10	06/01/10	111.7	16.1	Dark yellowish-brown (10YR4/6) fine to medium, moderate to poorly-graded, subround sand with abundant brown and dark gray clay.
Set #33	RRM #103	05/10/10	06/01/10	112.1	16.8	Pale brown (10YR6/3) very fine to coarse, well-graded, angular, silty sand.
	RRM #104	05/10/10	06/01/10	111.7	17.9	Pale brown (10YR6/3) very fine to coarse, well-graded, angular, silty sand.
	RRM #105	05/10/10	06/01/10	114.5	15.7	Pale brown (10YR6/3) very fine to coarse, well-graded, angular, silty sand.
Set #34	RRM #106	05/24/10	07/12/10	118.5	13.7	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround, sand with minor silt.
	RRM #107	05/24/10	07/12/10	118.8	13.5	Medium, well-graded, subround, sand with minor silt.
	RRM #108	05/24/10	07/12/10	118.8	13.7	Medium, well-graded, subround, sand with minor silt.
Set #35	RRM #109	05/27/10	07/12/10	116.5	13.4	Light brown (7.5YR6/4) very fine to coarse, poorly-graded, round to sub angular sand with abundant silt.
	RRM #110	05/27/10	07/12/10	116.1	13.7	Light brown (7.5YR6/4) very fine to coarse, poorly-graded, round to sub angular sand with abundant silt.
	RRM #111	05/27/10	07/12/10	116.2	13.7	Light brown (7.5YR6/4) very fine to coarse, poorly-graded, round to sub angular sand with abundant silt.
Set #36	RRM #112	06/02/10	07/12/10	118.6	13.5	Reddish-brown (5YR5/4) very fine to coarse, well-graded, subround to subangular sand with minor silt.
	RRM #113	06/02/10	07/12/10	118.3	13.6	Reddish-brown (5YR5/4) very fine to coarse, well-graded, subround to subangular sand with minor silt.
	RRM #114	06/02/10	07/12/10	117.8	13.9	Reddish-brown (5YR5/4) very fine to coarse, well-graded, subround to subangular sand with minor silt.
Set #37	RRM #115	06/09/10	07/12/10	106.3	15.2	Pale brown (10YR6/3) very fine to medium well-graded, subround to subangular sand with trace silt.
	RRM #116	06/09/10	07/12/10	106.6	15.6	Pale brown (10YR6/3) very fine to medium well-graded, subround to subangular sand with trace silt.
	RRM #117	06/09/10	07/12/10	106.3	15.5	Pale brown (10YR6/3) very fine to medium well-graded, subround to subangular sand with trace silt.
Set #38	RRM #118	06/16/10	07/12/10	115.7	15.3	Reddish-brown (5YR5/3) very fine to medium, moderate to well-graded, sand with minor silt.
	RRM #119	06/16/10	07/12/10	115.8	15.1	Reddish-brown (5YR5/3) very fine to medium, moderate to well-graded, sand with minor silt.
	RRM #120	06/16/10	07/12/10	116.3	14.0	Reddish-brown (5YR5/3) very fine to medium, moderate to well-graded, sand with minor silt.

A2. RRM
Standard Proctor Test Results Summary

Set	Proctor ID #	Date Sampled	Date Approved	Maximum Dry Density (lb/ft^3)	Optimum Moisture Content (%)	Soils Description
Set #39	RRM #121	06/23/10	08/19/10	113.9	12.1	Pale brown (10YR6/3) very fine to medium, well-graded, subround to sub angular sand with minor silt.
	RRM #122	06/23/10	08/19/10	115.7	11.9	Pale brown (10YR6/3) very fine to medium, well-graded, subround to sub angular sand with minor silt.
	RRM #123	06/23/10	08/19/10	114.8	12.0	Pale brown (10YR6/3) very fine to medium, well-graded, subround to sub angular sand with minor silt.
Set #40	RRM #124	07/13/10	08/19/10	115.9	13.1	Reddish-brown (5YR5/3) very fine to fine, well-graded, subround to subangular sand.
	RRM #125	07/13/10	08/18/10	116.2	14.2	Reddish-brown (5YR5/3) very fine to fine, well-graded, subround to subangular sand.
	RRM #126	07/13/10	08/18/10	115.9	14.6	Reddish-brown (5YR5/3) very fine to fine, well-graded, subround to subangular sand.
Set #41	RRM #127	07/19/10	08/18/10	119.0	13.5	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround to angular silty sand.
	RRM #128	07/19/10	08/18/10	118.5	13.6	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround to angular silty sand.
	RRM #129	07/19/10	08/18/10	119.0	13.7	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround to angular silty sand.
Set #42	RRM #130	07/22/10	08/18/10	117.8	13.5	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround to angular, silty sand.
	RRM #131	07/22/10	08/18/10	117.6	13.6	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround to angular, silty sand.
	RRM #132	07/22/10	08/18/10	118.0	13.7	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround to angular, silty sand.
Set #43	RRM #133	08/02/10	08/18/10	118.4	13.7	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround, silty sand.
	RRM #134	08/02/10	08/18/10	118.9	13.2	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround, silty sand.
	RRM #135	08/02/10	08/18/10	119.5	12.5	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround, silty sand.
Set #44	RRM #136	08/09/10	08/18/10	110.5	15.0	Light yellowish-brown, very fine to medium, well-graded, surround to sub angular, sand.
	RRM #137	08/09/10	08/18/10	110.8	16.5	Light yellowish-brown, very fine to medium, well-graded, surround to sub angular, sand.
	RRM #138	08/09/10	08/18/10	109.5	14.8	Light yellowish-brown, very fine to medium, well-graded, surround to sub angular, sand.
Set #45	RRM #139	08/16/10	09/03/10	118.8	13.2	Reddish-brown (5YR5/4) very fine to medium, well-graded, subangular to subround, slightly silty, sand.
	RRM #140	08/16/10	09/03/10	119.9	12.7	Reddish-brown (5YR5/4) very fine to medium, well-graded, subangular to subround, slightly silty, sand.
	RRM #141	08/16/10	09/03/10	119.9	12.7	Reddish-brown (5YR5/4) very fine to medium, well-graded, subangular to subround, slightly silty, sand.
Set #46	RRM #142	08/30/10	09/03/10	116.2	14.5	Reddish-brown (5YR5/4) Very fine to medium, well-graded subround sand with abundant clay.
	RRM #143	08/30/10	09/03/10	116.5	13.8	Reddish-brown (5YR5/4) Very fine to medium, well-graded subround sand with abundant clay.
	RRM #144	08/30/10	09/03/10	116.6	13.9	Reddish-brown (5YR5/4) Very fine to medium, well-graded subround sand with abundant clay.
Set #47	RRM #145	09/02/10	09/13/10	118.1	13.9	Reddish-brown (5YR5/4) Very fine to medium, well-graded, subround, sand with abundant clay.
	RRM #146	09/02/10	09/13/10	117.5	14.0	Reddish-brown (5YR5/4) Very fine to medium, well-graded, subround, sand with abundant clay.
	RRM #147	09/02/10	09/13/10	117.5	13.6	Reddish-brown (5YR5/4) Very fine to medium, well-graded, subround, sand with abundant clay.
N/A	RRM #148	Proctors rejected due to curves.				
	RRM #149					
	RRM #150					
Set #49	RRM #151	09/16/10	10/07/10	109.3	15.8	Reddish-brown (2.5YR5/4) very fine to medium, well-graded, subround to subangular silty sand.
	RRM #152	09/16/10	10/07/10	108.6	15.1	Reddish-brown (2.5YR5/4) very fine to medium, well-graded, subround to subangular silty sand.
	RRM #153	09/16/10	10/07/10	110.7	14.6	Reddish-brown (2.5YR5/4) very fine to medium, well-graded, subround to subangular silty sand.

A2. RRM
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Set	Proctor ID #	Date Sampled	Date Approved	Maximum Dry Density (lb/ft^3)	Optimum Moisture Content (%)	Soils Description
Set #50	RRM #154	09/29/10	10/15/10	117.7	14.2	Reddish-brown (5YR5/3) very fine to medium, moderately graded, subround to subangular sand.
	RRM #155	09/29/10	10/15/10	118.8	13.6	Reddish-brown (5YR5/3) very fine to medium, moderately graded, subround to subangular sand.
	RRM #156	09/29/10	10/15/10	116.8	14.6	Reddish-brown (5YR5/3) very fine to medium, moderately graded, subround to subangular sand.
Set #51	RRM #157	10/07/10	10/19/10	115.0	15.4	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround to subangular sand.
	RRM #158	10/07/10	10/19/10	116.1	14.8	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround to subangular sand.
	RRM #159	10/07/10	10/19/10	116.1	14.7	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround to subangular sand.
Set #52	RRM #160	10/18/10	11/01/10	115.3	14.9	Brown (7.5YR4/3) very fine to coarse, well-graded, subround to subangular, silty sand.
	RRM #161	10/18/10	11/01/10	115.4	14.8	Brown (7.5YR4/3) very fine to coarse, well-graded, subround to subangular, silty sand.
	RRM #162	10/18/10	11/01/10	115.1	14.8	Brown (7.5YR4/3) very fine to coarse, well-graded, subround to subangular, silty sand.
Set #53	RRM #163	10/25/10	11/16/10	118.3	14.0	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround to subangular, sand.
	RRM #164	10/25/10	11/16/10	118.3	13.7	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround to subangular, sand.
	RRM #165	10/25/10	11/16/10	118.1	13.9	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround to subangular, sand.
Set #54	RRM #166	11/02/10	12/08/10	113.6	16.6	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround, clayey silty sand.
	RRM #167	11/02/10	12/08/10	111.8	17.3	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround, clayey silty sand.
	RRM #168	11/02/10	12/08/10	115.5	15.2	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround, clayey silty sand.
Set #55	RRM #169	11/08/10	11/22/10	108.0	19.1	Light brown fat clay with fine sand.
	RRM #170	11/08/10	11/22/10	107.3	19.2	Light brown fat clay with fine sand.
	RRM #171	11/08/10	11/22/10	107.2	18.8	Light brown fat clay with fine sand.
N/A	RRM #172	Proctors rejected due to curves.				
	RRM #173					
	RRM #174					
Set #57	RRM #175	11/29/10	12/08/10	119.8	12.7	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #176	11/29/10	12/08/10	119.8	13.1	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #177	11/29/10	12/08/10	119.4	13.4	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
Set #58	RRM #178	12/06/10	12/16/10	116.6	14.3	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand.
	RRM #179	12/06/10	12/16/10	116.8	13.6	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand.
	RRM #180	12/06/10	12/16/10	116.7	13.9	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand.
Set #59	RRM #181	12/13/10	01/07/11	122.5	11.6	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #182	12/13/10	01/07/11	122.0	11.6	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #183	12/13/10	01/07/11	123.6	10.9	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
Set #60	RRM #184	12/17/10	02/03/11	113.9	16.1	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand.
	RRM #185	12/17/10	02/03/11	115.3	15.5	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand.
	RRM #186	12/17/10	02/03/11	116.9	14.6	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand.

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Set	Proctor ID #	Date Sampled	Date Approved	Maximum Dry Density (lb/ft³)	Optimum Moisture Content (%)	Soils Description
Set #61	RRM #187	01/17/11	02/03/11	119.7	11.0	Reddish-brown (2.5YR4/4) fine to medium, well-graded, subround sand.
	RRM #188	01/17/11	02/03/11	120.1	10.9	Reddish-brown (2.5YR4/4) fine to medium, well-graded, subround sand.
	RRM #189	01/17/11	02/03/11	119.7	10.9	Reddish-brown (2.5YR4/4) fine to medium, well-graded, subround sand.
Set #62	RRM #190	01/24/11	02/03/11	117.5	14.4	Reddish-brown (5YR5/3) very fine to medium, well-graded subround sand.
	RRM #191	01/24/11	02/03/11	117.3	14.4	Reddish-brown (5YR5/3) very fine to medium, well-graded subround sand.
	RRM #192	01/24/11	02/03/11	117.2	13.8	Reddish-brown (5YR5/3) very fine to medium, well-graded subround sand.
Set #63	RRM #193	01/31/11	02/11/11	119.1	12.0	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #194	01/31/11	02/11/11	119.3	12.5	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #195	01/31/11	02/11/11	120.6	11.9	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
Set #64	RRM #196	02/07/11	02/17/11	118.6	12.8	Reddish-brown (5YR5/3) very fine to fine, well-graded, subround sand.
	RRM #197	02/07/11	02/17/11	117.2	13.4	Reddish-brown (5YR5/3) very fine to fine, well-graded, subround sand.
	RRM #198	02/07/11	02/17/11	118.1	12.5	Reddish-brown (5YR5/3) very fine to fine, well-graded, subround sand.
Set #65	RRM #199	02/17/11	03/23/11	119.6	11.6	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #200	02/17/11	03/23/11	119.4	12.2	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #201	02/17/11	03/23/11	120.0	11.9	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
N/A	RRM #202	Proctors rejected due to curves.				
	RRM #203					
	RRM #204					
Set #67	RRM #205	03/04/11	03/23/11	121.2	12.2	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #206	03/04/11	03/23/11	120.3	12.5	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #207	03/04/11	03/23/11	119.9	12.2	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
Set #68	RRM #208	03/16/11	04/06/11	121.8	11.7	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #209	03/16/11	04/06/11	123.2	11.5	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #210	03/16/11	04/06/11	123.0	11.2	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
Set #69	RRM #211	03/24/11	04/18/11	122.7	11.9	Reddish-brown (2.5YR4/4) fine to coarse, well-graded, subround sand.
	RRM #212	03/24/11	04/18/11	122.1	11.4	Reddish-brown (2.5YR4/4) fine to coarse, well-graded, subround sand.
	RRM #213	03/24/11	04/18/11	122.2	11.5	Reddish-brown (2.5YR4/4) fine to coarse, well-graded, subround sand.
Set #70	RRM #214	04/25/11	05/27/11	114.3	15.0	Reddish-brown (5YR5/4) fine to medium, moderately graded, subround sand.
	RRM #215	04/25/11	05/27/11	114.9	13.6	Reddish-brown (5YR5/4) fine to medium, well-graded, subround sand.
	RRM #216	04/25/11	05/27/11	114.0	13.7	Reddish-brown (5YR5/4) fine to medium, well-graded, subround sand.
Set #71	RRM #217	05/04/11	05/24/11	118.2	14.1	Brown (7.5YR5/3) very fine to medium, moderately sorted, subround sand with clay.
	RRM #218	05/04/11	05/24/11	117.3	13.6	Brown (7.5YR5/3) very fine to medium, moderately sorted, subround sand with clay.
	RRM #219	05/04/11	05/24/11	117.7	12.8	Brown (7.5YR5/3) very fine to medium, moderately sorted, subround sand with clay.

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Set	Proctor ID #	Date Sampled	Date Approved	Maximum Dry Density (lb/ft^3)	Optimum Moisture Content (%)	Soils Description
Set #72	RRM #220	05/12/11	05/24/11	114.1	15.4	Brown (7.5YR5/3) very fine to medium, moderately sorted, subround sand with clay.
	RRM #221	05/12/11	05/24/11	114.6	15.2	Brown (7.5YR5/3) very fine to medium, moderately sorted, subround sand with clay.
	RRM #222	05/12/11	05/24/11	114.6	14.8	Brown (7.5YR5/3) very fine to medium, moderately sorted, subround sand with clay.
Set #73	RRM #223	05/19/11	06/01/11	118.4	11.8	Reddish-brown (2.5YR4/4) very fine to medium, well-graded, subround sand with clay.
	RRM #224	05/19/11	06/01/11	119.3	11.9	Reddish-brown (2.5YR4/4) very fine to medium, well-graded, subround sand with clay.
	RRM #225	05/19/11	06/01/11	118.9	10.8	Reddish-brown (2.5YR4/4) very fine to medium, well-graded, subround sand with clay.
Set #74	RRM #226	05/25/11	06/10/11	113.1	14.3	Brown (7.5YR5/4) very fine to medium, well sorted, subround sand with clay.
	RRM #227	05/25/11	06/10/11	114.4	15.0	Brown (7.5YR5/4) very fine to medium, well sorted, subround sand with clay.
	RRM #228	05/25/11	06/10/11	113.9	14.4	Brown (7.5YR5/4) very fine to medium, well sorted, subround sand with clay.
Set #75	RRM #229	06/02/11	06/28/11	111.4	17.6	Light brown (7.5YR6/3) very fine to medium, moderately sorted, subround sand with abundant clay.
	RRM #230	06/02/11	06/28/11	112.9	16.0	Light brown (7.5YR6/3) very fine to medium, moderately sorted, subround sand with abundant clay.
	RRM #231	06/02/11	06/28/11	112.6	16.2	Light brown (7.5YR6/3) very fine to medium, moderately sorted, subround sand with abundant clay.
Set #76	RRM #232	06/15/11	07/05/11	113.3	15.7	Light brown (7.5YR6/3) very fine to coarse, well-graded, subround sand with abundant clay.
	RRM #233	06/15/11	07/05/11	113.6	15.3	Light brown (7.5YR6/3) very fine to coarse, well-graded, subround sand with abundant clay.
	RRM #234	06/15/11	07/05/11	114.3	15.0	Light brown (7.5YR6/3) very fine to coarse, well-graded, subround sand with abundant clay.
Set #77	RRM #235	06/23/11	07/20/11	112.9	14.0	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with clay.
	RRM #236	06/23/11	07/20/11	113.5	14.2	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with clay.
	RRM #237	06/23/11	07/20/11	113.6	13.5	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with clay.
Set #78	RRM #238	07/05/11	07/20/11	110.2	14.8	Light brown (7.5YR6/4) very fine to medium, well-graded, subround sand with clay.
	RRM #239	07/05/11	07/20/11	110.3	14.2	Light brown (7.5YR6/4) very fine to medium, well-graded, subround sand with clay.
	RRM #240	07/05/11	07/20/11	110.7	14.1	Light brown (7.5YR6/4) very fine to medium, well-graded, subround sand with clay.
Set #79	RRM #241	07/11/11	07/26/11	115.5	14.2	Light reddish-brown (5YR6/3) very fine to medium, well-graded, subround sand with clay.
	RRM #242	07/11/11	07/26/11	116.0	14.3	Light reddish-brown (5YR6/3) very fine to medium, well-graded, subround sand with clay.
	RRM #243	07/11/11	7-26-11	116.4	14.2	Light reddish-brown (5YR6/3) very fine to medium, well-graded, subround sand with clay.
N/A	RRM #244	Proctors rejected due to curves.				
	RRM #245					
	RRM #246					
Set #81	RRM #247	08/02/11	10/03/11	118.7	13.2	Reddish-brown (5YR 5/4) very fine to medium, well-graded, subround sand with clay.
	RRM #248	08/02/11	10/03/11	119.0	13.0	Reddish-brown (5YR 5/4) very fine to medium, well-graded, subround sand with clay.
	RRM #249	08/02/11	10/03/11	121.6	11.9	Reddish-brown (5YR 5/4) very fine to medium, well-graded, subround sand with clay.
Set #82	RRM #250	08/11/11	10/03/11	116.3	14.6	Brown (7.5YR5/3) very fine to medium, well-graded, subround, sand with clay.
	RRM #251	08/11/11	10/03/11	114.7	14.9	Brown (7.5YR5/3) very fine to medium, well-graded, subround, sand with clay.
	RRM #252	08/11/11	10/03/11	115.8	14.8	Brown (7.5YR5/3) very fine to medium, well-graded, subround, sand with clay.

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Set	Proctor ID #	Date Sampled	Date Approved	Maximum Dry Density (lb/ft^3)	Optimum Moisture Content (%)	Soils Description
Set #83	RRM #253	08/24/11	09/15/11	113.3	16.0	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with abundant clay.
	RRM #254	08/24/11	09/15/11	113.2	14.7	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with abundant clay.
	RRM #255	08/24/11	09/15/11	113.7	15.6	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with abundant clay.
Set #84	RRM #256	09/06/11	10/12/11	112.7	16.4	Brown (7.5YR5/3) very fine to medium, well-graded, subround sand with abundant clay.
	RRM #257	09/06/11	10/12/11	112.7	16.7	Brown (7.5YR5/3) very fine to medium, well-graded, subround sand with abundant clay.
	RRM #258	09/06/11	10/12/11	112.5	16.6	Brown (7.5YR5/3) very fine to medium, well-graded, subround sand with abundant clay.
Set #85	RRM #259	09/15/11	10/11/11	115.2	14.9	Light brown (7.5YR6/3) very fine to medium, well-graded, subround, sand with abundant clay.
	RRM #260	09/15/11	10/11/11	115.4	14.9	Light brown (7.5YR6/3) very fine to medium, well-graded, subround, sand with abundant clay.
	RRM #261	09/15/11	10/11/11	115.2	14.7	Light brown (7.5YR6/3) very fine to medium, well-graded, subround, sand with abundant clay.
Set #86	RRM #262	10/04/11	10/24/11	116.1	14.5	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand with abundant clay.
	RRM #263	10/04/11	10/24/11	116.3	14.7	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand with abundant clay.
	RRM #264	10/04/11	10/24/11	117.9	13.9	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand with abundant clay.
Set #87	RRM #265	10/13/11	11/07/11	120.0	12.8	Reddish-brown (5YR 5/4) very fine to medium, well-graded, subround sand with clay.
	RRM #266	10/13/11	11/07/11	118.8	13.9	Reddish-brown (5YR 5/4) very fine to medium, well-graded, subround sand with clay.
	RRM #267	10/13/11	11/07/11	120.1	12.9	Reddish-brown (5YR 5/4) very fine to medium, well-graded, subround sand with clay.
Set #88	RRM #268	10/27/11	11/28/11	114.6	14.3	Brown (7.5YR5/4) very fine to medium, well-graded subround sand with clay.
	RRM #269	10/27/11	11/28/11	116.6	13.7	Brown (7.5YR5/4) very fine to medium, well-graded subround sand with clay.
	RRM #270	10/27/11	11/28/11	114.7	14.0	Brown (7.5YR5/4) very fine to medium, well-graded subround sand with clay.
Set #89	RRM #271	11/09/11	11/30/11	113.9	14.8	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with abundant clay.
	RRM #272	11/09/11	11/30/11	113.9	15.8	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with abundant clay.
	RRM #273	11/09/11	11/30/11	114.3	15.3	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with abundant clay.
Set #90	RRM #274	11/17/11	12/15/11	116.6	14.5	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand with abundant clay.
	RRM #275	11/17/11	12/15/11	116.7	14.1	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand with abundant clay.
	RRM #276	11/17/11	12/15/11	116.3	14.6	Reddish-brown (5YR5/3) very fine to medium, well-graded, subround sand with abundant clay.
Set #91	RRM #277	12/01/11	12/19/11	113.6	14.8	Brown (7.5YR6/3) very fine medium, well-graded, subround, sand with abundant clay.
	RRM #278	12/01/11	12/19/11	114.1	15.0	Brown (7.5YR6/3) very fine medium, well-graded, subround, sand with abundant clay.
	RRM #279	12/01/11	12/19/11	114.2	14.1	Brown (7.5YR6/3) very fine to medium, well-graded, subround, sand with abundant clay.
Set #92	RRM #280	01/03/12	02/02/12	115.0	14.0	Light brown (7.5YR6/3) very fine to fine, well-graded; subround, sand with clay.
	RRM #281	01/03/12	02/02/12	115.5	13.8	Light brown (7.5YR6/3) very fine to fine, well-graded; subround, sand with clay.
	RRM #282	01/03/12	02/02/12	115.3	13.9	Light brown (7.5YR6/3) very fine to fine, well-graded; subround, sand with clay.

A2. RRM
Standard Proctor Test Results Summary

Set	Proctor ID #	Date Sampled	Date Approved	Maximum Dry Density (lb/ft^3)	Optimum Moisture Content (%)	Soils Description
Set #93	RRM #283	01/18/12	02/02/12	117.5	13.5	Light brown (7.5YR6/3) very fine to medium, well-graded, subround, sand with clay.
	RRM #284	01/18/12	02/02/12	117.4	13.4	Light brown (7.5YR6/3) very fine to medium, well-graded, subround, sand with clay.
	RRM #285	01/18/12	02/02/12	117.0	14.1	Light brown (7.5YR6/3) very fine to medium, well-graded, subround, sand with clay.
Set #94	RRM #286	01/26/12	02/07/12	119.9	12.4	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand with clay.
	RRM #287	01/26/12	02/07/12	121.2	12.0	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand with clay.
	RRM #288	01/26/12	02/07/12	120.9	12.1	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand with clay.
Set #95	RRM #289	02/02/12	02/17/12	114.5	15.8	Pale brown (10YR6/3) very fine to fine, moderately graded, subround sand.
	RRM #290	02/02/12	02/17/12	114.9	15.0	Pale brown (10YR6/3) very fine to fine, moderately graded, subround sand.
	RRM #291	02/02/12	02/17/12	115.1	14.5	Pale brown (10YR6/3) very fine to fine, moderately graded, subround sand.
Set #96	RRM #292	02/13/12	03/22/12	116.0	10.4	Reddish-brown (5YR5/4) very fine to fine, well-graded, subround, sand.
	RRM #293	02/13/12	03/22/12	113.1	12.7	Reddish-brown (5YR5/4) very fine to fine, well-graded, subround, sand.
	RRM #294	02/13/12	03/22/12	115.2	11.7	Reddish-brown (5YR5/4) very fine to fine, well-graded, subround, sand.
Set #97	RRM #295	03/20/12	03/30/12	115.0	15.0	Light brown (7.5YR6/3) very fine to fine, moderately graded, subround sand with abundant clay.
	RRM #296	03/20/12	03/30/12	115.1	15.1	Light brown (7.5YR6/3) very fine to fine, moderately graded, subround sand with abundant clay.
	RRM #297	03/20/12	03/30/12	115.1	15.4	Light brown (7.5YR6/3) very fine to fine, moderately graded, subround sand with abundant clay.
Set #98	RRM #298	03/14/12	03/30/12	113.0	16.1	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with clay.
	RRM #299	03/14/12	03/30/12	112.7	15.6	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with clay.
	RRM #300	03/14/12	03/30/12	112.4	15.7	Light brown (7.5YR6/3) very fine to medium, well-graded, subround sand with clay.
Set #99	RRM #301	03/22/12	05/15/12	113.6	14.0	Light brown (7.5YR6/3) very fine to fine, moderately graded, subround sand with clay.
	RRM #302	03/22/12	05/15/12	116.5	13.5	Light brown (7.5YR6/3) very fine to fine, moderately graded, subround sand with clay.
	RRM #303	03/22/12	05/15/12	112.1	14.1	Light brown (7.5YR6/3) very fine to fine, moderately graded, subround sand with clay.
Set #100	RRM #304	04/05/12	05/15/12	110.8	17.1	Light reddish-brown (5YR6/3) very fine to fine, well-graded, poorly round sand with silt.
	RRM #305	04/05/12	05/15/12	111.3	16.7	Light reddish-brown (5YR6/3) very fine to fine, well-graded, poorly round sand with silt.
	RRM #306	04/05/12	05/15/12	111.5	16.1	Light reddish-brown (5YR6/3) very fine to fine, well-graded, poorly round sand with silt.
Set #101	RRM #307	04/19/12	05/15/12	107.2	18.2	Brown (7.5YR5/3) very fine to fine, poorly-graded, subround sand with clay.
	RRM #308	04/19/12	05/15/12	107.0	18.5	Brown (7.5YR5/3) very fine to fine, poorly-graded, subround sand with clay.
	RRM #309	04/19/12	05/15/12	108.1	18.0	Brown (7.5YR5/3) very fine to fine, poorly-graded, subround sand with clay.
Set #102	RRM #310	05/03/12	05/31/12	116.1	12.3	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #311	05/03/12	05/31/12	116.0	10.7	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.
	RRM #312	05/03/12	05/31/12	115.6	12.3	Reddish-brown (5YR5/4) very fine to medium, well-graded, subround sand.

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A2. RRM
Lift Approval Summary

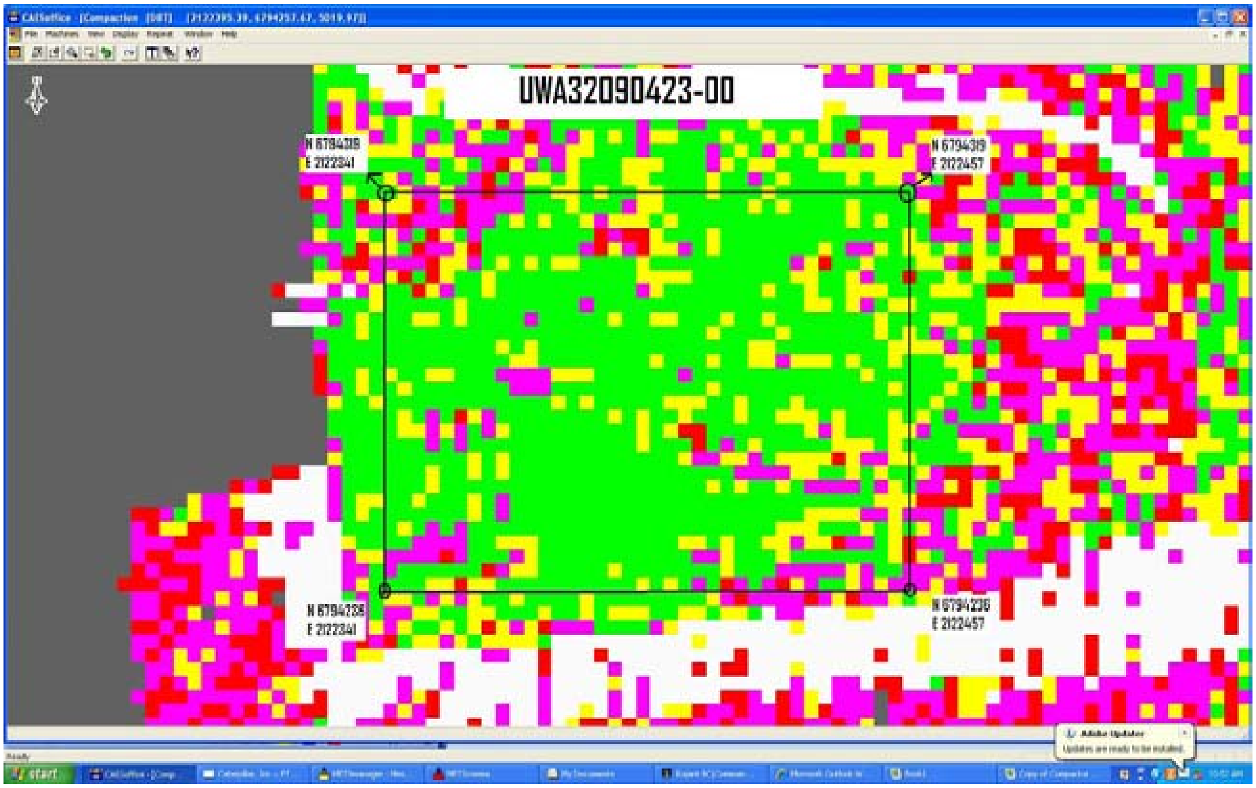
April 2009											
Date	**Lift ID #**	**# of Passing Moisture Tests**	**Quantity Approved** (yd^3)	**Cumulative Quantity Approved** (yd^3)	**CAES Screen Passing Pixels** (%)	**Average Thickness** (ft)	**Proctor ID #**	**# of Nuclear Density Gauge Verifications**	**# of Sandcone Verifications**	**Verified Compaction** (%)	**Notes**
04/23/09	UWA32090423-00	5	205	205	70.9	0.6	3	5	1	93.1	
04/27/09	UWA32090427-00	1	263	468	N/A	0.8	3	5	0	91.4	1
04/27/09	UWA32090427-01	2	164	632	N/A	0.5	3	2	0	92.9	1
04/28/09	UWA32090428-00	2	61	693	N/A	0.3	3	2	0	93.1	1
04/28/09	UWA32090428-01	2	198	891	N/A	0.7	3	2	0	92.1	1
04/28/09	UWA32090428-02	2	198	1,089	N/A	0.7	3	3	0	94.0	1
04/28/09	UWA32090428-03	2	235	1,324	N/A	0.8	3	2	0	94.8	1
04/28/09	UWG32090428-00	1	11	1,335	N/A	0.1	3	1	0	95.3	1
04/28/09	UWG32090428-01	1	72	1,407	N/A	0.5	3	1	1	94.9	1
04/28/09	UWG32090428-02	1	97	1,504	N/A	0.7	3	1	0	92.7	1
04/28/09	UWG32090428-04	1	64	1,568	N/A	0.5	3	1	0	93.4	1
04/28/09	UWG32090428-03	1	89	1,657	N/A	0.7	3	1	0	90.6	1
04/29/09	UWG32090429-00	1	51	1,708	N/A	0.4	3	2	0	90.3	1
04/29/09	UWG32090429-01	1	95	1,803	89.7	0.8	3	1	0	90.1	
04/29/09	UWA32090429-00	1	89	1,892	N/A	0.4	3	2	0	93.3	1,2
04/30/09	UWG32090430-00	1	89	1,981	79.6	0.8	3	1	0	91.8	
04/30/09	UWA32090430-00	1	200	2,181	80.0	0.9	3	1	1	94.3	
04/30/09	UWG32090430-01	1	54	2,235	78.3	0.5	3	1	0	90.0	
04/30/09	UWA32090430-01	1	133	2,368	85.0	0.6	3	2	0	90.3	2
04/30/09	UWG32090430-02	1	86	2,454	81.4	0.8	3	1	0	90.5	
04/30/09	UWA32090430-02	1	200	2,654	80.4	0.9	3	1	0	93.1	

Average CAES Screen Passing Pixels (%) = 80.7
Total Quantity Approved (yd^3) = 2,654
Total # of Nuclear Density Gauge Tests = 38
Total # of Moisture Tests = 30
Quantity per Moisture Test (yd^3) = 88
Total Average Thickness (ft) = 0.6

1. Lift was approved using a nuclear density gauge and the Trimble survey system, due to the fact that the CAES system was down.
2. Two nuclear density gauge tests were performed, due to the fact that the first one produced unsatisfactory results. The lift was reworked and recompacted producing satisfactory results.

A2. RRM
Lift Approval Summary

CAES compaction screen example from April 2009. There are compaction screens 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.



A2. RRM
Lift Approval Summary

May 2009											
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 (%)	Notes
05/01/09	UWA32090501-00	3	200	200	83.1	1	3	1	0	92.0	
05/01/09	UWG32090501-00	1	74	274	90.8	1	3	1	0	91.4	
05/05/09	UWA32090505-00	0	222	496	75.0	1	N/A	0	0	N/A	
05/05/09	UWA32090505-01	0	89	585	86.3	0	N/A	0	0	N/A	
05/05/09	UWA32090505-02	0	70	655	84.5	0	N/A	0	0	N/A	
05/05/09	UWA32090505-03	0	196	851	77.5	1	N/A	0	0	N/A	
05/05/09	UWG32090505-00	0	150	1,001	92.3	1	3	0	0	N/A	
05/05/09	UWG32090505-01	0	68	1,069	76.0	0	N/A	0	0	N/A	
05/05/09	UWG32090505-02	0	118	1,187	92.5	1	N/A	0	0	N/A	
05/05/09	UWA32090505-04	0	151	1,338	89.2	1	N/A	0	0	N/A	
05/05/09	UWG32090505-03	0	84	1,422	87.6	1	N/A	0	0	N/A	
05/06/09	UWA32090506-00	0	251	1,673	93.8	1	N/A	0	0	N/A	
05/06/09	UWA32090506-01	0	148	1,821	95.1	1	N/A	0	0	N/A	
05/06/09	UWG32090506-00	0	116	1,937	78.5	1	N/A	0	0	N/A	
05/06/09	UWG32090506-01	1	163	2,100	87.3	1	3	0	0	N/A	
05/06/09	UWG32090506-02	0	122	2,222	93.2	1	N/A	0	0	N/A	
05/06/09	UWA32090506-02	0	179	2,401	74.7	1	N/A	0	0	N/A	
05/06/09	UWG32090506-03	0	126	2,527	87.1	1	N/A	0	0	N/A	
05/07/09	UWA32090507-00	1	152	2,679	79.7	1	3	1	1	92.1	
05/07/09	UWG32090507-00	1	137	2,816	89.0	1	3	1	0	91.5	
05/07/09	UWA32090507-01	0	68	2,884	82.4	0	N/A	0	0	N/A	
05/07/09	UWG32090507-01	0	114	2,998	87.6	1	N/A	0	0	N/A	
05/08/09	UWA32090508-00	0	84	3,082	67.6	1	N/A	0	0	N/A	
05/08/09	UWA32090508-01	0	117	3,199	76.3	1	N/A	0	0	N/A	
05/08/09	UWG32090508-00	0	68	3,267	72.1	0	N/A	0	0	N/A	
05/08/09	UWA32090508-02	0	46	3,313	78.0	1	N/A	0	0	N/A	
05/08/09	UWG32090508-01	0	89	3,402	73.7	0	N/A	0	0	N/A	
05/11/09	UWA32090511-00	1	45	3,447	77.7	1	3	0	0	N/A	
05/11/09	UWA32090511-01	0	53	3,500	71.2	1	N/A	0	0	N/A	
05/11/09	UWA32090511-02	0	36	3,536	71.2	0	N/A	0	0	N/A	
05/11/09	UWG32090511-00	0	100	3,636	86.3	1	N/A	0	0	N/A	
05/11/09	UWG32090511-01	0	60	3,696	90.5	1	N/A	0	0	N/A	
05/11/09	UWG32090511-02	0	58	3,754	78.2	1	N/A	0	0	N/A	
05/11/09	UWA32090511-03	0	37	3,791	80.5	0	N/A	0	0	N/A	
05/11/09	UWG32090511-03	0	70	3,861	80.3	1	N/A	0	0	N/A	
05/11/09	UWG32090511-04	0	70	3,931	78.1	1	N/A	0	0	N/A	
05/11/09	UWG32090511-05	0	58	3,989	94.0	1	N/A	0	0	N/A	
05/11/09	UWG32090511-06	0	78	4,067	81.0	1	N/A	0	0	N/A	
05/12/09	UWA32090512-00	0	63	4,130	87.4	1	N/A	0	0	N/A	
05/12/09	UWA32090512-01	1	44	4,174	71.1	0	3	0	0	N/A	
05/12/09	UWG32090512-00	0	80	4,254	77.3	0	N/A	0	0	N/A	
05/12/09	UWA32090512-02	0	171	4,425	79.5	1	N/A	0	0	N/A	
05/12/09	UWG32090512-01	0	61	4,486	84.2	0	N/A	0	0	N/A	
05/13/09	UWG32090513-00	0	108	4,594	77.7	1	N/A	0	0	N/A	
05/13/09	UWG32090513-01	0	92	4,686	88.5	0	N/A	0	0	N/A	
05/13/09	UWG32090513-02	1	116	4,802	89.8	1	3	0	1	97.5	
05/13/09	UWA32090513-00	1	153	4,955	80.3	1	3	0	1	98.4	
05/14/09	UWA32090514-00	0	130	5,085	85.5	1	N/A	0	0	N/A	
05/14/09	UWA32090514-01	0	243	5,328	73.5	1	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd³)	Cumulative Quantity Approved (yd³)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
05/14/09	UWD22090514-00	1	625	5,953	N/A	1	3	0	1	94.9	3
05/14/09	UWD22090514-01	1	738	6,691	N/A	1	3	0	1	93.9	3
05/15/09	UWD22090515-00	1	241	6,932	N/A	0	3	0	1	94.3	3
05/15/09	UWA32090515-00	1	250	7,182	N/A	1	N/A	0	1	91.5	3
05/15/09	UWA32090515-01	1	194	7,376	N/A	1	3	1	0	97.4	2
05/15/09	UWG32090515-00	1	222	7,598	N/A	1	3	0	1	95.1	3
05/15/09	UWG32090515-01	1	175	7,773	N/A	1	3	1	1	94.5	1,3
05/15/09	UWD22090515-01	1	1,132	8,905	N/A	1	3	1	0	91.4	2
05/15/09	UWD22090515-02	1	849	9,754	N/A	1	3	1	0	95.5	2
05/15/09	UWD22090515-03	1	595	10,349	N/A	1	3	1	0	97.1	2
05/15/09	UWD22090515-04	1	666	11,015	N/A	1	3	1	0	91.2	2
05/15/09	UWD22090515-05	1	629	11,644	N/A	1	3	1	0	93.8	2
05/18/09	UWG32090518-00	1	171	11,815	N/A	1	3	1	0	90.9	2
05/18/09	UWG32090518-01	1	135	11,950	N/A	1	3	1	0	90.0	2
05/18/09	UWG32090518-02	1	135	12,085	N/A	1	3	1	0	91.0	2
05/18/09	UWA32090518-00	1	197	12,282	N/A	1	3	1	1	95.2	3
05/18/09	UWA32090518-01	1	194	12,476	N/A	1	3	1	0	92.4	2
05/18/09	UWA32090518-02	1	161	12,637	N/A	1	3	1	0	90.8	2
05/18/09	UWA32090518-03	1	161	12,798	N/A	1	3	1	0	90.6	2
05/18/09	UWD22090518-00	1	535	13,333	N/A	1	3	1	0	92.1	2
05/18/09	UWD22090518-01	1	841	14,174	N/A	1	3	1	0	91.9	2
05/19/09	UWG32090519-00	1	126	14,300	N/A	1	3	1	0	96.4	2
05/19/09	UWG32090519-01	1	120	14,420	N/A	1	3	1	0	92.3	2
05/19/09	UWG32090519-02	1	120	14,540	N/A	1	3	1	0	91.2	2
05/19/09	UWA32090519-00	1	131	14,671	N/A	1	3	1	1	97.1	3
05/19/09	UWA32090519-01	1	129	14,800	N/A	1	3	1	0	93.2	2
05/19/09	UWA32090519-02	1	104	14,904	N/A	0	3	1	0	92.8	2
05/19/09	UWD22090519-00	1	805	15,709	N/A	1	N/A	1	0	91.6	2
05/19/09	UWD22090519-01	1	447	16,156	N/A	1	3	1	0	94.1	2
05/19/09	UWD22090519-02	1	338	16,494	N/A	1	3	1	0	94.5	2
05/20/09	UWG32090520-00	1	159	16,653	N/A	1	3	1	0	92.8	2
05/20/09	UWG32090520-01	1	141	16,794	N/A	1	3	1	0	90.1	2
05/20/09	UWG32090520-02	2	97	16,891	N/A	1	3	2	0	94.9	1
05/20/09	UWA32090520-00	1	179	17,070	N/A	1	3	1	0	93.0	2
05/20/09	UWA32090520-01	1	154	17,224	N/A	1	3	1	0	91.1	2
05/20/09	UWA32090520-02	1	181	17,405	N/A	1	7	1	0	91.3	2
05/20/09	UWD22090520-00	1	549	17,954	N/A	1	3	1	0	91.6	2
05/21/09	UWA32090521-01	1	180	18,134	N/A	1	7	1	0	91.4	2
05/21/09	UWA32090521-00	1	209	18,343	N/A	1	3	1	0	91.9	2
05/21/09	UWA32090521-02	1	181	18,524	N/A	1	3	1	0	93.9	2
05/21/09	UWA32090521-03	1	169	18,693	N/A	1	7	1	0	92.0	2
05/21/09	UWG32090521-00	1	155	18,848	N/A	1	3	1	0	90.1	2
05/21/09	UWG32090521-01	1	132	18,980	N/A	1	3	1	0	91.4	2
05/21/09	UWG32090521-02	1	147	19,127	N/A	1	3	1	0	93.8	2
05/21/09	UWG32090521-03	1	124	19,251	N/A	1	7	1	1	93.5	2
05/26/09	UWG32090526-00	1	119	19,370	N/A	1	7	1	0	95.6	2
05/26/09	UWG32090526-01	0	143	19,513	N/A	1	7	1	0	91.7	2
05/26/09	UWG32090526-02	0	167	19,680	N/A	1	7	1	0	93.6	2
05/27/09	UWA32090527-00	1	179	19,859	N/A	1	3	1	0	91.4	2
05/27/09	UWA32090527-01	0	269	20,128	N/A	1	3	1	0	91.4	2

A2. RRM
Lift Approval Summary

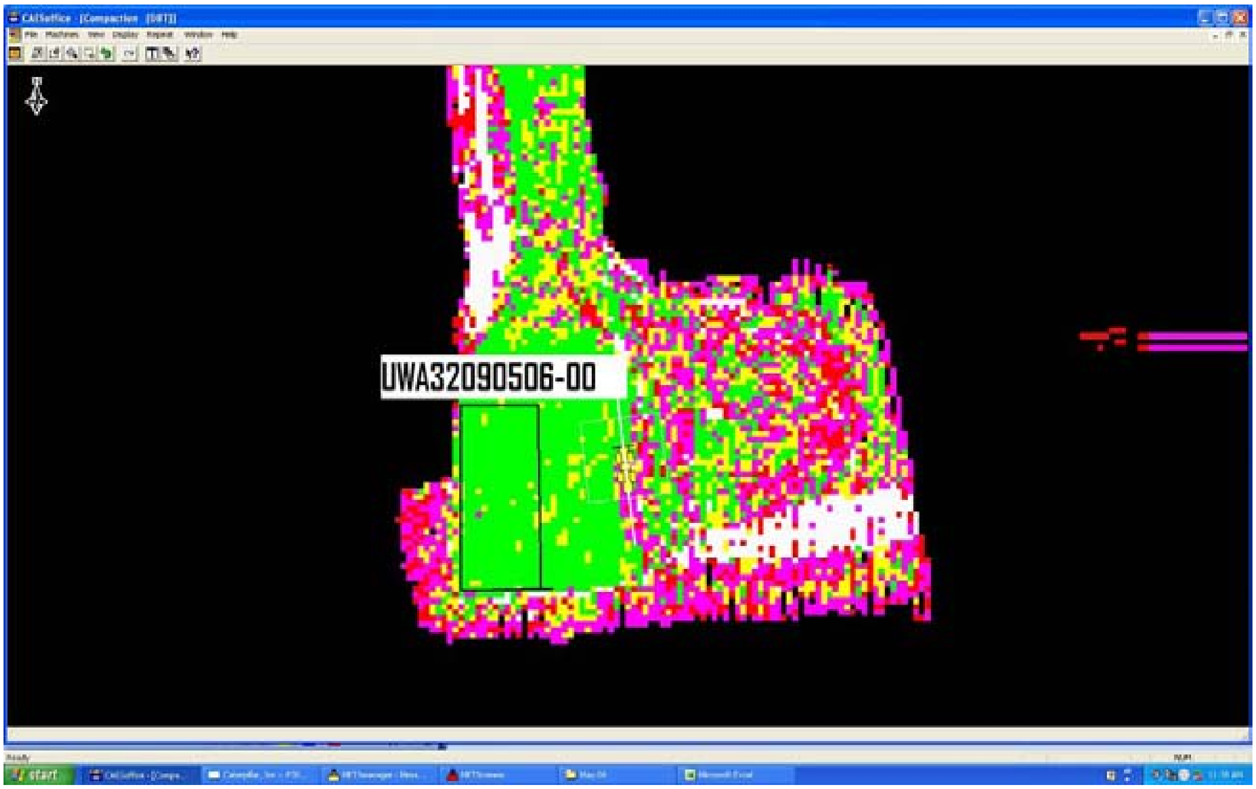
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
05/27/09	UWA32090527-02	0	239	20,367	N/A	1	7	1	0	90.5	2
05/27/09	UWG32090527-00	1	169	20,536	N/A	1	7	1	0	93.9	2
05/27/09	UWG32090527-01	1	225	20,761	N/A	1	3	1	0	91.2	2
05/27/09	UWG32090527-02	1	197	20,958	N/A	1	7	1	0	92.9	2
05/27/09	UWG32090527-03	0	113	21,071	N/A	0	7	1	0	93.7	2
05/28/09	UWA32090528-00	1	243	21,314	N/A	1	3	1	0	91.6	2
05/28/09	UWA32090528-01	1	277	21,591	N/A	1	3	1	0	90.1	2
05/28/09	UWA32090528-02	1	277	21,868	N/A	1	3	1	0	92.8	2
05/28/09	UWA32090528-03	1	243	22,111	N/A	1	3	1	0	91.1	2
05/28/09	UWA32090528-04	1	243	22,354	N/A	1	3	1	0	93.6	2
05/28/09	UWG32090528-00	1	136	22,490	N/A	1	3	1	0	93.6	2
05/28/09	UWG32090528-01	1	202	22,692	N/A	1	3	1	0	92.3	2
05/28/09	UWG32090528-02	1	231	22,923	N/A	1	3	1	1	91.2	3
05/28/09	UWG32090528-03	1	231	23,154	N/A	1	3	1	0	90.8	2
05/28/09	UWG32090528-04	1	231	23,385	N/A	1	3	1	0	95.4	2

Average CAES Screen Passing Pixels (%) = 82.34
Total Quantity Approved (yd^3) = 23,385
Total # of Nuclear Density Gauge Tests = 65
Total # of Moisture Tests = 72
Quantity per Moisture Test (yd^3) = 325
Total Average Thickness (ft) = 0.65

1. Two nuclear density gauge tests were performed, due to the fact that the first one produced unsatisfactory results. The lift was reworked and recompacted producing satisfactory results.
2. Lift was approved using a nuclear density gauge and the Trimble survey system, due to the fact that the CAES system was down.
3. Lift was approved using the sand cone method and the Trimble survey system, due to the fact that the CAES system was down.

A2. RRM
Lift Approval Summary

CAES compaction screen example from May 2009. There are compaction screens 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.



A2. RRM
Lift Approval Summary

June 2009											
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 (%)	Notes
06/01/09	UWA32090601-00	1	145	145	N/A	0.7	3	1	0	96.8	1
06/01/09	UWA32090601-01	1	145	290	N/A	0.7	3	1	0	93.5	1
06/01/09	UWA32090601-02	1	145	435	N/A	0.7	3	1	0	90.5	1
06/01/09	UWG32090601-00	1	119	554	N/A	0.4	3	1	0	91.3	1
06/01/09	UWG32090601-01	1	237	791	N/A	0.8	3	1	0	90.3	1
06/01/09	UWG32090601-02	1	119	910	N/A	0.4	3	1	0	92.7	1
06/01/09	UWG32090601-03	1	208	1,118	N/A	0.7	3	1	0	90.1	1
06/02/09	UWG32090602-00	1	208	1,326	N/A	0.7	3	1	0	92.3	1
06/02/09	UWG32090602-01	1	133	1,459	N/A	0.5	3	1	0	91.8	1
06/02/09	UWG32090602-02	1	186	1,645	N/A	0.7	3	1	0	92.7	1
06/02/09	UWA32090602-00	1	145	1,790	N/A	0.7	3	1	0	91.6	1
06/02/09	UWA32090602-01	1	142	1,932	N/A	0.8	3	1	0	93.5	1
06/02/09	UWA32090602-02	1	160	2,092	N/A	0.9	3	1	0	90.9	1
06/03/09	UWA32090603-00	1	121	2,213	N/A	0.6	3	1	0	90.6	1
06/03/09	UWA32090603-01	1	89	2,302	N/A	0.5	7	1	0	91.2	1
06/03/09	UWA32090603-02	1	106	2,408	96.0	0.6	7	1	0	94.9	
06/03/09	UWA32090603-03	1	106	2,514	95.8	0.6	3	1	1	93.4	
06/03/09	UWG32090603-00	1	105	2,619	N/A	0.4	3	1	0	90.4	1
06/03/09	UWG32090603-01	1	157	2,776	N/A	0.6	3	1	0	91.2	1
06/03/09	UWG32090603-02	1	54	2,830	N/A	0.2	7	1	0	92.5	1
06/03/09	UWG32090603-03	1	108	2,938	80.9	0.4	7	1	0	91.5	
06/04/09	UWG32090604-00	1	95	3,033	73.9	0.4	7	1	0	91.5	
06/04/09	UWD22090604-00	1	194	3,227	97.3	0.7	7	1	0	95.2	
06/04/09	UWD22090604-01	0	117	3,344	94.6	0.7	N/A	0	0	N/A	
06/04/09	UWD22090604-02	0	117	3,461	90.4	0.7	N/A	0	0	N/A	
06/04/09	UWA32090604-00	1	123	3,584	98.2	0.5	7	1	0	90.1	
06/04/09	UWA32090604-01	1	123	3,707	89.4	0.5	7	1	0	91.8	
06/08/09	UWA32090608-00	0	298	4,005	96.5	0.5	N/A	0	0	N/A	
06/08/09	UWD22090608-00	0	101	4,106	86.9	0.6	N/A	0	0	N/A	
06/08/09	UWD22090608-01	0	151	4,257	76.2	0.9	N/A	0	0	N/A	
06/08/09	UWI35090608-00	0	405	4,662	94.6	0.9	N/A	0	0	N/A	
06/08/09	UWI35090608-01	1	360	5,022	95.5	0.8	3	0	0	N/A	
06/08/09	UWI35090608-02	0	270	5,292	84.0	0.6	N/A	0	0	N/A	
06/09/09	UWA32090609-01	0	358	5,650	89.1	0.6	N/A	0	0	N/A	
06/09/09	UWD22090609-00	1	151	5,800	95.3	0.9	3	0	0	N/A	
06/09/09	UWA32090609-00	0	179	5,979	78.3	0.3	N/A	0	0	N/A	
06/09/09	UWD22090609-01	0	34	6,013	78.2	0.2	N/A	0	0	N/A	
06/09/09	UWD22090609-02	0	117	6,130	87.7	0.7	N/A	0	0	N/A	
06/09/09	UWI35090609-00	0	270	6,400	98.0	0.6	N/A	0	0	N/A	
06/09/09	UWI35090609-01	0	90	6,490	97.6	0.2	N/A	0	0	N/A	
06/09/09	UWI35090609-02	0	180	6,670	87.5	0.4	N/A	0	0	N/A	
06/09/09	UWI35090609-03	0	135	6,805	93.5	0.3	N/A	0	0	N/A	
06/10/09	UWA32090610-00	0	301	7,106	80.1	0.6	N/A	0	0	N/A	
06/10/09	UWA32090610-01	0	351	7,457	90.5	0.7	N/A	0	0	N/A	
06/10/09	UWD22090610-00	1	139	7,596	74.1	1	3	0	0	N/A	
06/10/09	UWD22090610-01	0	83	7,679	74.1	0.6	N/A	0	0	N/A	
06/10/09	UWI35090610-00	0	160	7,839	99.4	0.3	N/A	0	0	N/A	
06/10/09	UWI35090610-01	0	213	8,053	97.8	0.4	N/A	0	0	N/A	
06/11/09	UWA32090611-00	0	201	8,253	86.5	0.4	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
06/11/09	UWA32090611-01	1	351	8,605	81.4	0.7	3	0	0	N/A	
06/11/09	UWI35090611-00	1	533	9,138	96.5	1	3	0	0	N/A	
06/11/09	UWI35090611-01	0	267	9,405	96.2	0.5	N/A	0	0	N/A	
06/11/09	UWI35090611-02	0	533	9,938	90.9	1	N/A	0	0	N/A	
06/15/09	UWI35090615-01	1	320	10,258	93.9	0.6	3	0	0	N/A	
06/15/09	UWA32090615-01	0	301	10,559	89.7	0.6	N/A	0	0	N/A	
06/15/09	UWI35090615-00	1	533	11,092	95.2	1	3	0	0	N/A	
06/15/09	UWA32090615-00	0	351	11,443	86.7	0.7	N/A	0	0	N/A	
06/16/09	UWD22090616-00	1	87	11,530	70.9	1	7	1	0	91.3	
06/16/09	UWI35090616-00	1	213	11,743	89.1	0.4	7	0	0	N/A	
06/16/09	UWA32090616-00	0	271	12,014	88.6	0.6	N/A	0	0	N/A	
06/16/09	UWA32090616-01	0	226	12,240	87.1	0.5	N/A	0	0	N/A	
06/16/09	UWI35090616-01	1	267	12,506	91.7	0.5	7	0	0	N/A	
06/16/09	UWA32090616-02	0	226	12,732	89.6	0.5	N/A	0	0	N/A	
06/17/09	UWA32090617-00	1	226	12,958	89.3	0.5	7	0	0	N/A	
06/17/09	UWA32090617-01	0	226	13,183	88.8	0.5	N/A	0	0	N/A	
06/17/09	UWA32090617-02	1	226	13,409	89.3	0.5	7	1	1	95.6	
06/17/09	UWF29090617-01	0	15	13,424	83.8	0.5	N/A	0	0	N/A	
06/17/09	UWF29090617-02	0	15	13,439	87.5	0.5	N/A	0	0	N/A	
06/17/09	UWF29090617-03	0	15	13,454	92.5	0.5	N/A	0	0	N/A	
06/17/09	UWF29090617-04	0	21	13,475	93.8	0.7	N/A	0	0	N/A	
06/17/09	UWF29090617-05	0	24	13,499	96.3	0.8	N/A	0	0	N/A	
06/17/09	UWI35090617-01	0	97	13,596	89.2	0.4	N/A	0	0	N/A	
06/17/09	UWI35090617-00	0	97	13,692	83.8	0.4	N/A	0	0	N/A	
06/17/09	UWF29060917-00	0	-30	13,662	82.5	-1	N/A	0	0	N/A	
06/17/09	UWI35090617-02	1	97	13,759	89.1	0.4	3	1	0	93.1	
06/18/09	UWI35090618-00	1	97	13,855	82.2	0.4	7	0	0	N/A	
06/18/09	UWI35090618-01	0	97	13,952	78.4	0.4	N/A	0	0	N/A	
06/18/09	UWI35090618-02	1	97	14,049	80.3	0.4	7	0	0	N/A	
06/18/09	UWA32090618-00	0	262	14,310	89.1	0.5	N/A	0	0	N/A	
06/18/09	UWA32090618-01	0	314	14,624	85.4	0.6	N/A	0	0	N/A	
06/18/09	UWA32090618-02	0	314	14,938	74.9	0.6	N/A	0	0	N/A	
06/19/09	UWH33090619-00	0	167	15,106	86.4	0.4	N/A	0	0	N/A	
06/19/09	UWH33090619-01	1	167	15,273	86.1	0.4	7	0	0	N/A	
06/19/09	UWH33090619-02	0	209	15,482	83.5	0.5	N/A	0	0	N/A	
06/19/09	UWH33090619-02	0	209	15,482	83.5	0.5	N/A	0	0	N/A	
06/19/09	UWH33090619-03	1	126	15,608	72.7	0.3	7	0	0	N/A	
06/19/09	UWH33090619-04	0	126	15,733	71.0	0.3	N/A	0	0	N/A	
06/19/09	UWI35090619-00	0	145	15,878	89.6	0.6	N/A	0	0	N/A	
06/19/09	UWI35090619-01	0	145	16,023	87.6	0.6	N/A	0	0	N/A	
06/19/09	UWI35090619-02	0	121	16,144	89.2	0.5	N/A	0	0	N/A	
06/19/09	UWI35090619-03	0	121	16,265	71.8	0.5	N/A	0	0	N/A	
06/19/09	UWI35090619-04	0	121	16,385	76.3	0.5	N/A	0	0	N/A	
06/22/09	UWH33090622-00	0	167	16,553	72.2	0.4	N/A	0	0	N/A	
06/22/09	UWH33090622-01	0	209	16,762	71.1	0.5	N/A	0	0	N/A	
06/22/09	UWH33090622-02	0	209	16,971	75.6	0.5	N/A	0	0	N/A	
06/22/09	UWH33090622-03	0	126	17,097	83.2	0.3	N/A	0	0	N/A	
06/22/09	UWH33090622-04	0	126	17,223	75.0	0.3	N/A	0	0	N/A	
06/22/09	UWI35090622-00	1	140	17,363	80.8	0.5	3	0	0	N/A	
06/22/09	UWI35090622-01	0	140	17,503	83.6	0.5	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
06/22/09	UWI35090622-02	0	112	17,616	81.4	0.4	N/A	0	0	N/A	
06/22/09	UWI35090622-03	0	84	17,700	85.3	0.3	N/A	0	0	N/A	
06/23/09	UWH33090623-00	0	126	17,826	81.9	0.3	N/A	0	0	N/A	
06/23/09	UWH33090623-01	1	84	17,909	81.2	0.2	7	0	0	N/A	
06/23/09	UWH33090623-02	0	126	18,035	83.6	0.3	N/A	0	0	N/A	
06/23/09	UWH33090623-03	0	42	18,077	82.9	0.1	N/A	0	0	N/A	
06/23/09	UWH33090623-04	0	167	18,244	80.8	0.4	N/A	0	0	N/A	
06/23/09	UWI35090623-00	0	98	18,342	81.5	0.3	N/A	0	0	N/A	
06/23/09	UWI35090623-01	0	131	18,473	83.6	0.4	N/A	0	0	N/A	
06/23/09	UWI35090623-02	0	98	18,571	76.8	0.3	N/A	0	0	N/A	
06/23/09	UWI35090623-03	0	98	18,670	84.6	0.3	N/A	0	0	N/A	
06/23/09	UWI35090623-04	0	65	18,735	87.8	0.2	N/A	0	0	N/A	
06/24/09	UWH33090624-00	1	74	18,809	76.7	0.3	3	0	0	N/A	
06/24/09	UWH33090624-01	0	74	18,883	84.6	0.3	N/A	0	0	N/A	
06/24/09	UWH33090624-02	0	74	18,957	86.7	0.3	N/A	0	0	N/A	
06/24/09	UWH33090624-03	0	148	19,106	84.9	0.6	N/A	0	0	N/A	
06/24/09	UWH33090624-04	0	99	19,204	76.8	0.4	N/A	0	0	N/A	
06/24/09	UWI35090624-00	0	61	19,265	81.8	0.3	N/A	0	0	N/A	
06/24/09	UWI35090624-01	0	61	19,326	89.9	0.3	N/A	0	0	N/A	
06/24/09	UWI35090624-02	0	61	19,387	87.5	0.3	N/A	0	0	N/A	
06/24/09	UWI35090624-03	0	122	19,509	90.1	0.6	N/A	0	0	N/A	
06/24/09	UWI35090624-04	0	122	19,630	87.2	0.6	N/A	0	0	N/A	
06/25/09	UWF31090625-00	0	14	19,644	86.2	0.1	N/A	0	0	N/A	
06/25/09	UWF31090625-01	0	85	19,730	81.8	0.6	N/A	0	0	N/A	
06/25/09	UWH33090625-00	1	157	19,887	86.9	0.6	3	0	0	N/A	
06/25/09	UWH33090625-01	0	131	20,019	85.4	0.5	N/A	0	0	N/A	
06/25/09	UWH33090625-02	0	184	20,202	82.2	0.7	N/A	0	0	N/A	
06/25/09	UWI35090625-00	0	122	20,324	90.1	0.6	N/A	0	0	N/A	
06/25/09	UWI35090625-01	0	142	20,466	84.8	0.7	N/A	0	0	N/A	
06/25/09	UWI35090625-02	0	122	20,588	84.9	0.6	N/A	0	0	N/A	
06/25/09	UWI35090625-03	0	122	20,709	83.7	0.6	N/A	0	0	N/A	
06/26/09	UWH33090626-00	0	97	20,807	78.1	0.4	N/A	0	0	N/A	
06/26/09	UWI35090626-01	1	86	20,893	83.7	0.5	3	1	0	91.1	
06/26/09	UWH33090626-01	0	97	20,990	86.4	0.4	N/A	0	0	N/A	
06/26/09	UWH33090626-02	1	73	21,063	84.6	0.3	3	1	0	91.5	
06/26/09	UWH33090626-03	0	97	21,160	82.5	0.4	N/A	0	0	N/A	
06/26/09	UWI35090626-00	0	86	21,246	91.5	0.5	N/A	0	0	N/A	
06/26/09	UWI35090626-02	0	103	21,350	91.0	0.6	N/A	0	0	N/A	
06/26/09	UWI35090626-03	0	86	21,436	85.6	0.5	N/A	0	0	N/A	
06/29/09	UWH33090629-00	0	152	21,588	70.2	0.6	N/A	0	0	N/A	
06/29/09	UWH33090629-01	0	101	21,690	70.0	0.4	N/A	0	0	N/A	
06/29/09	UWI35090629-00	1	85	21,774	87.7	0.5	7	0	0	N/A	
06/30/09	UWH33090630-00	0	101	21,876	81.4	0.4	N/A	0	0	N/A	
06/30/09	UWH33090630-01	0	51	21,927	71.7	0.2	N/A	0	0	N/A	
06/30/09	UWH33090630-03	0	203	22,129	75.8	0.8	N/A	0	0	N/A	
06/30/09	UWI35090630-00	1	119	22,248	79.8	0.7	7	0	0	N/A	
06/30/09	UWI35090630-01	0	51	22,299	78.8	0.3	N/A	0	0	N/A	
06/30/09	UWI35090630-02	0	34	22,333	80.7	0.2	N/A	0	0	N/A	

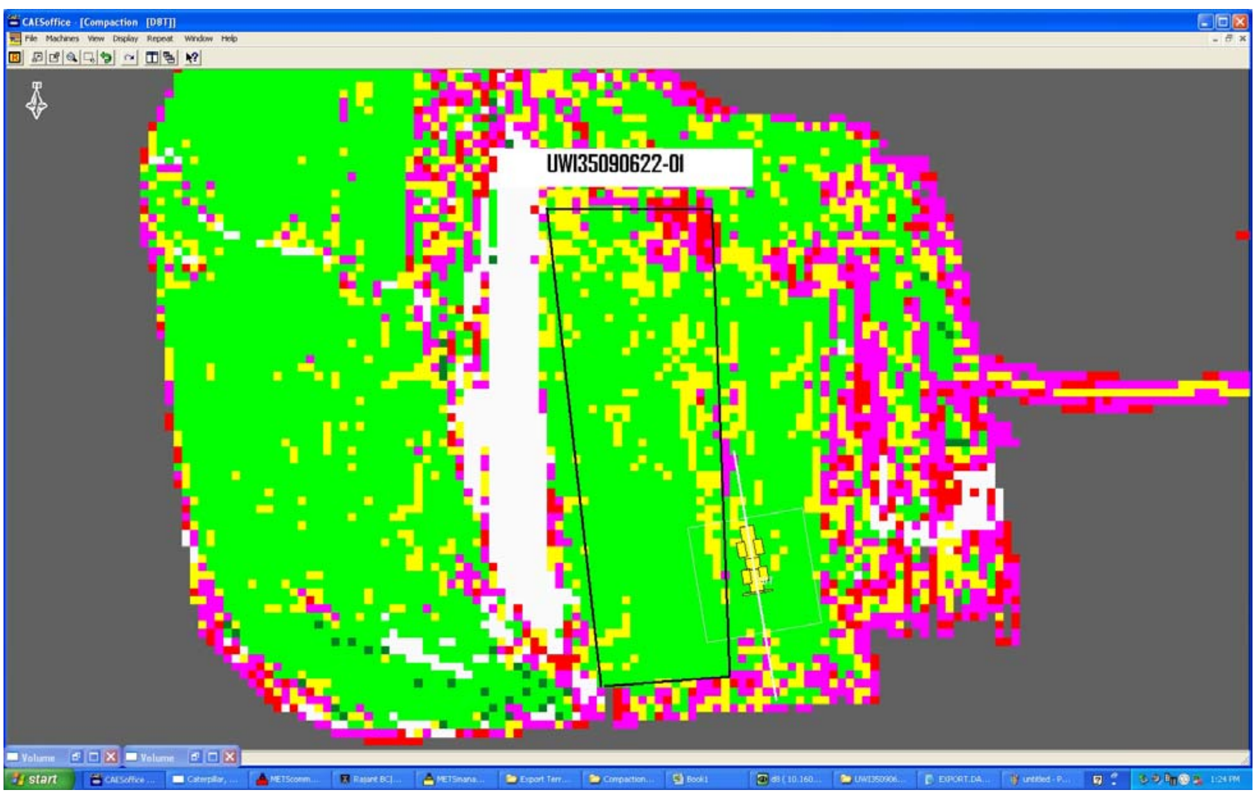
A2. RRM
Lift Approval Summary

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 (%)	Notes
06/30/09	UWI35090630-03	0	68	22,401	83.5	0.4	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 85.1
Total Quantity Approved (yd^3) = 22,401
Total # of Nuclear Density Gauge Tests = 30
Total # of Moisture Tests = 50
Quantity per Moisture Test (yd^3) = 448
Total Average Thickness (ft) = 0.5

1. Lift was approved using a nuclear density gauge and the Trimble survey system due to the fact the CAES system was down.

CAES compaction screen example from June 2009. There are compaction screens 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.



A2. RRM
Lift Approval Summary

July 2009											
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 (%)	Notes
07/01/09	UWH33090701-00	0	60	60	74.1	0.4	N/A	0	0	N/A	
07/01/09	UWH33090701-01	1	60	120	76.3	0.4	3	1	0	91.8	
07/01/09	UWI35090701-00	0	214	333	87.3	1.0	N/A	0	0	N/A	
07/01/09	UWI35090701-01	0	107	440	71.2	0.5	N/A	0	0	N/A	
07/01/09	UWI35090701-02	1	107	547	70.6	0.5	3	1	0	91.1	
07/01/09	UWD22090701-00	0	0	547	N/A	0.0	N/A	1	0	70.9	
07/01/09	UWI35090701-03	0	64	611	80.3	0.3	N/A	0	0	N/A	
07/06/09	UWI35090706-01	0	107	718	78.8	0.5	N/A	0	0	N/A	
07/06/09	UWH33090706-02	0	75	792	83.1	0.5	N/A	0	0	N/A	
07/06/09	UWH33090706-01	0	60	852	80.1	0.4	N/A	0	0	N/A	
07/06/09	UWH33090706-00	0	45	897	86.9	0.3	N/A	0	0	N/A	
07/06/09	UWI35090706-00	1	85	982	76.9	0.4	3	0	0	N/A	
07/06/09	UWI35090706-02	0	128	1,111	82.8	0.6	N/A	0	0	N/A	
07/06/09	UWI35090706-03	0	85	1,196	86.7	0.4	N/A	0	0	N/A	
07/07/09	UWH33090707-00	0	30	1,226	82.2	0.2	N/A	0	0	N/A	
07/07/09	UWI35090707-00	0	64	1,290	93.8	0.3	N/A	0	0	N/A	
07/07/09	UWH33090707-01	0	45	1,335	93.1	0.3	N/A	0	0	N/A	
07/07/09	UWD22090707-01	1	145	1,479	N/A	0.4	7	1	0	90.8	2
07/07/09	UWD22090707-00	1	108	1,588	N/A	0.3	3	1	0	91.2	2
07/07/09	UWH33090707-02	0	45	1,633	91.4	0.3	N/A	0	0	N/A	
07/07/09	UWH33090707-03	0	75	1,707	87.4	0.5	N/A	0	0	N/A	
07/07/09	UWI35090707-01	0	107	1,814	88.0	0.5	N/A	0	0	N/A	
07/07/09	UWI35090707-02	0	107	1,921	90.2	0.5	N/A	0	0	N/A	
07/07/09	UWI35090707-03	0	128	2,049	81.1	0.6	N/A	0	0	N/A	
07/08/09	UWD22090708-00	1	181	2,230	N/A	0.5	3	1	1	96.5	2
07/08/09	UWH33090708-00	0	0	2,230	83.1	0.0	N/A	0	0	N/A	
07/08/09	UWD22090708-01	1	217	2,446	N/A	0.6	7	1	0	90.1	2
07/08/09	UWH33090708-01	0	60	2,506	84.6	0.4	N/A	0	0	N/A	
07/08/09	UWH33090708-02	0	90	2,596	78.4	0.6	N/A	0	0	N/A	
07/08/09	UWH33090708-03	0	45	2,641	70.7	0.3	N/A	0	0	N/A	
07/08/09	UWI35090708-00	0	128	2,769	95.2	0.6	N/A	0	0	N/A	
07/08/09	UWI35090708-01	0	64	2,833	90.0	0.3	N/A	0	0	N/A	
07/08/09	UWI35090708-02	0	107	2,940	95.9	0.5	N/A	0	0	N/A	
07/08/09	UWI35090708-03	0	64	3,004	95.5	0.3	N/A	0	0	N/A	
07/09/09	UWH33090709-00	0	90	3,094	86.1	0.6	N/A	0	0	N/A	
07/09/09	UWD22090709-01	1	145	3,238	N/A	0.4	7	1	0	91.8	2
07/09/09	UWA32090709-01	0	207	3,445	82.9	0.5	N/A	0	0	N/A	
07/09/09	UWA32090709-00	0	207	3,652	73.2	0.5	N/A	0	0	N/A	
07/09/09	UWD22090709-00	1	217	3,869	N/A	0.6	7	1	0	93.0	2
07/09/09	UWD22090709-02	1	253	4,122	N/A	0.7	3	1	0	90.6	2
07/09/09	UWH33090709-01	0	75	4,196	94.0	0.5	N/A	0	0	N/A	
07/09/09	UWH33090709-02	1	90	4,286	94.8	0.6	7	1	0	92.0	
07/09/09	UWI35090709-00	0	64	4,350	89.6	0.3	N/A	0	0	N/A	
07/09/09	UWI35090709-01	1	115	4,465	90.1	0.6	7	1	0	94.3	
07/10/09	UWD22090710-00	1	217	4,682	N/A	0.6	3	1	0	90.9	2
07/10/09	UWI35090710-00	0	76	4,758	86.5	0.4	N/A	0	0	N/A	
07/10/09	UWI35090710-01	0	134	4,892	92.8	0.7	N/A	0	0	N/A	
07/10/09	UWI35090710-02	0	76	4,968	92.8	0.4	N/A	0	0	N/A	
07/10/09	UWD22090710-01	1	217	5,185	N/A	0.6	7	1	0	92.1	2

A2. RRM
Lift Approval Summary

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 (%)	Notes
07/10/09	UWH33090710-00	0	96	5,281	93.2	0.5	N/A	0	0	N/A	
07/10/09	UWH33090710-01	0	96	5,376	89.9	0.5	N/A	0	0	N/A	
07/10/09	UWH33090710-02	0	153	5,529	84.5	0.8	N/A	0	0	N/A	
07/11/09	UWH33090711-00	1	76	5,605	85.4	0.4	3	0	0	N/A	
07/11/09	UWF29090711-00	0	14	5,619	89.6	0.4	N/A	0	0	N/A	
07/11/09	UWF29090711-01	0	24	5,644	81.3	0.7	N/A	0	0	N/A	
07/11/09	UWF29090711-02	0	10	5,654	74.6	0.3	N/A	0	0	N/A	
07/11/09	UWI35090711-00	0	115	5,769	93.3	0.6	N/A	0	0	N/A	
07/11/09	UWI35090711-01	0	134	5,902	93.0	0.7	N/A	0	0	N/A	
07/13/09	UWF29090713-01	0	17	5,920	95.2	0.5	N/A	0	0	N/A	
07/13/09	UWF29090713-00	0	14	5,934	81.0	0.4	N/A	0	0	N/A	
07/13/09	UWF29090713-02	0	24	5,958	84.1	0.7	N/A	0	0	N/A	
07/13/09	UWD22090713-00	1	72	6,030	N/A	0.2	3	1	0	90.5	2
07/14/09	UWA32090714-00	0	198	6,228	82.8	0.5	N/A	0	0	N/A	
07/14/09	UWF30090714-00	1	34	6,262	88.3	0.3	N/A	0	0	N/A	
07/14/09	UWF30090714-01	0	45	6,306	85.2	0.4	N/A	0	0	N/A	
07/14/09	UWF30090714-02	0	90	6,396	76.5	0.8	N/A	0	0	N/A	
07/14/09	UWF30090714-03	0	101	6,497	76.5	0.9	N/A	0	0	N/A	
07/14/09	UWF30090714-04	0	90	6,586	77.3	0.8	N/A	0	0	N/A	
07/14/09	UWF30090714-05	0	45	6,631	91.7	0.4	N/A	0	0	N/A	
07/14/09	UWD22090714-00	1	289	6,920	N/A	0.8	3	1	0	90.8	2
07/14/09	UWD22090714-01	1	253	7,173	N/A	0.7	7	1	0	92.8	2
07/15/09	UWD22090715-00	1	289	7,462	N/A	0.8	7	1	0	94.2	2
07/15/09	UWD22090715-01	1	181	7,643	N/A	0.5	7	1	0	93.0	2
07/15/09	UWD22090715-02	1	72	7,715	N/A	0.2	7	1	0	97.4	2
07/15/09	UWA32090715-00	0	308	8,023	83.8	0.7	N/A	0	0	N/A	
07/15/09	UWA32090715-01	0	56	8,079	82.9	0.5	N/A	0	0	N/A	
07/15/09	UWF30090715-00	0	34	8,113	89.4	0.3	N/A	0	0	N/A	
07/15/09	UWF30090715-01	0	56	8,169	91.5	0.5	N/A	0	0	N/A	
07/15/09	UWF30090715-02	0	0	8,169	82.4	0.0	N/A	0	0	N/A	1
07/16/09	UWA32090716-00	0	264	8,433	80.2	0.6	N/A	0	0	N/A	
07/16/09	UWA32090716-01	0	264	8,698	84.1	0.6	N/A	0	0	N/A	
07/16/09	UWD22090716-00	1	108	8,806	74.5	0.6	N/A	0	0	N/A	
07/16/09	UWF30090716-00	0	133	8,939	84.2	0.5	N/A	0	0	N/A	
07/16/09	UWF30090716-01	0	133	9,072	87.3	0.5	N/A	0	0	N/A	
07/16/09	UWF30090716-02	0	160	9,232	78.2	0.6	N/A	0	0	N/A	
07/17/09	UWD22090717-00	1	108	9,340	76.9	0.6	7	0	0	N/A	
07/17/09	UWD22090717-01	0	54	9,394	77.8	0.3	N/A	0	0	N/A	
07/17/09	UWD22090717-02	0	72	9,466	73.8	0.4	N/A	0	0	N/A	
07/17/09	UWF30090717-00	0	133	9,599	78.6	0.5	N/A	0	0	N/A	
07/17/09	UWF30090717-01	0	107	9,706	83.8	0.4	N/A	0	0	N/A	
07/17/09	UWF30090717-02	0	160	9,866	81.1	0.6	N/A	0	0	N/A	
07/17/09	UWA32090717-00	0	220	10,086	79.4	0.5	N/A	0	0	N/A	
07/17/09	UWA32090717-01	0	220	10,306	75.2	0.5	N/A	0	0	N/A	
07/17/09	UWA32090717-02	0	264	10,571	77.5	0.6	N/A	0	0	N/A	
07/20/09	UWA32090720-00	0	264	10,835	75.4	0.6	N/A	0	0	N/A	
07/20/09	UWA32090720-01	0	220	11,056	77.1	0.5	N/A	0	0	N/A	
07/20/09	UWA32090720-02	0	220	11,276	75.5	0.5	N/A	0	0	N/A	
07/20/09	UWF30090720-00	0	133	11,409	80.1	0.5	N/A	0	0	N/A	
07/20/09	UWF30090720-01	0	80	11,489	78.3	0.3	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
07/20/09	UWF30090720-02	0	53	11,542	75.3	0.2	N/A	0	0	N/A	
07/20/09	UWH33090720-00	1	143	11,685	70.5	0.6	N/A	0	0	N/A	
07/20/09	UWD22090720-00	0	26	11,711	72.3	0.2	N/A	0	0	N/A	
07/20/09	UWI31090720-00	0	147	11,859	74.8	0.5	N/A	0	0	N/A	
07/20/09	UWI31090720-01	0	59	11,918	79.0	0.2	N/A	0	0	N/A	
07/20/09	UWI35090720-00	0	199	12,116	82.0	0.6	N/A	0	0	N/A	
07/21/09	UWD22090721-00	1	92	12,208	80.1	0.6	N/A	0	0	N/A	
07/21/09	UWA32090721-00	0	241	12,449	76.8	0.6	N/A	0	0	N/A	
07/21/09	UWA32090721-01	0	161	12,610	71.2	0.4	N/A	0	0	N/A	
07/21/09	UWH33090721-00	0	143	12,753	80.5	0.6	N/A	0	0	N/A	
07/21/09	UWH33090721-01	0	95	12,848	83.6	0.4	N/A	0	0	N/A	
07/21/09	UWH33090721-02	0	119	12,967	76.4	0.5	N/A	0	0	N/A	
07/21/09	UWI31090721-00	0	59	13,026	79.6	0.2	N/A	0	0	N/A	
07/21/09	UWI31090721-01	0	88	13,115	81.5	0.3	N/A	0	0	N/A	
07/21/09	UWI31090721-02	0	59	13,174	81.1	0.2	N/A	0	0	N/A	
07/21/09	UWI35090721-00	0	117	13,291	78.0	0.4	N/A	0	0	N/A	
07/21/09	UWI35090721-01	0	146	13,437	86.6	0.5	N/A	0	0	N/A	
07/21/09	UWI35090721-02	0	175	13,612	87.7	0.6	N/A	0	0	N/A	
07/22/09	UWA32090722-00	0	121	13,732	79.2	0.3	N/A	0	0	N/A	
07/22/09	UWI31090722-01	0	59	13,791	89.2	0.2	N/A	0	0	N/A	
07/22/09	UWI31090722-00	1	88	13,880	77.0	0.3	N/A	0	0	N/A	
07/22/09	UWI31090722-02	0	265	14,145	83.3	0.9	N/A	0	0	N/A	
07/22/09	UWI35090722-00	0	175	14,320	79.8	0.6	N/A	0	0	N/A	
07/22/09	UWI35090722-01	0	175	14,495	77.0	0.6	N/A	0	0	N/A	
07/22/09	UWI35090722-02	0	175	14,670	86.0	0.6	N/A	0	0	N/A	
07/22/09	UWH33090722-00	0	88	14,759	71.1	0.4	N/A	0	0	N/A	
07/22/09	UWH33090722-01	0	110	14,869	81.8	0.5	N/A	0	0	N/A	
07/22/09	UWH33090722-02	0	66	14,935	79.1	0.3	N/A	0	0	N/A	
07/23/09	UWF28090723-00	0	241	15,176	79.1	0.5	N/A	0	0	N/A	
07/23/09	UWI31090723-00	0	163	15,339	81.7	0.6	N/A	0	0	N/A	
07/23/09	UWF28090723-02	0	385	15,724	76.4	0.8	N/A	0	0	N/A	
07/23/09	UWA32090723-01	0	215	15,939	81.7	0.7	N/A	0	0	N/A	
07/23/09	UWA32090723-00	1	184	16,123	85.3	0.6	3	0	0	N/A	
07/23/09	UWI31090723-01	0	190	16,314	82.5	0.7	N/A	0	0	N/A	
07/23/09	UWF28090723-01	0	337	16,650	81.3	0.7	N/A	0	0	N/A	
07/23/09	UWI31090723-02	0	163	16,813	83.7	0.6	N/A	0	0	N/A	
07/24/09	UWF28090724-00	0	48	16,862	85.0	0.1	N/A	0	0	N/A	
07/24/09	UWI31090724-00	1	329	17,191	80.4	1.0	3	0	0	N/A	
07/27/09	UWI31090727-00	1	99	17,289	N/A	0.3	3	1	0	91.8	2
07/27/09	UWA32090727-00	1	207	17,497	N/A	0.7	3	1	0	95.2	2
07/27/09	UWF28090727-00	1	233	17,729	N/A	0.5	3	1	0	93.1	2
07/28/09	UWF28090728-00	1	47	17,776	74.2	0.1	N/A	0	0	N/A	
07/28/09	UWI31090728-00	0	99	17,875	77.3	0.3	N/A	0	0	N/A	
07/29/09	UWF28090729-01	1	233	18,107	79.4	0.5	N/A	0	0	N/A	
07/29/09	UWA32090729-00	0	178	18,285	82.9	0.6	N/A	0	0	N/A	
07/29/09	UWI31090729-00	0	99	18,384	86.1	0.3	N/A	0	0	N/A	
07/29/09	UWI31090729-01	0	197	18,581	81.5	0.6	N/A	0	0	N/A	
07/29/09	UWF28090729-00	0	186	18,767	83.5	0.4	N/A	0	0	N/A	
07/30/09	UWF28090730-01	1	140	18,907	N/A	0.3	7	1	0	93.9	2
07/30/09	UWA32090730-01	1	119	19,025	N/A	0.4	7	1	0	91.1	3

A2. RRM
Lift Approval Summary

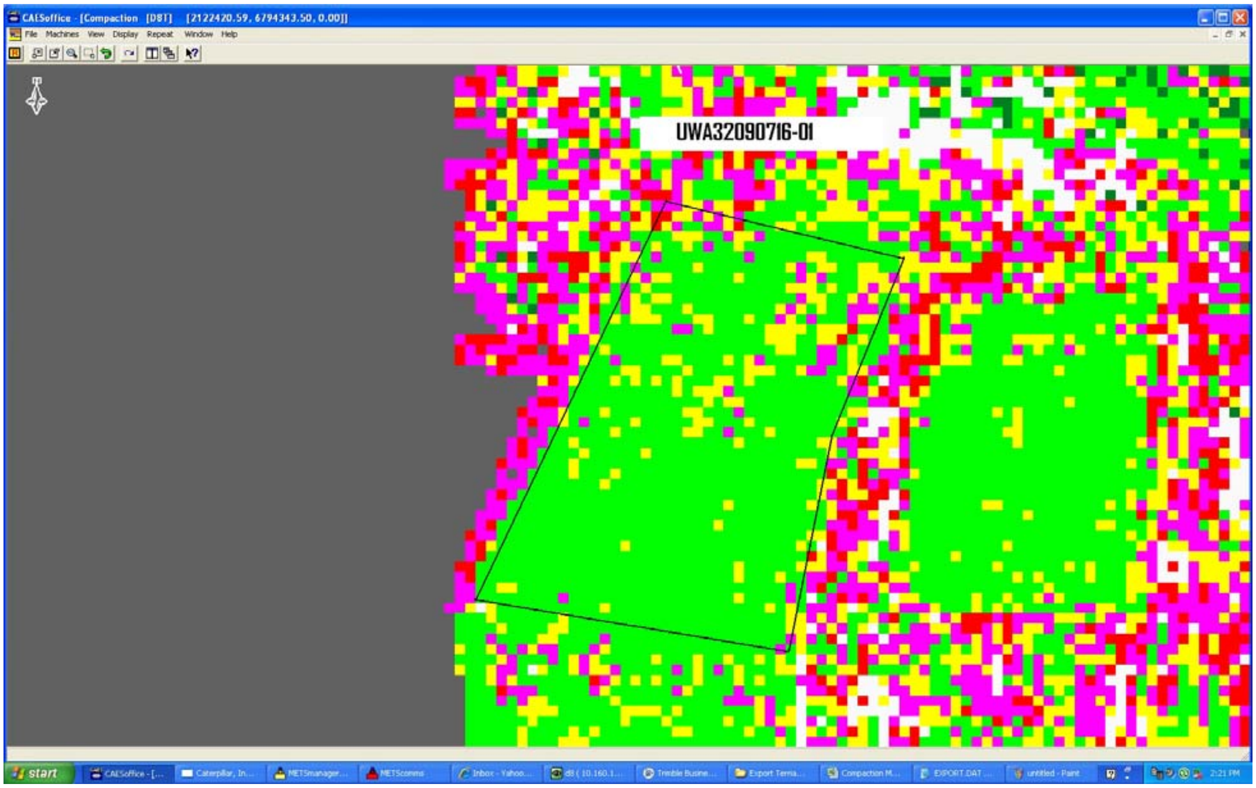
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
07/30/09	UWA32090730-00	1	119	19,144	N/A	0.4	7	1	0	91.8	3
07/30/09	UWI31090730-00	1	132	19,275	N/A	0.4	7	1	0	93.2	3
07/30/09	UWF28090730-00	1	186	19,461	N/A	0.4	7	1	0	94.2	3
07/30/09	UWI31090730-01	2	99	19,560	N/A	0.3	7	2	0	91.8	3,4
07/31/09	UWA32090731-00	1	119	19,679	N/A	0.4	7	1	0	95.1	3
07/31/09	UWF28090731-00	1	233	19,911	N/A	0.5	7	1	0	93.7	3
07/31/09	UWA32090731-01	1	148	20,059	N/A	0.5	7	1	0	92.3	3
07/31/09	UWI31090731-00	1	165	20,224	N/A	0.5	7	1	0	90.3	3
07/31/09	UWI31090731-01	1	197	20,421	N/A	0.6	7	1	0	91.8	3

Average CAES Screen Passing Pixels (%) = 82.4
Total Quantity Approved (yd^3) = 20,421
Total # of Nuclear Density Gauge Tests = 35
Total # of Moisture Tests = 46
Quantity per Moisture Test (yd^3) = 444
Total Average Thickness (ft) = 0.5

1. Lift was created in order to verify that compaction was still adequate after the removal of a stock pile. This is why there was no quantity of RRM approved.
2. Lift was approved using a nuclear density gauge and the Trimble survey system due to the fact the CAES system was down.
3. A new compactor was put into use, which did not yet have the CAES sytem installed. The nuclear density gauge and Trimble survey system were used to approve the lift.
4. Two nuclear density gauge tests were performed, due to the fact that the first one failed compaction. The lift was reworked and recompacted producing satisfactory results.

A2. RRM
Lift Approval Summary

CAES compaction screen example from July 2009. There are compaction screens 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.



A2. RRM
Lift Approval Summary

August 2009											
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 (%)	Notes
08/03/09	UWF28090803-00	1	286	286	N/A	0.7	7	1	0	93.7	1
08/03/09	UWI31090803-00	1	115	401	N/A	0.5	3	1	0	93.2	1
08/03/09	UWA32090803-00	0	146	547	72.0	0.7	N/A	0	0	N/A	
08/03/09	UWF28090803-01	0	0	547	80.7	0.6	N/A	0	0	N/A	
08/03/09	UWI31090803-01	0	0	547	84.3	0.5	N/A	0	0	N/A	
08/04/09	UWI31090804-00	1	147	694	N/A	0.7	3	1	0	98.5	2
08/04/09	UWF28090804-00	1	0	694	N/A	0.5	7	2	0	96.2	2,3
08/04/09	UWA32090804-00	1	0	694	N/A	0.7	3	2	0	90.3	2,4
08/04/09	UWA32090804-01	1	148	842	N/A	0.7	7	1	0	95.2	2
08/04/09	UWA32090804-02	1	0	842	N/A	0.1	7	1	0	91.3	2
08/05/09	UWI31090804-01	1	0	842	N/A	0.4	7	1	0	92.8	2,5
08/05/09	UWA32090805-00	1	149	991	N/A	0.6	7	1	0	90.4	2
08/05/09	UWA32090805-01	2	0	991	N/A	0.3	7	2	0	97.0	2,3
08/05/09	UWF28090805-00	1	0	991	N/A	0.4	7	1	0	91.7	2
08/05/09	UWF28090805-01	1	150	1,141	N/A	0.4	7	1	0	90.1	2
08/05/09	UWI31090805-00	1	0	1,141	N/A	0.6	7	1	0	90.5	2
08/06/09	UWI31090805-01	1	0	1,141	N/A	0.4	7	1	0	98.8	2,5
08/06/09	UWA32090806-00	1	151	1,292	N/A	0.4	7	1	0	94.9	2
08/06/09	UWA32090806-01	0	84	1,376	85.1	0.4	N/A	0	0	N/A	
08/06/09	UWF28090806-02	0	179	1,555	81.9	0.4	N/A	0	0	N/A	
08/06/09	UWF28090806-01	0	134	1,689	85.3	0.3	N/A	0	0	N/A	
08/06/09	UWF28090806-00	0	312	2,001	83.9	0.7	N/A	0	0	N/A	
08/06/09	UWF28090806-03	0	134	2,135	84.8	0.3	N/A	0	0	N/A	
08/07/09	UWF28090807-00	0	99	2,234	87.8	0.3	N/A	0	0	N/A	
08/07/09	UWF28090807-01	1	164	2,398	82.8	0.5	7	0	0	N/A	
08/07/09	UWF28090807-02	0	197	2,595	79.2	0.7	N/A	0	0	N/A	
08/07/09	UWI31090807-00	0	154	2,749	80.7	0.6	N/A	0	0	N/A	
08/07/09	UWI31090807-01	0	96	2,845	71.7	0.3	N/A	0	0	N/A	
08/09/09	UWF28090809-00	1	134	2,979	78.4	0.3	7	0	0	N/A	
08/10/09	UWA32090810-00	0	139	3,118	82.5	0.5	N/A	0	0	N/A	
08/10/09	UWI31090810-00	1	99	3,217	81.2	0.3	7	0	0	N/A	
08/11/09	UWF28090811-00	1	20	3,237	88.7	0.2	7	0	0	N/A	
08/11/09	UWF28090811-01	1	51	3,288	76.6	0.5	7	0	0	N/A	
08/11/09	UWF28090811-02	0	51	3,339	85.9	0.5	N/A	0	0	N/A	
08/11/09	UWF28090811-03	0	51	3,390	93.0	0.5	N/A	0	0	N/A	
08/11/09	UWF28090811-04	0	51	3,441	88.3	0.5	N/A	0	0	N/A	
08/11/09	UWF28090811-05	0	51	3,492	87.9	0.5	N/A	0	0	N/A	
08/11/09	UWF28090811-06	0	20	3,512	89.8	0.2	N/A	0	0	N/A	
08/11/09	UWF28090811-07	0	51	3,563	84.4	0.5	N/A	0	0	N/A	
08/11/09	UWF28090811-08	0	61	3,624	86.3	0.6	N/A	0	0	N/A	
08/11/09	UWF29090811-00	0	30	3,654	79.7	0.6	N/A	0	0	N/A	
08/11/09	UWF29090811-01	0	30	3,684	89.3	0.6	N/A	0	0	N/A	
08/11/09	UWF29090811-02	0	35	3,719	75.2	0.7	N/A	0	0	N/A	
08/11/09	UWF29090811-03	0	35	3,754	81.4	0.7	N/A	0	0	N/A	
08/11/09	UWF29090811-04	0	30	3,784	71.9	0.6	N/A	0	0	N/A	
08/11/09	UWF29090811-05	0	25	3,809	84.9	0.5	N/A	0	0	N/A	
08/11/09	UWF29090811-06	0	30	3,839	76.0	0.6	N/A	0	0	N/A	
08/11/09	UWI31090811-00	0	272	4,111	72.3	0.6	N/A	0	0	N/A	
08/12/09	UWF28090812-00	1	40	4,151	98.8	0.4	7	0	0	N/A	

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Lift Approval Summary

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 (%)	Notes
08/12/09	UWF28090812-01	0	61	4,212	87.1	0.6	N/A	0	0	N/A	
08/13/09	UWF28090813-00	1	330	4,542	94.1	0.9	7	0	0	N/A	
08/13/09	UWF28090813-01	0	257	4,799	88.6	0.7	N/A	0	0	N/A	
08/13/09	UWF28090813-02	0	220	5,019	87.0	0.6	N/A	0	0	N/A	
08/13/09	UWF28090813-03	0	257	5,276	80.2	0.7	N/A	0	0	N/A	
08/14/09	UWF28090814-00	0	183	5,459	81.3	0.5	N/A	0	0	N/A	
08/14/09	UWF28090814-01	0	220	5,679	81.7	0.6	N/A	0	0	N/A	
08/14/09	UWF28090814-02	0	183	5,862	81.3	0.5	N/A	0	0	N/A	
08/14/09	UWF28090814-03	0	183	6,045	79.3	0.5	N/A	0	0	N/A	
08/17/09	UWF28090817-04	0	37	6,082	93.4	0.1	N/A	0	0	N/A	
08/17/09	UWF28098017-00	1	177	6,259	76.8	0.5	7	0	0	N/A	
08/17/09	UWF28090817-01	0	212	6,471	75.6	0.6	N/A	0	0	N/A	
08/17/09	UWF28090817-02	0	141	6,612	90.5	0.4	N/A	0	0	N/A	
08/17/09	UWF28090817-03	0	106	6,718	86.8	0.3	N/A	0	0	N/A	
08/17/09	UWI31090817-00	0	227	6,945	72.0	0.5	N/A	0	0	N/A	
08/18/09	UWI31090818-01	0	150	7,095	90.9	0.4	N/A	0	0	N/A	
08/18/09	UWF28090818-00	0	191	7,286	92.5	0.5	N/A	0	0	N/A	
08/18/09	UWF28090818-02	0	191	7,477	85.1	0.5	N/A	0	0	N/A	
08/18/09	UWI31090817-01	0	227	7,704	70.5	0.5	N/A	0	0	N/A	5
08/18/09	UWI31090818-00	1	187	7,891	85.4	0.5	7	0	0	N/A	
08/18/09	UWF28090818-03	1	191	8,082	86.3	0.7	7	0	0	N/A	
08/18/09	UWF28090818-01	0	115	8,197	80.0	0.3	N/A	0	0	N/A	
08/19/11	UWI31090819-02	1	262	8,459	84.4	0.7	7	0	0	N/A	
08/19/11	UWI31090819-01	0	262	8,721	82.7	0.7	N/A	0	0	N/A	
08/19/11	UWI31090819-00	0	112	8,833	92.2	0.3	N/A	0	0	N/A	
08/19/11	UWI31090819-03	1	37	8,870	80.9	0.1	7	0	0	N/A	
08/19/11	UWF28090818-03	1	229	9,099	86.3	0.6	7	0	0	N/A	5
08/19/11	UWF28090819-01	1	191	9,290	83.2	0.5	7	0	0	N/A	
08/19/11	UWF28090819-00	0	191	9,481	77.0	0.5	N/A	0	0	N/A	
08/19/11	UWF28090819-02	1	153	9,634	73.9	0.4	7	0	0	N/A	
08/20/09	UWI31090820-00	0	187	9,821	72.6	0.5	N/A	0	0	N/A	
08/20/09	UWI31090820-01	0	224	10,045	85.4	0.6	N/A	0	0	N/A	
08/20/09	UWF28090820-00	1	136	10,181	70.8	0.3	7	0	0	N/A	
08/20/09	UWF28090820-01	0	136	10,317	75.5	0.3	N/A	0	0	N/A	
08/21/09	UWI31090820-02	1	187	10,504	N/A	0.5	7	0	1	98.3	6
08/21/09	UWF28090821-00	1	181	10,685	N/A	0.4	7	0	1	92.4	6
08/21/09	UWA32090821-00	1	22	10,707	N/A	0.1	7	0	1	97.2	6
08/21/09	UWA32090821-01	1	67	10,774	N/A	0.3	7	0	1	92.4	6
08/24/09	UWI31090824-00	1	224	10,998	N/A	0.6	7	1	0	91.1	2
08/24/09	UWF28090821-01	1	227	11,225	N/A	0.5	7	1	0	99.2	2,5
08/24/09	UWA32090824-00	1	156	11,381	N/A	0.7	7	0	1	96.0	6
08/25/09	UWF28090825-01	1	122	11,503	N/A	0.2	7	1	0	91.0	2
08/25/09	UWF28090825-00	1	231	11,734	N/A	0.6	7	1	0	90.9	2
08/25/09	UWI31090824-01	1	254	11,988	N/A	0.5	3	1	0	92.8	2
08/25/09	UWA32090825-00	1	75	12,063	N/A	0.4	7	1	0	90.6	2
08/25/09	UWA32090825-01	1	19	12,082	N/A	0.1	7	1	0	93.4	2
08/25/09	UWF28090825-02	1	186	12,268	N/A	0.3	7	1	0	96.4	2
08/26/09	UWI31090825-00	1	132	12,400	N/A	0.2	7	1	0	95.0	2
08/26/09	UWA32090826-00	1	119	12,519	N/A	0.4	7	1	0	90.8	2
08/26/09	UWF28090826-00	1	335	12,854	N/A	0.5	7	1	0	91.2	2

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Lift Approval Summary

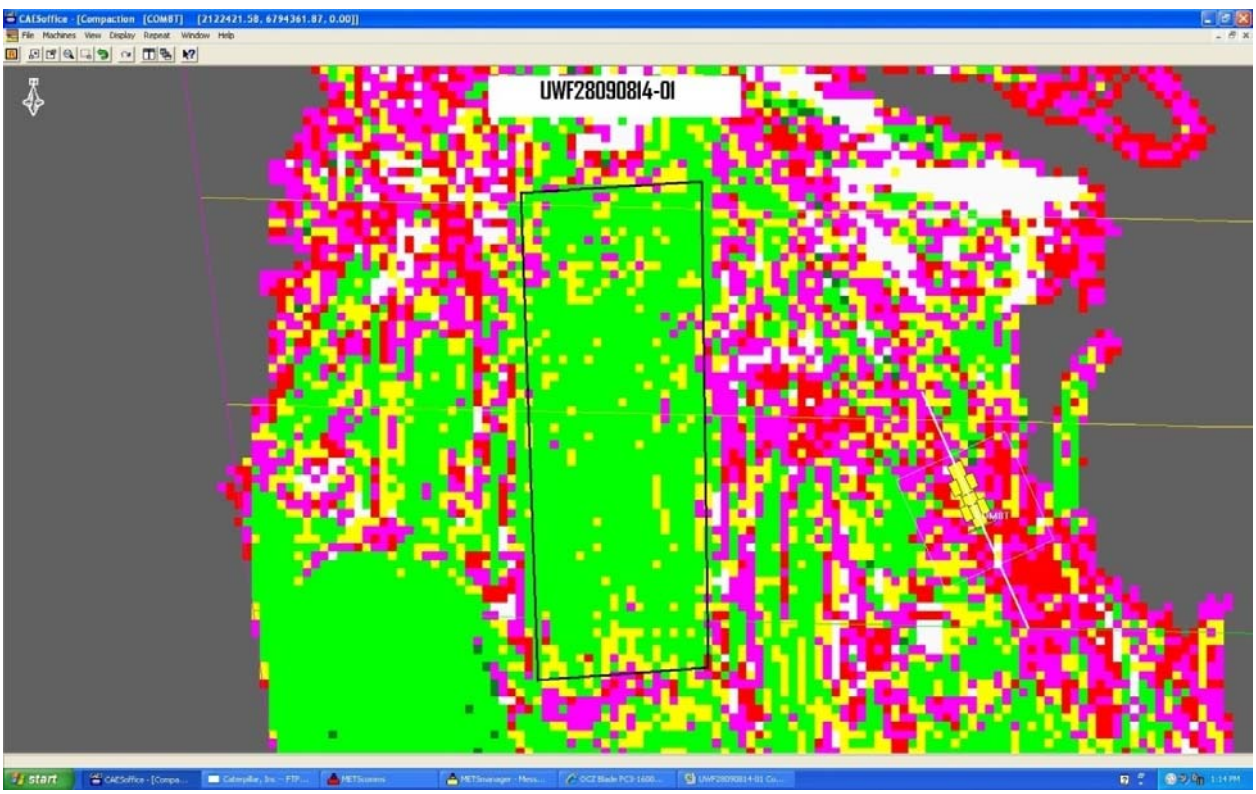
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd³)	Cumulative Quantity Approved (yd³)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
08/26/09	UWF28090826-01	1	402	13,256	N/A	0.6	7	1	0	95.2	2
08/26/09	UWF28090826-02	1	134	13,390	N/A	0.2	7	1	0	94.4	2
08/26/09	UWA32090826-01	1	123	13,513	N/A	0.4	7	1	0	96.7	2
08/26/09	UWH31090826-00	1	106	13,619	N/A	0.5	7	1	0	93.5	2
08/26/09	UWH32090826-00	1	138	13,757	N/A	0.5	7	1	1	99.1	2,6
08/26/09	UWI31090826-00	1	330	14,087	N/A	0.5	7	1	0	94.3	2
08/27/09	UWF28090827-01	1	280	14,367	79.2	0.6	7	1	0	94.9	
08/27/09	UWF28090827-00	1	201	14,568	N/A	0.3	7	1	0	93.8	2
08/27/09	UWA32090827-00	1	222	14,790	N/A	0.7	7	1	0	93.1	2
08/27/09	UWA32090827-01	1	128	14,918	79.3	0.4	7	1	0	90.8	
08/27/09	UWH31090827-00	1	50	14,968	N/A	0.2	7	1	0	94.7	2
08/27/09	UWH31090827-01	1	155	15,123	76.3	0.6	7	1	0	91.4	
08/27/09	UWH32090827-00	1	26	15,149	N/A	0.1	7	1	0	93.3	
08/27/09	UWH32090827-01	1	130	15,279	78.1	0.5	7	1	0	93.7	
08/27/09	UWA32090827-02	1	58	15,337	71.0	0.3	7	0	0	N/A	
08/27/09	UWF28090827-02	0	140	15,477	71.5	0.3	N/A	0	0	N/A	
08/28/09	UWA32090828-01	1	107	15,584	78.2	0.4	7	0	0	N/A	
08/28/09	UWA32090828-02	0	161	15,745	78.2	0.6	N/A	0	0	N/A	
08/28/09	UWH31090828-00	0	55	15,800	86.6	0.3	N/A	0	0	N/A	
08/28/09	UWH32090828-00	0	55	15,855	81.2	0.2	N/A	0	0	N/A	
08/28/09	UWA32090828-00	0	107	15,962	71.4	0.4	N/A	0	0	N/A	
08/28/09	UWF28090828-00	0	111	16,073	76.7	0.3	N/A	0	0	N/A	
08/28/09	UWH31090828-01	0	0	16,073	91.3	0	N/A	0	0	N/A	
08/28/09	UWH32090828-01	0	110	16,183	92.7	0.4	N/A	0	0	N/A	
08/28/09	UWH31090828-02	0	55	16,238	83.3	0.3	N/A	0	0	N/A	
08/28/09	UWH32090828-02	0	138	16,376	83.1	0.5	N/A	0	0	N/A	
08/28/09	UWF28090828-01	0	222	16,598	72.4	0.6	N/A	0	0	N/A	
08/28/09	UWF28090828-02	1	0	16,598	N/A	0.0	7	1	0	90.5	2
08/28/09	UWF28090828-03	1	0	16,598	N/A	0.0	7	1	0	91.7	2
08/28/09	UWF28090828-04	1	0	16,598	N/A	0.0	7	1	0	91.5	2
08/28/09	UWF28090828-05	0	37	16,635	78.7	0.1	N/A	0	0	N/A	
08/29/09	UWH32090829-00	0	28	16,663	77.2	0.1	N/A	0	0	N/A	
08/29/09	UWA32090829-00	0	180	16,843	78.2	0.6	N/A	0	0	N/A	
08/29/09	UWF28090829-00	0	126	16,969	71.7	0.5	N/A	0	0	N/A	
08/29/09	UWF28090829-01	1	126	17,095	79.8	0.5	7	0	0	N/A	
08/29/09	UWA32090829-01	0	90	17,185	72.2	0.3	N/A	0	0	N/A	
08/31/09	UWF26090831-01	0	31	17,216	74.3	0.02	N/A	0	0	N/A	
08/31/09	UWF26090831-00	1	23	17,239	88.6	0.02	7	0	0	N/A	
08/31/09	UWF25090831-09	0	9	17,248	81.7	0.2	N/A	0	0	N/A	
08/31/09	UWF25090831-08	0	14	17,262	80.0	0.3	N/A	0	0	N/A	
08/31/09	UWF25090831-07	0	5	17,267	79.0	0.1	N/A	0	0	N/A	
08/31/09	UWF28090831-00	0	357	17,624	70.7	0.8	N/A	0	0	N/A	
08/31/09	UWA32090831-00	1	13	17,637	80.2	0.1	7	0	0	N/A	
08/31/09	UWD27090831-00	0	20	17,657	90.0	0.7	N/A	0	0	N/A	
08/31/09	UWF25090831-00	0	28	17,685	76.4	0.6	N/A	0	0	N/A	
08/31/09	UWF25090831-01	0	32	17,717	77.9	0.7	N/A	0	0	N/A	
08/31/09	UWF25090831-02	0	23	17,740	83.2	0.5	N/A	0	0	N/A	
08/31/09	UWF25090831-03	0	5	17,745	71.8	0.1	N/A	0	0	N/A	
08/31/09	UWF25090831-04	0	28	17,773	77.9	0.6	N/A	0	0	N/A	
08/31/09	UWF25090831-05	0	23	17,796	84.0	0.5	N/A	0	0	N/A	

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 (%)	Notes
08/31/09	UWF25090831-06	0	23	17,819	82.4	0.5	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 81.4
Total Quantity Approved (yd^3) = 17,819
Total # of Nuclear Density Gauge Tests = 46
Total # of Moisture Tests = 70
Quantity per Moisture Test (yd^3) = 255
Total Average Thickness (ft) = 0.4

1. A new compactor was put into use, which did not yet have the CAES sytem installed. The trimble survey system and nuclear density gauge were used to approve the lift.
2. CAES system was down; the trimble survey system and nuclear density gauge were used to approve the lift.
3. Two nuclear density gauge tests were taken due to the fact that the first one failed compaction. The lift was reworked and recompacted which produced satisfactory results.
4. Two nuclear density gauge tests were taken due to the fact that the first one failed moisture. The lift was reworked and recompacted which produced satisfactory results.
5. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the lift ID #.
6. The CAES system was down; the trimble survey system and sand cone method were used to approve the lift.

CAES compaction screen example from August 2009. There are compaction screens 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.



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Lift Approval Summary

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 (%)	Notes
September 2009											
09/01/09	UWF26090901-00	0	148	148	73.7	0.9	N/A	0	0	N/A	
09/01/09	UWF26090901-01	0	82	230	77.7	0.5	N/A	0	0	N/A	
09/01/09	UWF26090901-02	1	66	295	86.3	0.4	7	0	0	N/A	
09/01/09	UWF26090901-03	0	148	443	88.9	0.9	N/A	0	0	N/A	
09/01/09	UWF26090901-04	0	98	541	92.6	0.6	N/A	0	0	N/A	
09/01/09	UWF26090901-05	0	164	705	80.7	1.0	N/A	0	0	N/A	
09/01/09	UWF26090901-06	0	115	820	78.7	0.7	N/A	0	0	N/A	
09/01/09	UWF26090901-07	0	98	918	82.0	0.6	N/A	0	0	N/A	
09/01/09	UWF26090901-08	0	82	1,000	71.7	0.5	N/A	0	0	N/A	
09/01/09	UWF26090901-09	0	164	1,164	74.7	1.0	N/A	0	0	N/A	
09/01/09	UWF26090901-10	0	164	1,328	76.6	1.0	N/A	0	0	N/A	
09/01/09	UWE27090901-00	1	144	1,472	78.1	0.6	7	1	0	94.5	1
09/01/09	UWC23090901-00	1	178	1,650	91.3	0.4	N/A	1	0	91.3	1
09/02/09	UWE27090902-00	0	120	1,770	75.3	0.5	N/A	0	0	N/A	
09/02/09	UWF26090902-00	0	39	1,810	71.7	0.1	N/A	0	0	N/A	
09/02/09	UWF26090902-01	1	118	1,927	70.8	0.3	7	0	0	N/A	
09/02/09	UWA32090902-00	0	65	1,992	82.6	0.4	N/A	0	0	N/A	
09/02/09	UWH31090902-01	0	108	2,100	82.6	0.6	N/A	0	0	N/A	
09/02/09	UWH31090902-00	0	90	2,190	82.4	0.5	N/A	0	0	N/A	
09/02/09	UWH32090902-00	0	104	2,294	80.0	0.5	N/A	0	0	N/A	
09/02/09	UWF26090902-01 WEST	0	68	2,361	73.6	0.4	N/A	0	0	N/A	2
09/02/09	UWF26090902-00 EAST	0	59	2,421	71.3	0.5	N/A	0	0	N/A	2
09/02/09	UWF26090902-00 WEST	0	102	2,523	72.7	0.6	N/A	0	0	N/A	2
09/03/09	UWF26090902-01 EAST	0	24	2,547	74.8	0.2	N/A	0	0	N/A	2,3
09/03/09	UWF26090903-00 WEST	1	82	2,628	71.0	0.5	7	0	0	N/A	2
09/03/09	UWH32090902-01	0	88	2,716	71.0	0.3	N/A	0	0	N/A	3
09/03/09	UWF26090903-00 EAST	0	83	2,800	79.1	0.7	N/A	0	0	N/A	2
09/03/09	UWA32090903-00	0	303	3,102	88.1	0.9	N/A	0	0	N/A	
09/03/09	UWF26090903-02 WEST	0	49	3,151	85.8	0.3	N/A	0	0	N/A	
09/03/09	UWA32090903-01	0	202	3,353	79.8	0.6	N/A	0	0	N/A	
09/03/09	UWH31090903-00	0	109	3,462	77.2	0.6	N/A	0	0	N/A	
09/03/09	UWF26090903-01WEST	0	65	3,528	83.9	0.4	N/A	0	0	N/A	
09/03/09	UWF26090903-01 EAST	1	83	3,611	83.6	0.7	7	0	0	N/A	
09/04/09	UWH31090904-00	0	73	3,684	79.0	0.4	N/A	0	0	N/A	
09/04/09	UWF26090904-00 WEST	1	98	3,782	88.6	0.6	7	0	0	N/A	
09/04/09	UWF26090904-01 EAST	0	36	3,817	76.2	0.3	N/A	0	0	N/A	
09/04/09	UWA32090904-00	0	269	4,086	75.9	0.8	N/A	0	0	N/A	
09/04/09	UWF26090904-01 WEST	0	49	4,135	87.1	0.3	N/A	0	0	N/A	
09/04/09	UWF26090904-02 EAST	0	59	4,195	80.2	0.5	N/A	0	0	N/A	
09/04/09	UWF26090904-03 EAST	0	48	4,242	71.1	0.4	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
09/05/09	UWF26090904-02 WEST	0	82	4,324	77.4	0.5	N/A	0	0	N/A	
09/05/09	UWA32090904-01	0	101	4,425	89.9	0.3	N/A	0	0	N/A	
09/05/09	UWA32090904-02	0	168	4,593	79.3	0.5	N/A	0	0	N/A	
09/05/09	UWF26090904-00 EAST	0	48	4,641	70.6	0.4	N/A	0	0	N/A	
09/05/09	UWH32090904-00	0	83	4,723	71.6	0.4	N/A	0	0	N/A	
09/05/09	UWA32090904-03	0	168	4,892	83.4	0.5	N/A	0	0	N/A	
09/05/09	UWF26090904-03 WEST	0	82	4,973	73.6	0.5	N/A	0	0	N/A	
09/05/09	UWF26090904-04 EAST	0	59	5,033	71.8	0.5	N/A	0	0	N/A	
09/05/09	UWH32090904-01	0	104	5,136	76.0	0.5	N/A	0	0	N/A	
09/05/09	UWF26090904-05 EAST	1	59	5,196	71.5	0.5	7	0	0	N/A	
09/08/09	UWF26090905-00 WEST	0	82	5,277	87.0	0.5	N/A	0	0	N/A	3
09/08/09	UWF26090905-00 EAST	0	48	5,325	80.7	0.4	N/A	0	0	N/A	3
09/08/09	UWA32090908-00	0	202	5,526	76.0	0.6	N/A	0	0	N/A	
09/08/09	UWA32090908-01	1	202	5,728	91.2	0.6	7	0	0	N/A	
09/08/09	UWF24090908-00	0	117	5,845	72.0	0.4	N/A	0	0	N/A	
09/08/09	UWH31090908-00	0	167	6,013	71.9	0.5	N/A	0	0	N/A	
09/08/09	UWE24090908-00	1	227	6,239	70.8	0.6	7	0	0	N/A	
09/08/09	UWF26090908-00 WEST	0	114	6,354	84.1	0.7	N/A	0	0	N/A	
09/09/09	UWE24090909-00	0	227	6,580	81.1	0.6	N/A	0	0	N/A	
09/09/09	UWF24090909-01	0	176	6,756	76.7	0.6	N/A	0	0	N/A	
09/09/09	UWF24090909-02	0	176	6,931	85.6	0.6	N/A	0	0	N/A	
09/09/09	UWE24090909-01	1	265	7,196	74.9	0.7	7	0	0	N/A	
09/09/09	UWF24090909-03	0	151	7,348	75.5	0.5	N/A	0	0	N/A	
09/09/09	UWF24090909-00	0	182	7,529	79.7	0.6	N/A	0	0	N/A	
09/09/09	UWF24090909-04	1	212	7,741	71.1	0.7	7	0	0	N/A	
09/09/09	UWE24090909-02	0	189	7,930	70.0	0.5	N/A	0	0	N/A	
09/10/09	UWF22090910-05	0	11	7,941	77.8	0.6	N/A	0	0	N/A	
09/10/09	UWF22090910-06	0	8	7,949	79.6	0.4	N/A	0	0	N/A	
09/10/09	UWF22090910-04	0	6	7,955	88.9	0.3	N/A	0	0	N/A	
09/10/09	UWF22090910-03	0	13	7,968	79.6	0.7	N/A	0	0	N/A	
09/10/09	UWF22090910-02	0	15	7,983	79.6	0.8	N/A	0	0	N/A	
09/10/09	UWE24090910-04	1	227	8,210	N/A	0.6	7	1	0	95.7	1
09/10/09	UWE24090910-01	1	151	8,361	74.4	0.4	7	0	0	N/A	
09/10/09	UWF24090910-02	0	121	8,482	75.5	0.4	N/A	0	0	N/A	
09/10/09	UWF24090910-00	0	182	8,664	71.8	0.6	N/A	0	0	N/A	
09/10/09	UWF24090910-03	0	121	8,785	75.4	0.4	N/A	0	0	N/A	
09/10/09	UWF24090910-04	0	182	8,967	96.0	0.6	N/A	1	0	95.6	
09/10/09	UWF22090910-01	0	13	8,980	74.1	0.7	N/A	0	0	N/A	
09/10/09	UWE24090910-03	0	189	9,169	77.6	0.5	N/A	0	0	N/A	
09/10/09	UWE24090910-02	0	189	9,358	80.0	0.5	N/A	0	0	N/A	
09/10/09	UWE24090910-00	0	340	9,698	80.5	0.9	N/A	0	0	N/A	
09/10/09	UWF22090910-00	0	17	9,715	75.9	0.9	N/A	0	0	N/A	
09/10/09	UWF24090910-01	0	8	9,723	75.0	0.4	N/A	0	0	N/A	
09/10/09	UWF22090910-07	0	6	9,728	72.2	0.3	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
09/11/09	UWF22090911-01	0	14	9,743	100.0	0.7	N/A	0	0	N/A	
09/11/09	UWF22090911-00	0	12	9,755	75.9	0.6	N/A	0	0	N/A	
09/11/09	UWF24090911-00	0	91	9,846	79.1	0.3	N/A	0	0	N/A	
09/11/09	UWF24090911-02	0	61	9,906	76.0	0.2	N/A	0	0	N/A	
09/11/09	UWE24090911-01	0	227	10,133	75.1	0.6	N/A	0	0	N/A	
09/11/09	UWF24090911-01	0	8	10,141	73.2	0.4	N/A	0	0	N/A	
09/11/09	UWF22090911-02	0	20	10,162	87.5	1.0	N/A	0	0	N/A	
09/11/09	UWE24090911-00	0	151	10,313	81.1	0.4	N/A	0	0	N/A	
09/11/09	UWF24090911-03	1	121	10,434	73.5	0.4	7	1	0	90.9	1
09/11/09	UWE24090911-02	0	303	10,736	71.1	0.8	N/A	0	0	N/A	
09/12/09	UWE24090912-00	0	189	10,926	70.9	0.5	N/A	0	0	N/A	
09/14/09	UWH31090910-00	0	167	11,093	85.1	0.5	N/A	0	0	N/A	3
09/14/09	UWI30090914-01	0	427	11,520	81.9	1.0	N/A	0	0	N/A	
09/14/09	UWI30090914-00	1	384	11,904	84.3	0.9	3	0	0	N/A	
09/14/09	UWF24090914-00	0	212	12,116	72.9	0.7	N/A	0	0	N/A	
09/14/09	UWF22090911-03	0	18	12,134	84.6	0.9	N/A	0	0	N/A	3
09/15/09	UWF24090915-01	0	91	12,225	78.1	0.3	N/A	0	0	N/A	
09/15/09	UWF24090915-02	0	212	12,437	76.5	0.7	N/A	0	0	N/A	
09/15/09	UWE24090915-01	0	227	12,664	78.7	0.6	N/A	0	0	N/A	
09/15/09	UWI30090914-02	1	256	12,920	80.1	0.6	7	0	0	N/A	
09/15/09	UWI30090915-00	0	341	13,261	83.4	0.8	N/A	0	0	N/A	
09/15/09	UWE24090915-00	0	227	13,488	75.5	0.6	N/A	0	0	N/A	
09/15/09	UWF24090915-00	0	91	13,579	83.0	0.3	N/A	0	0	N/A	
09/15/09	UWI30090915-01	0	427	14,006	81.0	1.0	N/A	0	0	N/A	
09/16/09	UWF24090916-01	1	89	14,095	70.2	0.3	7	0	0	N/A	
09/16/09	UWF24090916-02	0	237	14,331	74.4	0.8	N/A	0	0	N/A	
09/16/09	UWF24090916-03	0	177	14,509	71.1	0.6	N/A	0	0	N/A	
09/16/09	UWF24090916-04	0	59	14,568	77.2	0.2	N/A	0	0	N/A	
09/16/09	UWE24090916-01	0	265	14,832	77.5	0.7	N/A	0	0	N/A	
09/16/09	UWE24090916-02	0	227	15,059	70.1	0.6	N/A	0	0	N/A	
09/16/09	UWE24090916-03	0	151	15,211	71.1	0.4	N/A	0	0	N/A	
09/16/09	UWE24090916-04	0	76	15,286	73.4	0.2	N/A	0	0	N/A	
09/16/09	UWE24090916-00	0	265	15,551	76.7	0.7	N/A	0	0	N/A	
09/16/09	UWF24090916-00	1	118	15,669	80.6	0.4	7	0	0	N/A	
09/16/09	UWF24090916-05	0	207	15,876	71.4	0.7	N/A	0	0	N/A	
09/17/09	UWF24090917-00	1	89	15,965	77.0	0.3	7	0	0	N/A	
09/17/09	UWF24090917-01	0	177	16,142	73.7	0.6	N/A	0	0	N/A	
09/17/09	UWE24090917-00	0	189	16,331	71.7	0.5	N/A	0	0	N/A	
09/17/09	UWE24090917-01	0	113	16,445	81.5	0.3	N/A	0	0	N/A	
09/17/09	UWE24090917-02	1	151	16,596	83.2	0.4	7	0	0	N/A	
09/17/09	UWE24090917-03	0	151	16,747	74.0	0.4	N/A	0	0	N/A	
09/17/09	UWE24090917-04	0	189	16,937	73.4	0.5	N/A	0	0	N/A	
09/17/09	UWF24090917-02	0	177	17,114	74.5	0.6	N/A	0	0	N/A	
09/17/09	UWF24090917-03	0	148	17,262	76.4	0.5	N/A	0	0	N/A	
09/17/09	UWH30090916-00	0	25	17,287	87.2	0.2	N/A	0	0	N/A	3
09/17/09	UWH30090917-00	0	88	17,375	86.1	0.7	N/A	0	0	N/A	
09/17/09	UWF24090917-04	0	207	17,582	71.3	0.7	N/A	0	0	N/A	
09/17/09	UWE24090917-05	1	227	17,809	73.4	0.6	7	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
09/15/09	UWE24090915-00	0	227	13,488	75.5	0.6	N/A	0	0	N/A	
09/18/09	UWF24090918-00	0	223	18,032	74.2	0.7	N/A	0	0	N/A	
09/18/09	UWF24090918-01	0	159	18,191	73.0	0.5	N/A	0	0	N/A	
09/18/09	UWF24090918-02	0	127	18,319	75.7	0.4	N/A	0	0	N/A	
09/18/09	UWH30090918-00	0	38	18,357	71.1	0.3	N/A	0	0	N/A	
09/18/09	UWH30090918-01	0	50	18,407	86.6	0.4	N/A	0	0	N/A	
09/18/09	UWH30090918-03	0	50	18,457	81.1	0.4	N/A	0	0	N/A	
09/18/09	UWH30090918-04	0	13	18,470	81.6	0.1	N/A	0	0	N/A	
09/18/09	UWH30090918-05	0	88	18,558	81.3	0.7	N/A	0	0	N/A	
09/18/09	UWH30090918-06	0	25	18,583	84.4	0.2	N/A	0	0	N/A	
09/18/09	UWH30090918-02	0	50	18,633	77.5	0.4	N/A	0	0	N/A	
09/19/09	UWE24090919-00	0	265	18,898	71.1	0.7	N/A	0	0	N/A	
09/21/09	UWF24090921-00	0	159	19,057	70.4	0.5	N/A	0	0	N/A	
09/21/09	UWH30090921-00	0	113	19,170	82.8	0.9	N/A	0	0	N/A	
09/21/09	UWH30090921-01	0	38	19,208	90.7	0.3	N/A	0	0	N/A	
09/21/09	UWH30090921-02	0	63	19,271	75.4	0.5	N/A	0	0	N/A	
09/21/09	UWH30090921-03	0	13	19,284	76.5	0.1	N/A	0	0	N/A	
09/21/09	UWI25090921-00	0	363	19,647	74.1	0.7	N/A	0	0	N/A	
09/21/09	UWE24090921-00	1	113	19,760	73.3	0.3	7	0	0	N/A	
09/22/09	UWH32090922-00	0	241	20,001	80.0	0.6	N/A	0	0	N/A	
09/22/09	UWH31090922-00	1	165	20,166	79.1	0.5	7	0	0	N/A	
09/22/09	UWF24090922-00	0	127	20,294	70.6	0.4	N/A	0	0	N/A	
09/22/09	UWE24090922-01	0	80	20,374	76.4	0.2	N/A	0	0	N/A	
09/22/09	UWI25090922-00	0	208	20,582	90.1	0.4	N/A	0	0	N/A	
09/22/09	UWH32090922-01	0	128	20,710	76.6	0.6	N/A	0	0	N/A	
09/22/09	UWF24090921-01	1	321	21,031	70.4	0.8	7	0	0	N/A	3
09/22/09	UWE24090922-00	0	159	21,190	77.6	0.5	N/A	0	0	N/A	
09/23/09	UWH31090923-00	0	231	21,421	75.0	0.7	N/A	0	0	N/A	
09/23/09	UWH31090923-01	1	198	21,619	82.6	0.6	34	0	0	N/A	
09/23/09	UWH31090923-02	0	198	21,817	78.6	0.6	N/A	0	0	N/A	
09/23/09	UWH32090923-00	0	201	22,018	70.6	0.5	N/A	0	0	N/A	3
09/23/09	UWH32090923-01	0	201	22,219	75.6	0.5	N/A	0	0	N/A	
09/23/09	UWH32090923-02	0	121	22,339	72.9	0.3	N/A	0	0	N/A	
09/23/09	UWF24090923-00	1	241	22,580	70.1	0.6	34	0	0	N/A	
09/24/09	UWE24090923-00	1	131	22,711	72.6	0.4	34	0	0	N/A	3
09/24/09	UWE24090924-00	0	196	22,906	72.1	0.6	N/A	0	0	N/A	
09/24/09	UWF24090924-00	1	133	23,039	72.8	0.5	34	0	0	N/A	
09/24/09	UWD20090924-00	0	127	23,166	71.1	0.4	N/A	0	0	N/A	
09/24/09	UWE24090924-01	0	196	23,362	74.9	0.6	N/A	0	0	N/A	
09/24/09	UWF24090924-01	0	159	23,521	81.1	0.6	N/A	0	0	N/A	
09/24/09	UWH32090924-00	0	321	23,843	72.2	0.8	N/A	0	0	N/A	
09/25/09	UWH31090925-00	1	231	24,074	78.3	0.7	34	0	0	N/A	
09/25/09	UWH32090925-00	0	241	24,315	78.1	0.6	N/A	0	0	N/A	
09/25/09	UWE24090925-00	0	186	24,500	70.7	0.7	N/A	0	0	N/A	
09/25/09	UWH31090925-01	1	165	24,665	82.9	0.5	34	0	0	N/A	
09/25/09	UWF24090925-00	0	159	24,824	73.1	0.6	N/A	0	0	N/A	
09/25/09	UWF24090925-01	1	106	24,931	70.1	0.4	34	0	0	N/A	
09/25/09	UWE24090925-01	0	131	25,061	72.4	0.4	N/A	0	0	N/A	
09/28/09	UWI30090928-00	0	363	25,424	82.0	0.7	N/A	0	0	N/A	
09/28/09	UWI25090928-00	0	415	25,839	89.8	0.8	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

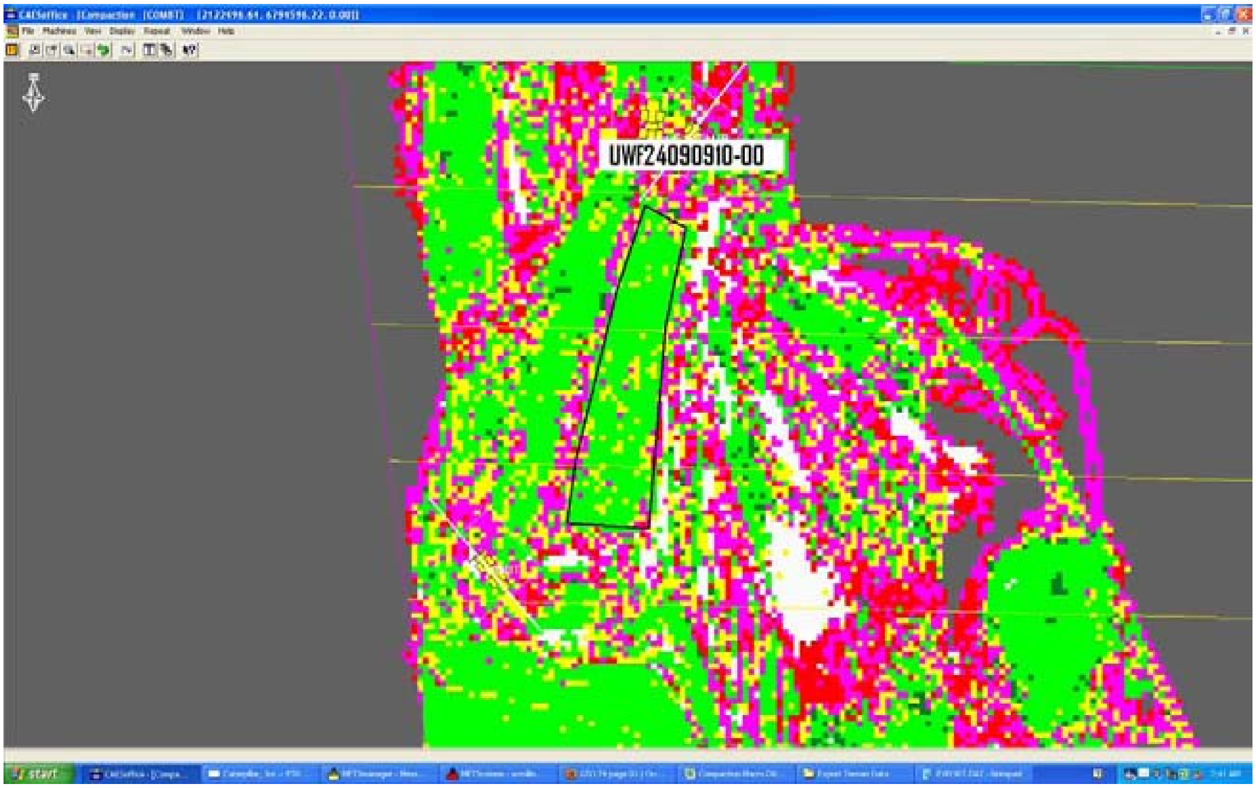
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd³)	Cumulative Quantity Approved (yd³)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
09/28/09	UWG24090928-00	0	198	26,037	80.8	0.5	N/A	0	0	N/A	
09/28/09	UWI30090928-01	1	363	26,399	77.5	0.7	7	0	0	N/A	
09/28/09	UWG24090928-01	0	158	26,557	80.3	0.4	N/A	0	0	N/A	
09/28/09	UWF24090928-00	0	158	26,715	74.6	0.5	N/A	0	0	N/A	
09/28/09	UWH31090928-00	1	99	26,814	70.2	0.3	34	0	0	N/A	
09/29/09	UWI25090929-00	0	311	27,126	73.8	0.6	N/A	0	0	N/A	
09/29/09	UWE24090929-00	0	231	27,357	89.9	0.7	N/A	0	0	N/A	
09/29/09	UWE24090929-01	0	198	27,555	87.4	0.6	N/A	0	0	N/A	
09/29/09	UWH32090929-00	0	149	27,705	72.3	0.6	N/A	0	0	N/A	
09/29/09	UWF24090929-00	0	113	27,818	77.8	0.6	N/A	0	0	N/A	
09/29/09	UWF24090929-01	1	95	27,913	88.3	0.5	34	0	0	N/A	
09/29/09	UWD20090929-00	0	311	28,224	70.1	0.7	N/A	0	0	N/A	
09/29/09	UWH31090929-00	0	198	28,422	79.8	0.6	N/A	0	0	N/A	
09/30/09	UWC25090930-00	1	277	28,699	93.8	0.8	34	0	0	N/A	
09/30/09	UWD20090930-00	0	33	28,732	70.1	0.1	N/A	0	0	N/A	
09/30/09	UWC25090930-01	0	243	28,974	88.9	0.7	N/A	0	0	N/A	
09/30/09	UWE24090930-00	0	198	29,173	76.2	0.6	N/A	0	0	N/A	
09/30/09	UWF24090930-00	0	113	29,286	78.9	0.6	N/A	0	0	N/A	
09/30/09	UWI25090930-00	0	363	29,650	80.0	0.7	N/A	0	0	N/A	
09/30/09	UWG24090930-00	0	198	29,847	76.6	0.5	N/A	0	0	N/A	
09/30/09	UWE24090930-01	1	132	29,980	82.3	0.4	34	0	0	N/A	
09/30/09	UWF24090930-01	0	95	30,074	80.4	0.5	N/A	0	0	N/A	
09/30/09	UWI30090930-00	0	207	30,281	82.7	0.4	N/A	0	0	N/A	
09/30/09	UWG24090930-01	0	198	30,479	74.5	0.5	N/A	0	0	N/A	
09/30/09	UWC25090930-02	0	104	30,583	84.6	0.3	N/A	0	0	N/A	
09/30/09	UWI30090930-01	0	207	30,790	81.1	0.4	N/A	0	0	N/A	
09/30/09	UWI25090930-01	0	260	31,050	77.2	0.5	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 78.0
Total Quantity Approved (yd^3) = 31,050
Total # of Nuclear Density Gauge Tests = 5
Total # of Moisture Tests = 37
Quantity per Moisture Test (yd^3) = 839
Total Average Thickness (ft) = 0.5

1. Lift was approved using a nuclear density gauge and the Trimble survey system, due to the fact that the CAES system was down.
2. Lift UWF26 was split into two lifts: UWF26EAST and UWF26WEST. This is the reason for the Lift ID # being altered.
3. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the Lift ID #.

A2. RRM
Lift Approval Summary

CAES compaction screen example from September 2009. There are compaction screens 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.



A2. RRM
Lift Approval Summary

October 2009											
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 (%)	Notes
10/01/09	UWC25091001-00	0	210	210	79.1	0.6	N/A	0	0	N/A	
10/01/09	UWE24091001-00	0	156	366	75.8	0.5	N/A	0	0	N/A	
10/01/09	UWF24091001-00	1	146	512	78.7	0.5	34	0	0	N/A	
10/01/09	UWD20091001-00	0	132	644	75.3	0.4	N/A	0	0	N/A	
10/01/09	UWC25091001-01	0	175	819	90.3	0.5	N/A	0	0	N/A	
10/01/09	UWE24091001-01	1	218	1,037	70.6	0.7	34	0	0	N/A	
10/01/09	UWF24091001-01	1	146	1,183	70.7	0.5	34	0	0	N/A	
10/02/09	UWD20091002-00	0	143	1,325	70.9	0.3	N/A	0	0	N/A	
10/02/09	UWC25091002-00	0	75	1,400	70.2	0.4	N/A	0	0	N/A	
10/02/09	UWD26091002-00	0	113	1,513	94.2	0.6	N/A	0	0	N/A	
10/02/09	UWF24091002-00	2	197	1,710	75.3	0.6	7	0	0	N/A	
10/03/09	UWD26091003-01	0	94	1,804	91.9	0.5	N/A	0	0	N/A	
10/03/09	UWD26091003-00	1	94	1,898	95.1	0.5	34	0	0	N/A	
10/05/09	UWF24091005-00	1	131	2,030	73.6	0.4	34	0	0	N/A	
10/05/09	UWE24091002-00	0	218	2,248	77.4	0.7	N/A	0	0	N/A	1
10/05/09	UWD26091005-00	0	132	2,379	79.2	0.7	N/A	0	0	N/A	
10/05/09	UWD26091005-01	0	113	2,492	70.7	0.6	N/A	0	0	N/A	
10/06/09	UWD26091006-00	1	133	2,625	84.5	0.9	34	0	0	N/A	
10/06/09	UWC25091006-00	0	75	2,700	77.1	0.4	N/A	0	0	N/A	
10/06/09	UWE24091006-00	0	74	2,774	75.9	0.5	N/A	0	0	N/A	
10/06/09	UWF24091006-00	0	130	2,904	79.9	0.4	N/A	0	0	N/A	
10/06/09	UWF24091006-01	1	249	3,153	79.2	0.8	34	0	0	N/A	
10/06/09	UWE24091006-01	0	104	3,256	73.3	0.7	N/A	0	0	N/A	
10/06/09	UWF24091006-02	1	187	3,443	72.6	0.6	34	0	0	N/A	
10/07/09	UWF24091007-00	0	149	3,593	71.7	0.5	N/A	0	0	N/A	
10/07/09	UWI30091007-00	1	413	4,006	95.6	0.8	34	0	0	N/A	
10/07/09	UWI25091007-00	0	208	4,214	83.0	0.4	N/A	0	0	N/A	
10/07/09	UWH31091007-00	0	264	4,477	73.6	0.8	N/A	0	0	N/A	
10/07/09	UWH32091007-00	0	174	4,651	75.0	0.7	N/A	0	0	N/A	
10/08/09	UWI30091008-00	0	363	5,014	84.7	0.7	N/A	0	0	N/A	
10/08/09	UWH32091008-00	0	124	5,138	82.7	0.5	N/A	0	0	N/A	
10/08/09	UWH31091008-00	1	202	5,340	70.1	0.6	34	0	0	N/A	
10/08/09	UWF24091007-01	1	258	5,598	71.9	0.5	34	0	0	N/A	1
10/08/09	UWI25091008-00	0	208	5,806	85.5	0.4	N/A	0	0	N/A	
10/08/09	UWH31091008-01	0	269	6,075	76.5	0.8	N/A	0	0	N/A	
10/08/09	UWH32091008-01	1	174	6,249	75.0	0.7	34	0	0	N/A	
10/09/09	UWH31091009-00	0	168	6,418	83.5	0.5	N/A	0	0	N/A	
10/09/09	UWH32091009-02	0	199	6,617	73.4	0.8	N/A	0	0	N/A	
10/09/09	UWH32091009-00	0	75	6,691	71.4	0.3	N/A	0	0	N/A	
10/09/09	UWI30091009-00	0	427	7,118	82.8	0.7	N/A	0	0	N/A	
10/09/09	UWH31091009-01	0	269	7,388	84.7	0.8	N/A	0	0	N/A	
10/09/09	UWH32091009-01	0	149	7,537	78.9	0.6	N/A	0	0	N/A	
10/09/09	UWI25091009-00	1	311	7,848	77.3	0.6	34	0	0	N/A	
10/09/09	UWH31091009-02	1	202	8,050	74.4	0.6	34	0	0	N/A	
10/09/09	UWF24091009-00	0	44	8,095	70.2	0.1	N/A	0	0	N/A	
10/09/09	UWE24091009-00	0	118	8,213	75.6	0.8	N/A	0	0	N/A	
10/12/09	UWH31091012-01	0	207	8,420	83.7	0.6	N/A	0	0	N/A	
10/12/09	UWH31091010-00	0	275	8,695	77.4	0.8	N/A	0	0	N/A	1

A2. RRM
Lift Approval Summary

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 (%)	Notes
10/12/09	UWI25091010-00	0	156	8,851	70.8	0.3	N/A	0	0	N/A	1
10/12/09	UWI30091009-01	0	202	9,053	80.9	0.6	N/A	0	0	N/A	1
10/12/09	UWH32091010-00	1	124	9,177	85.3	0.5	34	0	0	N/A	
10/12/09	UWH31091012-00	0	303	9,480	82.4	0.9	N/A	0	0	N/A	
10/12/09	UWH32091012-00	0	199	9,679	81.2	0.8	N/A	0	0	N/A	
10/12/09	UWD29091012-00	0	4	9,683	80.2	0.1	N/A	0	0	N/A	
10/12/09	UWH32091012-01	1	149	9,832	70.0	0.6	34	0	0	N/A	
10/12/09	UWD29091012-01	0	17	9,850	80.2	0.4	N/A	0	0	N/A	
10/12/09	UWE24091012-00	0	104	9,953	80.8	0.7	N/A	0	0	N/A	
10/13/09	UWH31091013-00	0	241	10,194	86.0	0.7	N/A	0	0	N/A	
10/13/09	UWH32091013-03	1	149	10,343	82.1	0.6	34	0	0	N/A	
10/13/09	UWH21091013-00	0	339	10,682	76.1	0.8	N/A	0	0	N/A	
10/13/09	UWH31091013-02	0	207	10,888	75.7	0.6	N/A	0	0	N/A	
10/13/09	UWH31091013-01	0	207	11,095	80.9	0.6	N/A	0	0	N/A	
10/13/09	UWH32091013-00	0	149	11,244	70.8	0.6	N/A	0	0	N/A	
10/13/09	UWI30091013-00	0	610	11,854	80.0	1.0	N/A	0	0	N/A	
10/13/09	UWH32091013-01	0	124	11,979	86.6	0.5	N/A	0	0	N/A	
10/13/09	UWD29091013-00	0	26	12,004	70.3	0.6	N/A	0	0	N/A	
10/13/09	UWH32091013-02	0	99	12,104	71.1	0.4	N/A	0	0	N/A	
10/13/09	UWI25091013-00	0	363	12,467	74.1	0.7	N/A	0	0	N/A	
10/13/09	UWI30091013-01	0	202	12,669	85.1	0.6	N/A	0	0	N/A	
10/13/09	UWH31091013-03	1	172	12,841	77.4	0.5	34	0	0	N/A	
10/13/09	UWH32091013-04	0	124	12,966	80.3	0.5	N/A	0	0	N/A	
10/14/09	UWE24091014-00	0	73	13,038	70.9	0.5	N/A	0	0	N/A	
10/14/09	UWI30091014-02	1	101	13,139	78.0	0.3	34	0	0	N/A	
10/14/09	UWH21091014-00	0	212	13,351	71.2	0.5	N/A	0	0	N/A	
10/14/09	UWD29091014-00	0	4	13,355	76.9	0.1	N/A	0	0	N/A	
10/14/09	UWI30091014-01	0	67	13,423	75.9	0.2	N/A	0	0	N/A	
10/14/09	UWI30091014-00	0	236	13,658	81.7	0.7	N/A	0	0	N/A	
10/14/09	UWH32091014-02	0	114	13,772	76.6	0.6	N/A	0	0	N/A	
10/14/09	UWH32091014-01	0	95	13,867	72.3	0.5	N/A	0	0	N/A	
10/14/09	UWH32091014-00	0	114	13,981	73.9	0.6	N/A	0	0	N/A	
10/14/09	UWH31091014-02	0	175	14,156	79.2	0.6	N/A	0	0	N/A	
10/14/09	UWH31091014-01	0	205	14,361	71.4	0.7	N/A	0	0	N/A	
10/14/09	UWH31091014-00	0	175	14,536	75.0	0.6	N/A	0	0	N/A	
10/14/09	UWF24091013-00	0	260	14,796	70.7	0.6	N/A	0	0	N/A	1
10/19/09	UWH31091019-00	0	146	14,942	84.4	0.5	N/A	0	0	N/A	
10/19/09	UWD26091019-00	0	0	14,942	87.0	0.0	N/A	0	0	N/A	
10/20/09	UWH32091020-02	1	77	15,019	73.4	0.3	34	0	0	N/A	
10/20/09	UWH31091020-02	0	191	15,210	70.5	0.5	N/A	0	0	N/A	
10/20/09	UWH21091020-00	0	169	15,379	76.1	0.4	N/A	0	0	N/A	
10/20/09	UWH32091020-01	0	128	15,507	74.4	0.5	N/A	0	0	N/A	
10/20/09	UWH31091020-01	1	230	15,737	78.5	0.6	34	0	0	N/A	
10/20/09	UWI30091020-00	0	269	16,006	80.3	0.8	N/A	0	0	N/A	
10/20/09	UWH32091020-00	0	102	16,108	71.2	0.4	N/A	0	0	N/A	
10/20/09	UWH31091020-00	0	230	16,338	83.4	0.6	N/A	0	0	N/A	
10/20/09	UWD20091020-00	0	286	16,623	70.0	0.6	N/A	0	0	N/A	
10/20/09	UWH32091019-00	1	102	16,726	70.6	0.4	34	0	0	N/A	1
10/20/09	UWH31091020-03	0	115	16,840	77.9	0.3	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
10/21/09	UWH31091021-00	1	236	17,076	79.7	0.7	34	0	0	N/A	
10/21/09	UWH21091021-01	0	127	17,203	76.1	0.3	N/A	0	0	N/A	
10/21/09	UWD29091021-00	0	17	17,220	96.2	0.4	N/A	0	0	N/A	
10/21/09	UWI30091021-01	0	135	17,355	79.6	0.4	N/A	0	0	N/A	
10/21/09	UWH21091021-00	0	169	17,524	74.7	0.4	N/A	0	0	N/A	
10/21/09	UWH32091021-00	0	128	17,652	71.0	0.5	N/A	0	0	N/A	
10/21/09	UWI30091021-00	0	236	17,887	81.3	0.7	N/A	0	0	N/A	
10/21/09	UWH32091021-01	0	153	18,041	77.4	0.6	N/A	0	0	N/A	
10/21/09	UWH21091021-02	0	169	18,210	75.8	0.4	N/A	0	0	N/A	
10/21/09	UWH31091021-01	0	153	18,363	84.0	0.4	N/A	0	0	N/A	
10/21/09	UWH32091021-02	0	153	18,516	77.1	0.6	N/A	0	0	N/A	
10/22/09	UWI30091022-00	0	168	18,684	76.6	0.5	N/A	0	0	N/A	
10/22/09	UWH31091022-00	0	230	18,914	73.3	0.6	N/A	0	0	N/A	
10/22/09	UWI25091021-00	0	311	19,226	84.0	0.6	N/A	0	0	N/A	
10/22/09	UWI30091022-01	0	176	19,402	83.1	0.3	N/A	0	0	N/A	
10/22/09	UWH21091022-00	1	254	19,655	70.2	0.6	34	0	0	N/A	
10/22/09	UWJ28091022-00	0	27	19,683	77.1	0.1	N/A	0	0	N/A	
10/22/09	UWH32091022-01	1	128	19,810	84.9	0.5	34	0	0	N/A	
10/22/09	UWH31091022-01	0	268	20,078	84.7	0.7	N/A	0	0	N/A	
10/22/09	UWH32091022-00	0	153	20,231	70.4	0.6	N/A	0	0	N/A	
10/23/09	UWH31091023-02	0	124	20,355	81.4	0.5	N/A	0	0	N/A	
10/23/09	UWH32091023-02	0	158	20,512	83.9	0.6	N/A	0	0	N/A	
10/23/09	UWH31091022-02	1	148	20,661	71.1	0.6	34	0	0	N/A	1
10/23/09	UWH32091022-02	0	158	20,818	78.4	0.6	N/A	0	0	N/A	1
10/23/09	UWH21091023-00	0	56	20,874	79.0	0.5	N/A	0	0	N/A	
10/23/09	UWI25091023-00	0	467	21,341	96.4	0.9	N/A	0	0	N/A	
10/23/09	UWI30091023-00	0	516	21,857	87.0	0.9	N/A	0	0	N/A	
10/23/09	UWH31091023-00	0	131	21,989	77.8	0.5	N/A	0	0	N/A	
10/23/09	UWH32091023-00	0	148	22,137	80.2	0.6	N/A	0	0	N/A	
10/23/09	UWI30091023-01	0	104	22,241	80.3	0.2	N/A	0	0	N/A	
10/23/09	UWH21091023-01	0	45	22,285	70.8	0.4	N/A	0	0	N/A	
10/23/09	UWI30091023-02	0	156	22,441	82.5	0.3	N/A	0	0	N/A	
10/23/09	UWH31091023-01	1	124	22,565	73.5	0.5	34	0	0	N/A	
10/23/09	UWH32091023-01	0	158	22,722	74.7	0.6	N/A	0	0	N/A	
10/24/09	UWH31091024-00	0	173	22,895	76.9	0.7	N/A	0	0	N/A	
10/24/09	UWH32091024-00	1	158	23,053	70.2	0.6	34	0	0	N/A	
10/24/09	UWD29091023-00	0	17	23,070	92.3	0.4	N/A	0	0	N/A	
10/24/09	UWI30091024-00	1	413	23,482	N/A	0.7	34	1	0	96.3	2
10/24/09	UWI30091024-01	0	413	23,895	70.3	0.7	N/A	0	0	N/A	
10/24/09	UWH21091024-00	1	56	23,951	N/A	0.5	34	1	1	98.0	2
10/24/09	UWD29091024-00	0	21	23,972	96.2	0.5	N/A	0	0	N/A	
10/24/09	UWD29091024-01	0	13	23,985	100.0	0.3	N/A	0	0	N/A	
10/24/09	UWD29091024-02	0	9	23,994	82.7	0.2	N/A	0	0	N/A	
10/24/09	UWD29091024-03	0	17	24,011	70.1	0.4	N/A	0	0	N/A	
10/24/09	UWI25091024-00	1	415	24,426	95.8	0.8	34	0	0	N/A	
10/24/09	UWI25091024-01	0	260	24,686	84.8	0.5	N/A	0	0	N/A	
10/26/09	UWI30091026-00	0	472	25,157	91.2	0.8	N/A	0	0	N/A	
10/26/09	UWH21091024-01	0	45	25,202	73.7	0.4	N/A	0	0	N/A	1
10/26/09	UWH32091024-01	0	131	25,333	74.4	0.5	N/A	0	0	N/A	1
10/26/09	UWC24091026-00	0	87	25,420	75.6	0.8	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
10/26/09	UWH21091026-00	0	78	26,167	81.3	0.7	N/A	0	0	N/A	
10/26/09	UWH32091026-00	0	184	26,351	73.8	0.7	N/A	0	0	N/A	
10/27/09	UWH32091027-00	0	105	26,456	77.3	0.4	N/A	0	0	N/A	
10/27/09	UWG20091027-00	0	401	26,857	86.3	0.6	N/A	0	0	N/A	
10/27/09	UWH21091027-00	0	52	26,909	89.2	0.5	N/A	0	0	N/A	
10/27/09	UWH32091027-01	1	79	26,988	70.0	0.3	34	0	0	N/A	
10/27/09	UWI25091027-01	0	114	27,102	90.5	0.6	N/A	0	0	N/A	
10/27/09	UWH21091027-01	0	52	27,154	94.8	0.5	N/A	0	0	N/A	
10/27/09	UWG20091027-01	0	468	27,622	85.3	0.7	N/A	0	0	N/A	
10/27/09	UWI30091027-02	0	221	27,843	86.3	0.5	N/A	0	0	N/A	
10/27/09	UWG20091027-02	0	401	28,244	74.6	0.6	N/A	0	0	N/A	
10/27/09	UWI25091027-00	0	171	28,415	88.1	0.9	N/A	0	0	N/A	
10/27/09	UWI30091027-00	0	354	28,769	90.1	0.8	N/A	0	0	N/A	
10/27/09	UWI30091027-01	0	133	28,901	77.9	0.3	N/A	0	0	N/A	
10/27/09	UWH31091024-01	0	148	29,049	70.7	0.6	N/A	0	0	N/A	1
10/27/09	UWI25091026-00	1	114	29,164	76.8	0.6	34	0	0	N/A	1
10/27/09	UWH31091027-00	0	148	29,312	74.1	0.6	N/A	0	0	N/A	
10/28/09	UWI30091028-00	0	354	29,665	76.3	0.8	N/A	0	0	N/A	
10/28/09	UWH21091028-00	1	31	29,697	78.4	0.3	34	0	0	N/A	
10/28/09	UWI25091028-00	0	76	29,773	75.6	0.4	N/A	0	0	N/A	
10/28/09	UWI25091028-01	0	95	29,868	88.6	0.5	N/A	0	0	N/A	
10/28/09	UWI24091028-00	0	17	29,885	92.8	0.1	N/A	0	0	N/A	
10/28/09	UWE21091028-00	0	4	29,889	82.3	0.1	N/A	0	0	N/A	
10/28/09	UWE24091020-00	0	44	29,933	89.0	0.3	N/A	0	0	N/A	1
10/28/09	UWF24091020-00	1	89	30,021	70.2	0.2	34	0	0	N/A	1
10/28/09	UWG20091028-00	1	468	30,489	79.2	0.7	34	0	0	N/A	
10/28/09	UWH21091028-01	0	42	30,531	82.5	0.4	N/A	0	0	N/A	
10/28/09	UWI30091028-01	0	265	30,796	88.0	0.6	N/A	0	0	N/A	
10/28/09	UWD20091023-00	1	286	31,082	74.1	0.6	34	0	0	N/A	1
10/28/09	UWH32091028-00	0	158	31,239	74.0	0.6	N/A	0	0	N/A	
10/28/09	UWI30091028-02	0	133	31,372	88.1	0.3	N/A	0	0	N/A	
10/29/09	UWH31091029-00	1	148	31,520	78.0	0.6	34	0	0	N/A	
10/29/09	UWI30091029-00	0	0	31,520	87.5	0.0	N/A	0	0	N/A	
10/29/09	UWD20091028-00	0	293	31,813	81.7	0.6	N/A	0	0	N/A	1
10/29/09	UWI30091029-01	0	44	31,857	91.9	0.1	N/A	0	0	N/A	
10/29/09	UWH21091028-02	1	15	31,872	71.7	0.2	34	1	0	92.0	1
10/29/09	UWI30091029-02	0	373	32,245	85.2	0.6	N/A	0	0	N/A	
10/29/09	UWG20091029-00	0	468	32,713	73.5	0.7	N/A	0	0	N/A	
10/29/09	UWH32091029-00	0	79	32,792	72.1	0.3	N/A	0	0	N/A	
10/29/09	UWG20091029-01	1	468	33,260	70.6	0.7	34	0	0	N/A	
10/29/09	UWH35091029-00	1	18	33,278	N/A	0.5	N/A	1	0	92.2	
10/29/09	UWH35091029-01	2	22	33,300	N/A	0.6	N/A	1	0	95.2	
10/29/09	UWH35091029-02	3	18	33,318	N/A	0.5	N/A	1	0	98.5	
10/29/09	UWH35091029-03	4	29	33,348	N/A	0.8	N/A	1	0	32.9	
10/29/09	UWH35091029-04	4	26	33,373	N/A	0.7	N/A	1	0	90.6	
10/29/09	UWH24091029-00	0	34	33,407	76.5	0.4	N/A	0	0	N/A	
10/30/09	UWI30091030-01	0	45	33,452	78.3	0.7	N/A	0	0	N/A	
10/30/09	UWH24091030-03	0	51	33,503	74.5	0.5	N/A	0	0	N/A	
10/30/09	UWH24091030-01	0	82	33,585	87.6	0.8	N/A	0	0	N/A	
10/30/09	UWG20091030-00	1	468	34,053	80.1	0.7	34	0	0	N/A	

A2. RRM
Lift Approval Summary

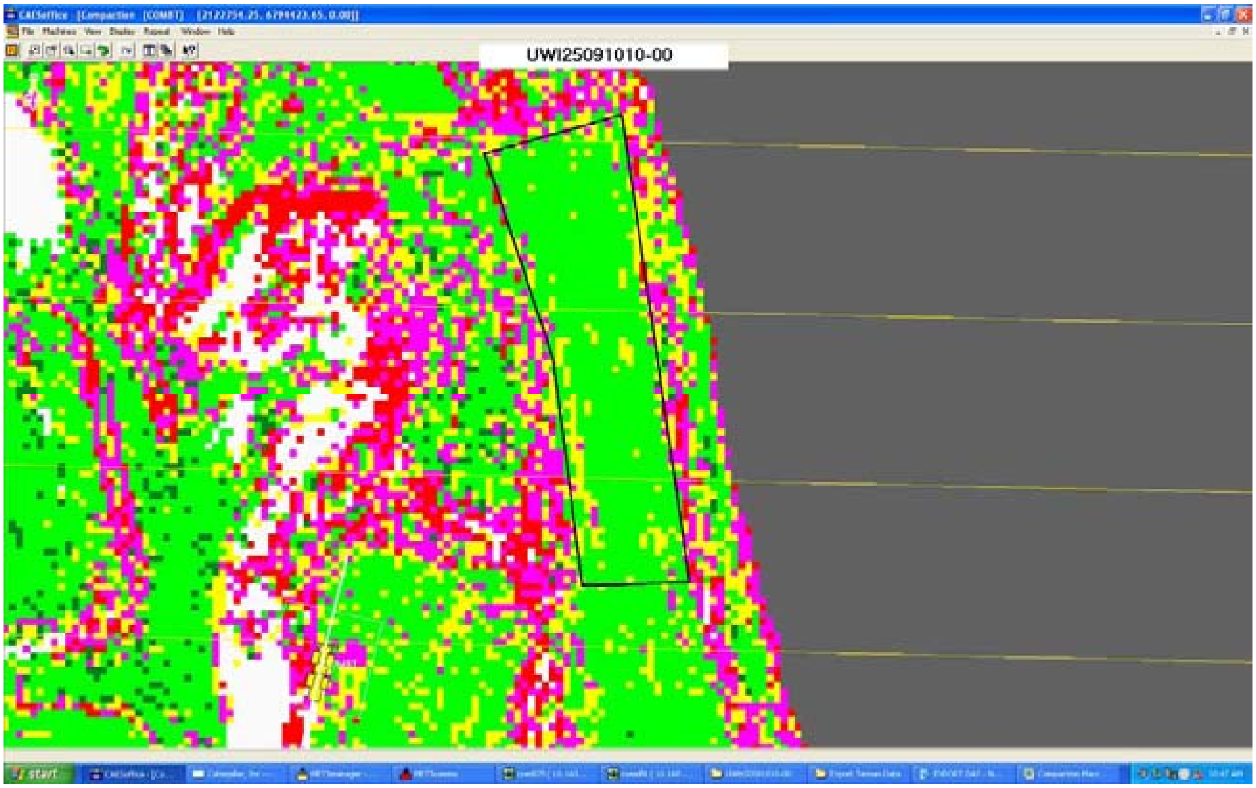
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
10/30/09	UWI30091030-02	0	6	34,059	79.3	0.1	N/A	0	0	N/A	
10/30/09	UWI30091030-03	0	32	34,091	80.0	0.5	N/A	0	0	N/A	
10/30/09	UWI30091030-04	0	6	34,098	70.9	0.1	N/A	0	0	N/A	
10/30/09	UWH24091030-00	0	41	34,139	79.9	0.4	N/A	0	0	N/A	
10/30/09	UWH31091030-00	0	173	34,312	78.1	0.7	N/A	0	0	N/A	
10/30/09	UWI30091030-00	0	45	34,356	82.8	0.7	N/A	0	0	N/A	
10/30/09	UWH24091030-02	0	72	34,428	79.9	0.7	N/A	0	0	N/A	
10/30/09	UWG20091030-01	0	334	34,762	73.4	0.5	N/A	0	0	N/A	
10/30/09	UWI30091030-05	1	32	34,794	74.5	0.5	34	0	0	N/A	
10/30/09	UWH32091030-00	0	105	34,899	71.5	0.4	N/A	0	0	N/A	
10/31/09	UWH32091031-00	0	105	35,004	73.6	0.4	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 79.0
Total Quantity Approved (yd^3) = 35,004
Total # of Nuclear Density Gauge Tests = 7
Total # of Moisture Tests = 59
Quantity per Moisture Test (yd^3) = 593
Total Average Thickness (ft) = 0.5

1. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the Lift ID #.
2. Lift was approved using a nuclear density gauge and the Trimble survey system, due to the fact that the CAES system was down.

A2. RRM
Lift Approval Summary

CAES compaction screen example from October 2009. There are compaction screens 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.



A2. RRM
Lift Approval Summary

November 2009											
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 (%)	Notes
11/02/09	UWG20091031-00	1	458	458	79.3	0.7	34	0	0	N/A	1
11/02/09	UWI30091102-00	0	44	502	73.3	0.7	N/A	0	0	N/A	
11/02/09	UWH24091102-00	0	72	574	74.3	0.7	N/A	0	0	N/A	
11/02/09	UWG20091102-00	0	327	901	70.3	0.5	N/A	0	0	N/A	
11/02/09	UWH24091102-01	0	21	922	74.6	0.2	N/A	0	0	N/A	
11/02/09	UWI30091102-01	0	1,583	2,505	84.8	25.0	N/A	0	0	N/A	
11/02/09	UWH32091102-00	0	131	2,636	82.8	0.5	N/A	0	0	N/A	
11/03/09	UWI30091103-00	1	340	2,976	81.7	0.7	34	0	0	N/A	
11/03/09	UWH32091102-01	0	105	3,082	77.3	0.4	N/A	0	0	N/A	1
11/03/09	UWI30091103-01	0	292	3,373	75.3	0.6	N/A	0	0	N/A	
11/03/09	UWG20091103-00	1	372	3,745	72.3	0.6	34	0	0	N/A	
11/03/09	UWH24091103-00	0	236	3,981	85.1	0.7	N/A	0	0	N/A	
11/03/09	UWH32091103-00	0	44	4,025	77.0	0.4	N/A	0	0	N/A	
11/03/09	UWI30091103-02	0	292	4,317	74.7	0.6	N/A	0	0	N/A	
11/04/09	UWG20091104-00	1	372	4,689	79.8	0.6	34	0	0	N/A	
11/04/09	UWI30091103-03	0	292	4,981	77.1	0.6	N/A	0	0	N/A	1
11/04/09	UWH24091104-00	1	202	5,183	71.5	0.6	34	0	0	N/A	
11/04/09	UWG27091104-01	1	99	5,281	71.1	0.5	34	0	0	N/A	
11/04/09	UWI30091104-03	0	135	5,416	81.4	0.4	N/A	0	0	N/A	
11/04/09	UWH24091104-02	0	168	5,585	75.8	0.5	N/A	0	0	N/A	
11/04/09	UWI30091104-02	0	146	5,730	78.7	0.3	N/A	0	0	N/A	
11/04/09	UWH32091104-01	0	85	5,815	76.9	0.3	N/A	0	0	N/A	
11/04/09	UWI30091104-01	0	169	5,984	76.8	0.5	N/A	0	0	N/A	
11/04/09	UWH24091104-01	0	202	6,186	70.9	0.6	N/A	0	0	N/A	
11/04/09	UWH31091030-00	0	217	6,403	78.1	0.8	N/A	0	0	N/A	1
11/04/09	UWI30091104-00	0	169	6,572	79.0	0.5	N/A	0	0	N/A	
11/04/09	UWH32091104-00	0	169	6,741	70.1	0.6	N/A	0	0	N/A	
11/04/09	UWG27091104-00	0	79	6,820	84.6	0.4	N/A	0	0	N/A	
11/05/09	UWG27091105-00	0	79	6,899	74.5	0.4	N/A	0	0	N/A	
11/05/09	UWG27091105-01	0	81	6,980	75.5	0.6	N/A	0	0	N/A	
11/05/09	UWG27091105-02	0	41	7,021	72.8	0.3	N/A	0	0	N/A	
11/05/09	UWI30091105-00	1	169	7,190	81.0	0.5	34	0	0	N/A	
11/05/09	UWH32091104-02	0	169	7,359	71.8	0.6	N/A	0	0	N/A	
11/05/09	UWH31091104-00	0	217	7,576	72.1	0.8	N/A	0	0	N/A	
11/05/09	UWG20091105-00	0	248	7,824	79.2	0.4	N/A	0	0	N/A	
11/05/09	UWI30091105-01	0	169	7,993	78.9	0.5	N/A	0	0	N/A	
11/05/09	UWG27091105-03	0	81	8,074	72.8	0.6	N/A	0	0	N/A	
11/05/09	UWH31091105-00	0	109	8,183	71.8	0.4	N/A	0	0	N/A	
11/05/09	UWG25091105-00	0	83	8,266	72.2	0.5	N/A	0	0	N/A	
11/05/09	UWG27091105-04	0	81	8,347	71.0	0.6	N/A	0	0	N/A	
11/05/09	UWH32091105-00	0	56	8,404	75.7	0.2	N/A	0	0	N/A	
11/05/09	UWG27091105-05	0	41	8,444	75.5	0.3	N/A	0	0	N/A	
11/05/09	UWI30091105-02	0	135	8,579	78.8	0.4	N/A	0	0	N/A	
11/05/09	UWG27091105-06	1	68	8,647	83.3	0.5	34	0	0	N/A	
11/05/09	UWG27091105-07	0	41	8,688	72.9	0.3	N/A	0	0	N/A	
11/06/09	UWI30091106-01	0	135	8,823	72.5	0.4	N/A	0	0	N/A	
11/06/09	UWI30091106-00	0	169	8,992	72.7	0.5	N/A	0	0	N/A	
11/06/09	UWG27091106-00	0	41	9,032	71.5	0.3	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd³)	Cumulative Quantity Approved (yd³)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
11/06/09	UWG25091106-00	0	100	9,132	71.3	0.6	N/A	0	0	N/A	
11/06/09	UWG20091106-00	0	372	9,504	70.5	0.6	N/A	0	0	N/A	
11/06/09	UWH31091106-00	0	82	9,586	70.0	0.3	N/A	0	0	N/A	
11/06/09	UWG27091106-01	0	41	9,626	82.3	0.3	N/A	0	0	N/A	
11/06/09	UWH31091106-01	0	54	9,681	86.6	0.2	N/A	0	0	N/A	
11/06/09	UWG25091106-01	0	95	9,775	75.6	0.7	N/A	0	0	N/A	
11/06/09	UWH32091106-00	1	113	9,888	79.5	0.4	34	0	0	N/A	
11/06/09	UWI30091106-02	0	68	9,956	80.6	0.2	N/A	0	0	N/A	
11/06/09	UWH32091106-01	0	85	10,040	70.9	0.3	N/A	0	0	N/A	
11/06/09	UWG25091106-02	0	100	10,140	77.1	0.6	N/A	0	0	N/A	
11/06/09	UWG27091106-02	0	81	10,221	75.2	0.6	N/A	0	0	N/A	
11/06/09	UWG25091106-03	0	116	10,337	70.0	0.7	N/A	0	0	N/A	
11/06/09	UWI30091106-03	0	203	10,540	85.6	0.6	N/A	0	0	N/A	
11/07/09	UWH32091107-00	0	169	10,709	73.0	0.6	N/A	0	0	N/A	
11/07/09	UWI30091107-00	1	135	10,844	81.0	0.4	34	0	0	N/A	
11/07/09	UWH24091107-00	0	203	11,047	82.1	0.6	N/A	0	0	N/A	
11/07/09	UWG27091107-00	0	81	11,129	76.4	0.6	N/A	0	0	N/A	
11/09/09	UWG25091109-04	0	83	11,212	72.1	0.5	N/A	0	0	N/A	
11/09/09	UWG27091109-03	0	261	11,473	74.3	0.6	N/A	0	0	N/A	
11/09/09	UWH24091109-03	0	237	11,710	72.0	0.6	N/A	0	0	N/A	
11/09/09	UWG25091109-00	0	100	11,810	78.4	0.6	N/A	0	0	N/A	
11/09/09	UWG27091109-00	1	41	11,850	84.2	0.3	34	0	0	N/A	
11/09/09	UWG25091109-01	0	100	11,950	79.5	0.6	N/A	0	0	N/A	
11/09/09	UWG27091109-01	0	55	12,005	78.6	0.4	N/A	0	0	N/A	
11/09/09	UWH24091109-00	0	158	12,163	73.7	0.4	N/A	0	0	N/A	
11/09/09	UWG25091109-02	0	193	12,356	73.1	0.4	N/A	0	0	N/A	
11/09/09	UWH24091109-01	0	198	12,554	80.7	0.5	N/A	0	0	N/A	
11/09/09	UWI30091109-00	0	175	12,729	73.9	0.6	N/A	0	0	N/A	
11/09/09	UWH24091109-02	0	158	12,887	77.7	0.4	N/A	0	0	N/A	
11/09/09	UWG27091109-02	0	174	13,061	77.9	0.4	N/A	0	0	N/A	
11/09/09	UWG25091109-03	0	193	13,254	78.3	0.4	N/A	0	0	N/A	
11/10/09	UWI30091110-02	0	205	13,459	70.8	0.7	N/A	0	0	N/A	
11/10/09	UWG27091110-00	1	54	13,513	73.5	0.4	27	0	0	N/A	
11/10/09	UWI30091110-00	0	117	13,630	72.9	0.4	N/A	0	0	N/A	
11/10/09	UWG25091109-05	0	241	13,871	78.9	0.5	N/A	0	0	N/A	1
11/10/09	UWH24091110-00	0	198	14,069	71.8	0.5	N/A	0	0	N/A	
11/10/09	UWG25091110-00	0	193	14,262	75.4	0.4	N/A	0	0	N/A	
11/10/09	UWI30091110-01	0	58	14,321	78.5	0.2	N/A	0	0	N/A	
11/10/09	UWH24091110-01	1	158	14,479	79.2	0.4	34	0	0	N/A	
11/10/09	UWG25091110-01	0	241	14,720	72.5	0.5	N/A	0	0	N/A	
11/10/09	UWG27091110-01	0	306	15,026	75.8	0.7	N/A	0	0	N/A	
11/10/09	UWG25091110-02	1	289	15,316	71.2	0.6	27	0	0	N/A	
11/10/09	UWH32091110-00	0	0	15,316	70.7	0.0	N/A	0	0	N/A	
11/10/09	UWG27091110-02	0	131	15,447	71.1	0.3	N/A	0	0	N/A	
11/11/09	UWG25091111-00	0	193	15,640	77.6	0.4	N/A	0	0	N/A	
11/11/09	UWI30091111-00	0	88	15,728	71.7	0.3	N/A	0	0	N/A	
11/11/09	UWH32091111-00	0	197	15,925	71.8	0.7	N/A	0	0	N/A	
11/11/09	UWI30091111-03	1	88	16,013	73.3	0.3	27	0	0	N/A	
11/11/09	UWH32091111-01	0	141	16,154	71.6	0.5	N/A	0	0	N/A	
11/11/09	UWI30091111-01	0	146	16,300	71.5	0.5	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
11/11/09	UWH24091111-00	0	119	16,418	80.2	0.3	N/A	0	0	N/A	
11/11/09	UWG25091111-01	0	407	16,826	92.5	0.8	N/A	0	0	N/A	
11/11/09	UWI30091111-02	0	117	16,943	71.5	0.4	N/A	0	0	N/A	
11/11/09	UWH24091111-01	0	167	17,109	85.4	0.5	N/A	0	0	N/A	
11/11/09	UWG27091111-00	0	131	17,241	78.4	0.3	N/A	0	0	N/A	
11/11/09	UWG25091111-02	0	153	17,393	87.4	0.3	N/A	0	0	N/A	
11/12/09	UWI30091112-00	0	175	17,569	70.4	0.6	N/A	0	0	N/A	
11/12/09	UWG25091111-03	1	407	17,976	90.6	0.8	27	0	0	N/A	1
11/12/09	UWG27091112-02	1	306	18,282	72.1	0.7	27	0	0	N/A	
11/12/09	UWH32091112-00	0	141	18,423	72.0	0.5	N/A	0	0	N/A	
11/12/09	UWG27091111-01	0	219	18,642	81.7	0.5	N/A	0	0	N/A	1
11/12/09	UWH32091112-01	0	169	18,811	81.1	0.6	N/A	0	0	N/A	
11/12/09	UWI30091112-01	0	146	18,957	73.3	0.5	N/A	0	0	N/A	
11/12/09	UWH24091112-00	0	167	19,124	83.5	0.5	N/A	0	0	N/A	
11/12/09	UWG27091112-00	0	219	19,343	84.6	0.5	N/A	0	0	N/A	
11/12/09	UWG25091112-00	0	407	19,750	89.6	0.8	N/A	0	0	N/A	
11/12/09	UWH32091112-02	0	197	19,947	86.2	0.7	N/A	0	0	N/A	
11/12/09	UWG27091112-01	1	175	20,122	80.3	0.4	27	0	0	N/A	
11/12/09	UWE19091112-00	0	77	20,199	73.6	0.1	N/A	0	0	N/A	
11/12/09	UWG25091112-01	0	323	20,522	89.0	0.5	N/A	0	0	N/A	
11/13/09	UWH27091113-01	0	246	20,768	74.4	0.7	N/A	0	0	N/A	
11/13/09	UWG27091113-01	0	263	21,031	81.7	0.6	N/A	0	0	N/A	
11/13/09	UWG25091113-00	0	578	21,609	80.8	0.8	N/A	0	0	N/A	
11/13/09	UWG27091113-02	0	219	21,828	79.4	0.5	N/A	0	0	N/A	
11/13/09	UWG25091113-01	0	434	22,262	80.4	0.6	N/A	0	0	N/A	
11/13/09	UWH27091114-00	1	246	22,508	79.1	0.7	27	0	0	N/A	1
11/13/09	UWH27091113-00	0	246	22,754	70.1	0.7	N/A	0	0	N/A	
11/13/09	UWG27091113-00	0	131	22,885	71.8	0.3	N/A	0	0	N/A	
11/13/09	UWH22091113-00	0	274	23,159	75.1	0.5	N/A	0	0	N/A	
11/13/09	UWH22091113-01	0	328	23,487	83.9	0.6	N/A	0	0	N/A	
11/13/09	UWH22091113-02	0	164	23,651	88.6	0.3	N/A	0	0	N/A	
11/13/09	UWH27091113-02	0	141	23,792	75.7	0.4	N/A	0	0	N/A	
11/13/09	UWG25091113-02	0	506	24,298	85.9	0.7	N/A	0	0	N/A	
11/14/09	UWG27091113-03	0	175	24,473	73.4	0.4	N/A	0	0	N/A	1
11/14/09	UWH22091114-00	0	55	24,528	81.7	0.1	N/A	0	0	N/A	
11/16/09	UWG27091116-00	0	88	24,615	86.9	0.2	N/A	0	0	N/A	
11/16/09	UWH23091116-00	0	110	24,725	84.5	0.6	N/A	0	0	N/A	
11/16/09	UWG25091116-00	0	506	25,231	84.4	0.7	N/A	0	0	N/A	
11/16/09	UWH27091116-00	0	176	25,407	72.6	0.5	N/A	0	0	N/A	
11/16/09	UWH22091116-00	0	219	25,626	75.0	0.4	N/A	0	0	N/A	
11/16/09	UWG20091116-00	0	186	25,812	87.7	0.3	N/A	0	0	N/A	
11/16/09	UWG27091116-01	1	88	25,899	82.9	0.2	27	0	0	N/A	
11/16/09	UWG25091116-01	0	506	26,405	83.0	0.7	N/A	0	0	N/A	
11/16/09	UWH27091116-01	0	176	26,581	75.8	0.5	N/A	0	0	N/A	
11/16/09	UWH22091116-01	0	219	26,800	81.7	0.4	N/A	0	0	N/A	
11/17/09	UWG20091116-01	0	310	27,110	81.2	0.5	N/A	0	0	N/A	1
11/17/09	UWF26091116-00	1	298	27,408	90.0	0.8	34	0	0	N/A	
11/17/09	UWF27091117-00	0	218	27,626	77.6	0.6	N/A	0	0	N/A	
11/17/09	UWH28091116-00	0	119	27,745	80.4	0.5	N/A	0	0	N/A	
11/17/09	UWH28091117-01	0	74	27,818	73.7	0.3	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
11/17/09	UWI26091117-01	0	84	27,903	89.1	0.4	N/A	0	0	N/A	
11/17/09	UWG20091117-01	0	434	28,337	71.8	0.7	N/A	0	0	N/A	
11/17/09	UWI26091116-00	0	121	28,457	79.9	0.6	N/A	0	0	N/A	
11/17/09	UWI26091117-00	0	84	28,542	94.4	0.4	N/A	0	0	N/A	
11/17/09	UWH28091117-00	0	119	28,661	70.1	0.5	N/A	0	0	N/A	
11/17/09	UWH23091117-00	0	55	28,715	76.3	0.3	N/A	0	0	N/A	
11/17/09	UWF26091117-00	0	298	29,014	82.3	0.8	N/A	0	0	N/A	
11/17/09	UWF27091117-01	1	181	29,195	80.6	0.5	34	0	0	N/A	
11/17/09	UWG20091117-00	0	372	29,567	72.9	0.6	N/A	0	0	N/A	
11/18/09	UWH28091118-00	0	119	29,686	82.6	0.5	N/A	0	0	N/A	
11/18/09	UWI26091118-00	0	95	29,781	79.1	0.4	N/A	0	0	N/A	
11/18/09	UWH23091118-00	0	55	29,836	73.7	0.3	N/A	0	0	N/A	
11/18/09	UWF27091118-01	0	181	30,018	82.0	0.5	N/A	0	0	N/A	
11/18/09	UWF26091118-01	1	237	30,254	86.3	0.7	34	0	0	N/A	
11/18/09	UWG20091118-00	0	242	30,496	87.7	0.5	N/A	0	0	N/A	
11/18/09	UWF26091118-02	0	0	30,496	87.7	0.0	N/A	0	0	N/A	
11/18/09	UWF26091118-00	0	270	30,766	89.9	0.8	N/A	0	0	N/A	
11/18/09	UWF27091118-00	1	145	30,911	72.0	0.4	34	0	0	N/A	
11/18/09	UWH23091118-01	0	55	30,966	71.9	0.3	N/A	0	0	N/A	
11/18/09	UWI26091118-01	0	119	31,085	97.0	0.5	N/A	0	0	N/A	
11/18/09	UWH28091118-01	0	71	31,157	71.0	0.3	N/A	0	0	N/A	
11/19/09	UWF26091119-00	0	203	31,359	82.5	0.6	N/A	0	0	N/A	
11/19/09	UWF27091119-00	0	181	31,541	72.6	0.5	N/A	0	0	N/A	
11/19/09	UWG20091119-01	0	137	31,678	92.8	0.4	N/A	0	0	N/A	
11/19/09	UWH23091119-01	0	73	31,751	78.0	0.4	N/A	0	0	N/A	
11/19/09	UWF27091119-02	0	109	31,860	90.7	0.3	N/A	0	0	N/A	
11/19/09	UWF26091119-02	0	270	32,131	80.7	0.8	N/A	0	0	N/A	
11/19/09	UWG20091119-00	0	206	32,337	83.8	0.6	N/A	0	0	N/A	
11/19/09	UWI26091119-03	0	167	32,503	89.1	0.7	N/A	0	0	N/A	
11/19/09	UWH28091119-02	1	48	32,551	70.6	0.2	34	0	0	N/A	
11/19/09	UWI26091119-02	0	71	32,622	84.5	0.3	N/A	0	0	N/A	
11/19/09	UWI26091119-01	0	143	32,765	86.9	0.6	N/A	0	0	N/A	
11/19/09	UWH28091119-01	0	95	32,861	81.0	0.4	N/A	0	0	N/A	
11/19/09	UWG20091118-01	0	137	32,998	83.7	0.4	N/A	0	0	N/A	1
11/19/09	UWF26091119-01	0	135	33,133	82.9	0.4	N/A	0	0	N/A	
11/19/09	UWF27091119-01	0	181	33,315	78.2	0.5	N/A	0	0	N/A	
11/19/09	UWH28091119-00	1	119	33,433	89.6	0.5	25	0	0	N/A	
11/19/09	UWH23091119-00	0	73	33,507	83.2	0.4	N/A	0	0	N/A	
11/19/09	UWI26091119-00	0	143	33,650	86.7	0.6	N/A	0	0	N/A	
11/20/09	UWH28091120-02	0	24	33,673	75.4	0.1	N/A	0	0	N/A	
11/20/09	UWF26091120-01	0	270	33,944	94.7	0.8	N/A	0	0	N/A	
11/20/09	UWH28091120-01	0	143	34,086	74.5	0.6	N/A	0	0	N/A	
11/20/09	UWH23091119-02	1	91	34,178	75.7	0.5	34	0	0	N/A	1
11/20/09	UWF27091120-01	0	181	34,359	71.9	0.5	N/A	0	0	N/A	
11/20/09	UWF27091120-02	0	109	34,468	75.2	0.3	N/A	0	0	N/A	
11/20/09	UWF26091120-00	0	203	34,671	94.9	0.6	N/A	0	0	N/A	
11/20/09	UWH28091120-00	1	119	34,790	71.4	0.5	34	0	0	N/A	
11/20/09	UWF27091120-00	0	181	34,971	70.4	0.5	N/A	0	0	N/A	
11/20/09	UWG20091120-00	0	206	35,177	87.4	0.6	N/A	0	0	N/A	
11/20/09	UWH23091120-00	0	73	35,250	70.4	0.4	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

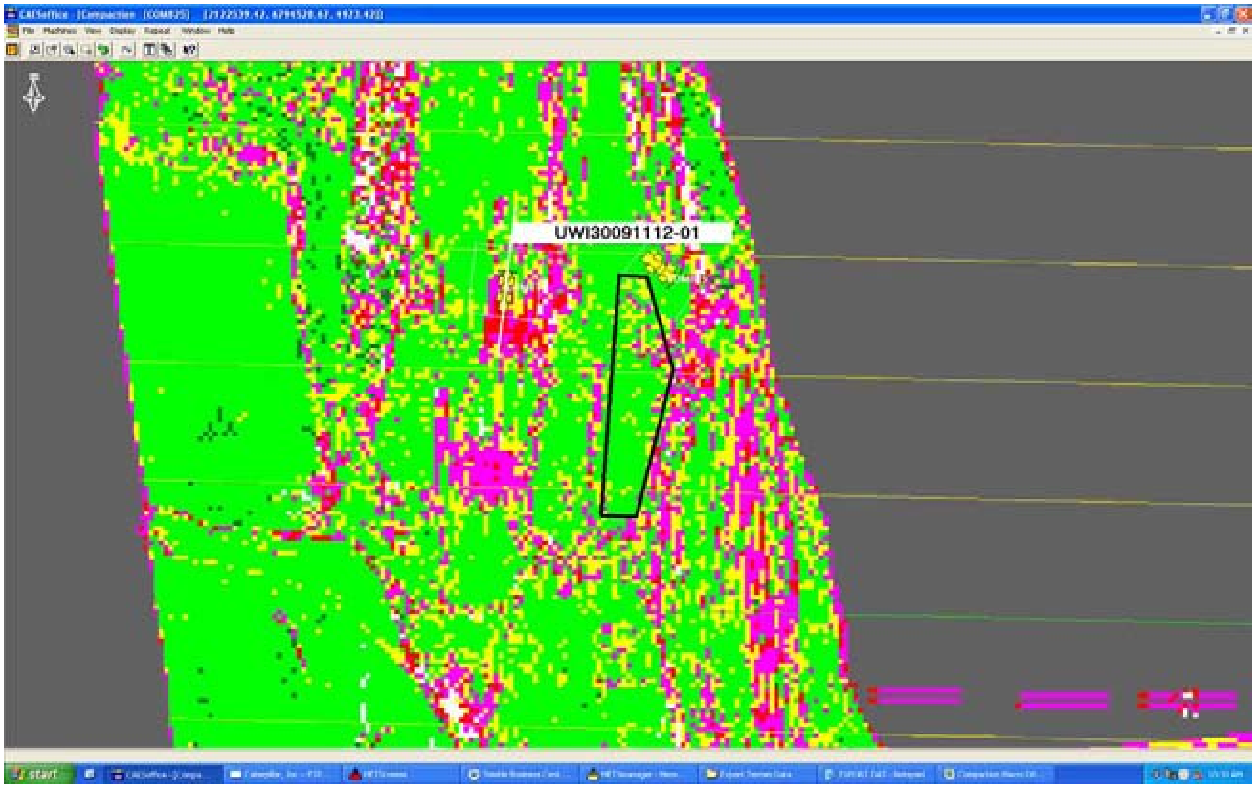
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
11/20/09	UWF26091120-03	0	270	35,521	83.5	0.8	N/A	0	0	N/A	
11/20/09	UWF26091120-02	0	237	35,757	96.2	0.7	N/A	0	0	N/A	
11/20/09	UWI26091120-00	0	191	35,948	85.8	0.8	N/A	0	0	N/A	
11/20/09	UWH28091120-03	0	0	35,948	71.8	0.0	N/A	0	0	N/A	
11/20/09	UWF27091119-03	0	254	36,202	78.6	0.7	N/A	0	0	N/A	1
11/21/09	UWF26091121-00	0	203	36,405	87.6	0.6	N/A	0	0	N/A	
11/21/09	UWF27091121-00	1	218	36,622	72.6	0.6	34	0	0	N/A	
11/23/09	UWH28091123-00	0	0	36,622	73.9	0.0	N/A	0	0	N/A	
11/23/09	UWF26091123-00	0	413	37,035	88.9	0.6	N/A	0	0	N/A	
11/23/09	UWG20091120-01	0	598	37,633	88.7	0.6	N/A	0	0	N/A	1
11/23/09	UWH23091123-00	0	225	37,858	71.1	0.3	N/A	0	0	N/A	
11/23/09	UWG20091123-00	1	598	38,456	91.3	0.6	34	0	0	N/A	
11/23/09	UWD20091113-00	0	304	38,760	79.5	0.6	N/A	0	0	N/A	
11/23/09	UWH23091123-01	0	450	39,211	77.7	0.6	N/A	0	0	N/A	
11/23/09	UWG20091123-01	0	598	39,809	78.1	0.6	N/A	0	0	N/A	
11/23/09	UWH23091123-02	0	296	40,105	78.0	0.3	N/A	0	0	N/A	
11/23/09	UWI26091120-01	0	167	40,272	87.2	0.7	N/A	0	0	N/A	1
11/24/09	UWG20091124-00	1	698	40,970	86.3	0.7	34	0	0	N/A	
11/24/09	UWH23091124-00	0	300	41,270	71.7	0.4	N/A	0	0	N/A	
11/24/09	UWE19091123-00	0	361	41,631	74.9	0.6	N/A	0	0	N/A	1
11/24/09	UWG20091124-01	0	399	42,030	91.5	0.4	N/A	0	0	N/A	
11/24/09	UWH23091124-01	0	225	42,255	83.2	0.3	N/A	0	0	N/A	
11/24/09	UWD20091124-00	1	355	42,609	85.2	0.7	34	0	0	N/A	
11/24/09	UWG20091124-02	0	399	43,008	80.3	0.4	N/A	0	0	N/A	
11/25/09	UWG20091125-00	0	498	43,507	87.1	0.5	N/A	0	0	N/A	
11/25/09	UWH23091125-00	1	300	43,807	73.7	0.4	34	0	0	N/A	
11/25/09	UWD20091125-00	0	304	44,111	88.9	0.6	N/A	0	0	N/A	
11/25/09	UWH23091125-01	0	375	44,486	78.4	0.5	N/A	0	0	N/A	
11/25/09	UWH23091125-02	0	300	44,786	74.0	0.4	N/A	0	0	N/A	
11/30/09	UWE19091124-00	1	60	44,846	76.0	0.1	34	0	0	N/A	1
11/30/09	UWD20091131-00	0	203	45,049	90.3	0.4	N/A	0	0	N/A	
11/30/09	UWG20091130-00	0	498	45,547	83.1	0.5	N/A	0	0	N/A	
11/30/09	UWF31091130-00	0	12	45,559	70.2	0.3	N/A	0	0	N/A	
11/30/09	UWD20091130-01	0	101	45,661	79.9	0.2	N/A	0	0	N/A	
11/30/09	UWE19091130-00	0	60	45,721	82.4	0.1	N/A	0	0	N/A	
11/30/09	UWF31091130-01	1	20	45,740	79.5	0.5	34	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 78.8
Total Quantity Approved (yd^3) = 45,740
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 35
Quantity per Moisture Test (yd^3) = 1,307
Total Average Thickness (ft) = 0.6

1. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the Lift ID #.

A2. RRM
Lift Approval Summary

CAES compaction screen example from November 2009. There are compaction screens 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.



A2. RRM
Lift Approval Summary

December 2009											
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 (%)	Notes
12/01/09	UWG20091201-00	1	498	498	89.0	0.5	34	0	0	N/A	
12/01/09	UWF31091201-00	0	8	506	79.1	0.2	N/A	0	0	N/A	
12/01/09	UWH23091201-00	0	225	731	72.9	0.3	N/A	0	0	N/A	
12/01/09	UWF31091201-01	1	8	739	77.3	0.2	34	0	0	N/A	
12/01/09	UWG20091201-01	0	498	1,238	85.5	0.5	N/A	0	0	N/A	
12/02/09	UWH23091202-00	0	450	1,688	73.6	0.6	N/A	0	0	N/A	
12/02/09	UWD20091202-00	0	273	1,961	85.8	0.6	N/A	0	0	N/A	
12/02/09	UWE19091202-00	0	421	2,381	86.6	0.7	N/A	0	0	N/A	
12/02/09	UWG20091202-00	2	598	2,980	78.8	0.6	34	0	0	N/A	
12/02/09	UWD20091202-01	0	237	3,217	85.4	0.3	N/A	0	0	N/A	
12/02/09	UWE19091202-01	0	151	3,368	80.8	0.2	N/A	0	0	N/A	
12/02/09	UWH23091202-01	0	218	3,586	84.0	0.2	N/A	0	0	N/A	
12/02/09	UWG20091202-01	0	199	3,785	79.6	0.2	N/A	0	0	N/A	
12/02/09	UWG29091202-00	0	92	3,877	98.1	0.1	N/A	0	0	N/A	
12/02/09	UWG20091202-02	0	646	4,523	86.9	0.7	N/A	0	0	N/A	
12/03/09	UWH23091203-00	1	327	4,850	83.7	0.3	25	0	0	N/A	
12/03/09	UWG20091203-00	0	516	5,365	86.7	0.4	N/A	0	0	N/A	
12/03/09	UWF31091202-00	0	12	5,377	84.8	0.3	N/A	0	0	N/A	1
12/03/09	UWE19091203-00	0	378	5,755	84.9	0.5	N/A	0	0	N/A	
12/03/09	UWD20091203-00	0	158	5,913	80.7	0.2	N/A	0	0	N/A	
12/03/09	UWH23091203-01	1	435	6,349	82.4	0.4	34	0	0	N/A	
12/03/09	UWG20091203-01	1	516	6,864	70.4	0.4	25	0	0	N/A	
12/03/09	UWH23091203-02	0	544	7,409	73.9	0.5	N/A	0	0	N/A	
12/03/09	UWE19091203-00	0	0	7,409	84.9	0.0	N/A	0	0	N/A	2
12/04/09	UWD20091203-00	0	0	7,409	84.2	0.0	N/A	0	0	N/A	1,2
12/04/09	UWH23091203-02	0	544	7,953	78.7	0.5	N/A	0	0	N/A	1
12/04/09	UWG20091204-00	0	774	8,727	81.3	0.6	N/A	0	0	N/A	
12/04/09	UWH23091204-00	1	109	8,835	82.1	0.1	34	0	0	N/A	
12/07/09	UWG20091204-00	1	0	8,835	71.0	0.0	34	0	0	N/A	1,2
12/07/09	UWE19091204-00	0	302	9,138	78.4	0.4	N/A	0	0	N/A	1
12/07/09	UWD20091204-00	0	316	9,454	81.6	0.4	N/A	0	0	N/A	1
12/07/09	UWH23091204-01	1	653	10,107	75.3	0.6	25	0	0	N/A	1
12/07/09	UWG20091207-00	1	903	11,010	83.6	0.7	34	0	0	N/A	
12/08/09	UWE19091208-00	1	458	11,467	82.9	0.6	34	0	0	N/A	
12/08/09	UWH23091208-00	0	544	12,012	92.4	0.5	N/A	0	0	N/A	
12/08/09	UWD20091207-00	0	0	12,012	70.2	0.0	N/A	0	0	N/A	1
12/08/09	UWE19091207-00	0	0	12,012	81.4	0.0	N/A	0	0	N/A	1
12/08/09	UWD20091208-00	0	718	12,729	76.5	0.8	34	0	0	N/A	
12/09/09	UWD20091209-00	0	406	13,135	86.8	0.5	N/A	0	0	N/A	
12/09/09	UWE19091209-00	0	153	13,288	87.1	0.2	N/A	0	0	N/A	
12/09/09	UWE19091209-01	0	534	13,822	86.1	0.7	N/A	0	0	N/A	
12/11/09	UWE19091211-00	2	534	14,356	82.9	0.7	34	0	0	N/A	
12/14/09	UWE19091214-00	0	458	14,813	88.0	0.6	N/A	0	0	N/A	
12/14/09	UWE19091214-01	1	538	15,351	90.3	0.7	34	0	0	N/A	
12/14/09	UWE19091212-00	0	534	15,885	78.6	0.7	34	0	0	N/A	1
12/15/09	UWE19091215-00	0	405	16,290	87.3	0.6	N/A	0	0	N/A	
12/15/09	UWD20091215-01	0	582	16,872	86.2	0.7	29	0	0	N/A	
12/15/09	UWD20091209-00	1	0	16,872	78.2	0.0	34	0	0	N/A	1,2
12/15/09	UWD20091215-00	0	416	17,288	72.7	0.5	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

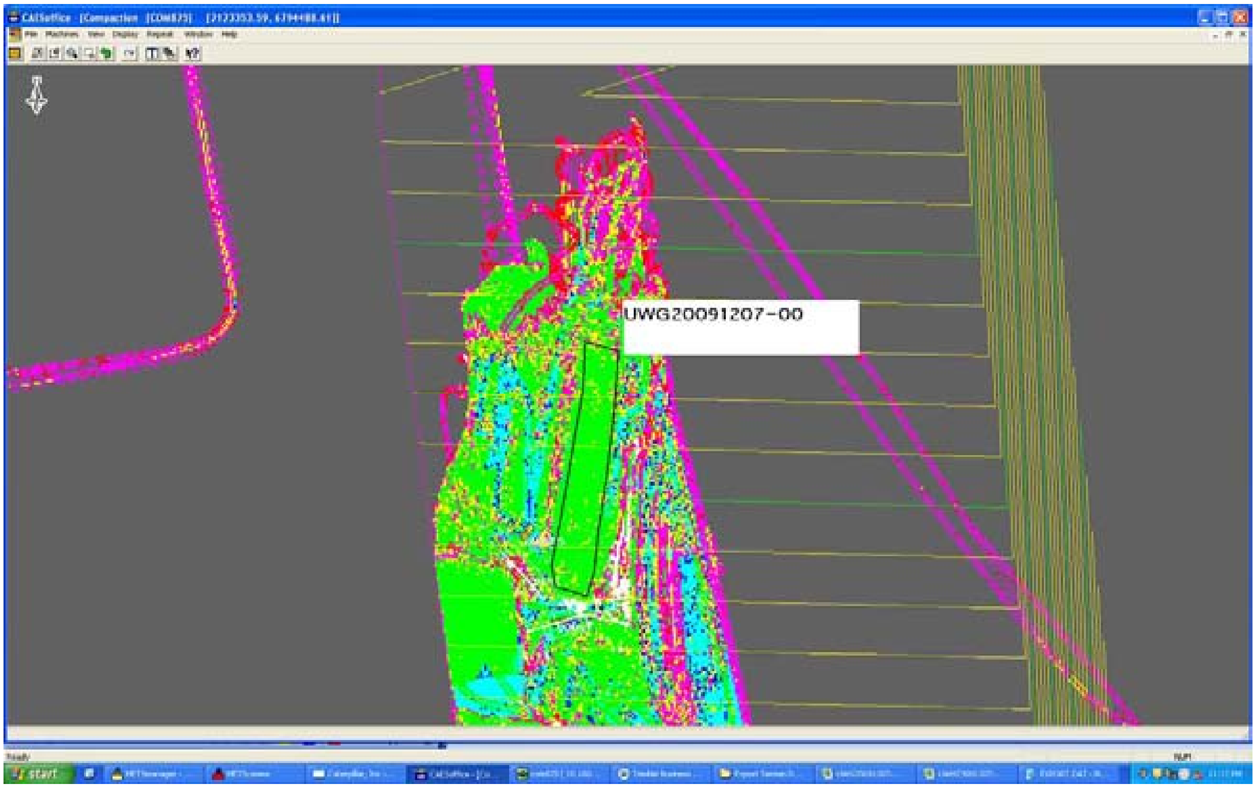
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
12/16/09	UWD20091216-00	1	582	17,870	79.1	0.7	34	0	0	N/A	
12/16/09	UWE19091216-00	0	405	18,274	86.7	0.6	N/A	0	0	N/A	
12/16/09	UWD20091216-01	0	333	18,607	93.0	0.4	N/A	0	0	N/A	
12/16/09	UWE19091216-01	1	405	19,012	91.7	0.6	34	0	0	N/A	
12/17/09	UWD20091217-00	1	702	19,714	79.5	0.6	34	0	0	N/A	
12/17/09	UWE19091217-00	0	404	20,118	84.4	0.5	N/A	0	0	N/A	
12/17/09	UWD20091217-01	0	819	20,937	87.2	0.7	N/A	0	0	N/A	
12/18/09	UWE19091217-01	1	565	21,502	90.5	0.7	34	0	0	N/A	1
12/18/09	UWD20091218-01	0	829	22,331	86.3	0.7	N/A	0	0	N/A	
12/18/09	UWD20091218-00	0	702	23,033	81.0	0.6	N/A	0	0	N/A	
12/18/09	UWE19091218-00	0	404	23,438	84.3	0.5	N/A	0	0	N/A	
12/18/09	UWC12091218-00	0	1,323	24,761	77.4	1.0	N/A	0	0	N/A	
12/18/09	UWD20091218-02	0	351	25,112	89.1	0.3	N/A	0	0	N/A	
12/18/09	UWE19091218-01	1	324	25,436	76.4	0.4	34	0	0	N/A	
12/21/09	UWD20091219-00	0	446	25,882	87.6	0.4	N/A	0	0	N/A	1
12/21/09	UWD20091221-00	1	585	26,467	84.4	0.5	34	0	0	N/A	
12/21/09	UWD20091221-01	0	819	27,287	85.5	0.7	N/A	0	0	N/A	
12/21/09	UWE19091221-00	1	404	27,691	90.9	0.5	34	0	0	N/A	
12/21/09	UWD20091221-02	0	819	28,511	87.3	0.7	N/A	0	0	N/A	
12/22/09	UWE19091222-00	0	485	28,996	76.2	0.6	N/A	0	0	N/A	
12/22/09	UWD20091222-00	0	468	29,464	85.1	0.4	N/A	0	0	N/A	
12/22/09	UWC12091222-00	0	794	30,258	84.6	0.6	N/A	0	0	N/A	
12/23/09	UWE19091222-01	0	485	30,744	86.6	0.6	N/A	0	0	N/A	1
12/23/09	UWD20091222-01	1	468	31,212	78.3	0.4	34	0	0	N/A	1
12/23/09	UWE19091223-00	1	324	31,535	77.5	0.4	34	0	0	N/A	
12/23/09	UWD20091223-00	1	564	32,099	82.1	0.4	34	0	0	N/A	
12/28/09	UWE19091223-01	1	0	32,099	82.4	0.0	34	0	0	N/A	1
12/29/09	UWE19091229-00	1	469	32,568	83.4	0.5	34	0	0	N/A	
12/29/09	UWD20091229-00	0	644	33,212	71.3	0.6	N/A	0	0	N/A	
12/29/09	UWE19091229-01	1	282	33,494	78.7	0.3	34	0	0	N/A	
12/30/09	UWE19091230-00	0	597	34,090	74.1	0.7	N/A	0	0	N/A	
12/30/09	UWD20091230-00	1	537	34,627	78.2	0.5	34	0	0	N/A	
12/30/09	UWE19091230-01	0	170	34,797	83.2	0.2	N/A	0	0	N/A	
12/30/09	UWE19091230-02	1	85	34,883	82.5	0.1	34	0	0	N/A	
12/30/09	UWD20091230-01	0	751	35,634	84.6	0.7	N/A	0	0	N/A	
12/30/09	UWD20091230-02	0	751	36,385	81.0	0.7	N/A	0	0	N/A	
12/30/09	UWE19091230-03	0	170	36,555	84.3	0.2	N/A	0	0	N/A	
12/31/09	UWD20091231-00	1	629	37,184	81.4	0.6	34	0	0	N/A	
12/31/09	UWE19091231-00	0	424	37,608	78.1	0.6	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 82.4
Total Quantity Approved (yd^3) = 37,608
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 32
Quantity per Moisture Test (yd^3) = 1,175
Total Average Thickness (ft) = 0.5

1. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the Lift ID #.
2. The top lift layers were frozen and the lift was then reworked and re-verified to produce satisfactory results. This is why this Lift ID # appears more than once.

A2. RRM
Lift Approval Summary

CAES compaction screen example from December 2009. There are compaction screens 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.



A2. RRM
Lift Approval Summary

January 2010											
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** (%)	**Notes**
01/04/10	UWD20091231-01	1	744	744	85.2	0.7	34	0	0	N/A	1
01/04/10	UWE19091231-01	1	399	1,143	70.9	0.5	34	0	0	N/A	1
01/05/10	UWE19100105-00	1	638	1,781	78.7	0.8	34	0	0	N/A	
01/05/10	UWE19100105-01	1	314	2,096	80.6	0.4	34	0	0	N/A	
01/06/10	UWD20100105-01	0	461	2,557	89.6	0.5	N/A	0	0	N/A	1
01/06/10	UWE19100106-00	0	313	2,870	72.0	0.4	N/A	0	0	N/A	
01/06/10	UWC15100106-00	0	910	3,780	85.6	0.8	N/A	0	0	N/A	
01/06/10	UWE19100106-01	0	368	4,148	76.5	0.5	N/A	0	0	N/A	
01/06/10	UWE19100106-02	0	313	4,461	71.1	0.4	N/A	0	0	N/A	
01/06/10	UWD20100106-00	0	749	5,210	88.4	0.6	N/A	0	0	N/A	
01/06/10	UWD20100106-01	1	624	5,834	87.3	0.5	34	0	0	N/A	
01/06/10	UWD20100106-02	1	538	6,372	88.4	0.5	34	0	0	N/A	
01/07/10	UWE19100107-03	1	355	6,727	71.4	0.5	34	0	0	N/A	
01/07/10	UWE19100107-00	0	391	7,118	73.0	0.5	N/A	0	0	N/A	
01/07/10	UWD20100107-00	0	624	7,742	88.7	0.5	N/A	0	0	N/A	
01/07/10	UWC16100106-00	0	84	7,827	87.5	0.5	N/A	0	0	N/A	1
01/07/10	UWE19100107-01	1	497	8,323	76.8	0.7	34	0	0	N/A	
01/07/10	UWD20100107-01	0	1,124	9,447	87.5	0.9	N/A	0	0	N/A	
01/07/10	UWC16100107-00	0	81	9,528	82.8	0.5	N/A	0	0	N/A	
01/07/10	UWE19100107-02	0	355	9,883	72.2	0.5	N/A	0	0	N/A	
01/07/10	UWD20100107-02	0	749	10,632	86.3	0.6	N/A	0	0	N/A	
01/07/10	UWC16100107-01	0	97	10,729	80.0	0.6	N/A	0	0	N/A	
01/08/10	UWD20100104-00	1	744	11,473	89.9	0.7	34	0	0	N/A	1
01/08/10	UWD20100105-00	0	638	12,110	85.8	0.6	N/A	0	0	N/A	1
01/08/10	UWD20100108-00	1	823	12,933	77.9	0.7	34	0	0	N/A	
01/08/10	UWD20100108-01	0	704	13,637	83.5	0.6	N/A	0	0	N/A	
01/08/10	UWE19100108-00	0	463	14,100	75.2	0.7	N/A	0	0	N/A	
01/09/10	UWE19100109-00	1	-60	14,040	73.2	0.3	34	0	0	N/A	
01/11/10	UWE19100111-01	0	270	14,310	84.7	0.6	N/A	0	0	N/A	
01/11/10	UWD20100111-00	2	478	14,788	74.1	0.8	34	1	0	90.4	
01/11/10	UWE19100111-00	0	131	14,919	71.8	0.2	N/A	0	0	N/A	
01/12/10	UWD20100112-00	0	588	15,507	76.2	0.5	N/A	0	0	N/A	
01/12/10	UWE19100112-00	1	225	15,732	72.9	0.5	34	1	0	91.6	
01/12/10	UWD20100112-02	0	823	16,555	83.3	0.7	N/A	0	0	N/A	
01/12/10	UWE19100112-01	1	315	16,870	76.1	0.7	34	0	0	N/A	
01/12/10	UWD20100112-01	0	823	17,693	82.8	0.7	N/A	0	0	N/A	
01/13/10	UWD20100113-00	0	940	18,633	85.2	0.8	N/A	0	0	N/A	
01/13/10	UWD20100113-01	1	705	19,338	82.5	0.6	34	0	0	N/A	
01/13/10	UWE19100113-00	0	223	19,561	70.6	0.5	N/A	0	0	N/A	
01/13/10	UWD20100113-02	0	484	20,045	76.5	0.5	N/A	0	0	N/A	
01/13/10	UWE19100113-01	1	223	20,268	77.3	0.5	34	0	0	N/A	
01/14/10	UWE19100114-00	0	45	20,313	86.5	0.1	N/A	0	0	N/A	
01/14/10	UWD20100114-01	1	580	20,893	81.7	0.6	34	0	0	N/A	
01/14/10	UWD20100114-00	0	677	21,570	72.9	0.7	N/A	0	0	N/A	
01/15/10	UWD20100115-02	1	343	21,913	83.4	0.5	34	0	0	N/A	
01/15/10	UWD20100115-00	1	677	22,590	90.9	0.7	34	0	0	N/A	
01/15/10	UWE19100115-00	1	516	23,106	74.8	0.5	28	0	0	N/A	
01/15/10	UWD20100115-01	0	480	23,586	80.7	0.6	N/A	0	0	N/A	
01/15/10	UWE19100115-01	0	516	24,102	75.4	0.5	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd³)	Cumulative Quantity Approved (yd³)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
01/15/10	UWD20100115-03	0	411	24,513	79.2	0.6	N/A	0	0	N/A	
01/16/10	UWC12100106-00	1	67	24,580	71.6	0.2	34	0	0	N/A	1
01/18/10	UWE19100115-02	0	678	25,258	76.4	0.6	N/A	0	0	N/A	1
01/18/10	UWC12100116-00	0	168	25,426	87.6	0.5	N/A	0	0	N/A	1
01/18/10	UWD20100118-00	1	411	25,837	71.4	0.6	34	0	0	N/A	
01/18/10	UWE19100118-00	0	485	26,322	83.3	0.6	N/A	0	0	N/A	
01/18/10	UWD20100118-01	1	480	26,802	87.0	0.7	34	0	0	N/A	
01/19/10	UWE19100119-00	0	412	27,214	81.7	0.4	N/A	0	0	N/A	
01/19/10	UWD20100119-01	1	863	28,077	77.9	0.6	34	0	0	N/A	
01/19/10	UWE19100119-01	1	504	28,581	86.3	0.5	34	0	0	N/A	
01/19/10	UWC12100119-00	0	168	28,749	87.2	0.5	N/A	0	0	N/A	
01/19/10	UWD20100119-00	0	206	28,955	87.1	0.3	N/A	0	0	N/A	
01/20/10	UWD20100120-01	2	853	29,808	N/A	0.7	34	1	0	90.7	2
01/20/10	UWD20100120-00	0	609	30,417	86.7	0.5	N/A	0	0	N/A	
01/21/10	UWE19100120-00	1	525	30,942	N/A	0.6	34	1	0	91.1	1,2
01/21/10	UWD20100121-00	0	366	31,308	76.2	0.3	N/A	0	0	N/A	
01/21/10	UWE19100121-00	0	438	31,746	70.6	0.5	N/A	0	0	N/A	
01/21/10	UWH23100121-00	0	0	31,746	88.8	0.0	N/A	0	0	N/A	4
01/21/10	UWG20100121-00	0	0	31,746	88.6	0.0	N/A	0	0	N/A	4
01/21/10	UWE19100121-01	1	350	32,096	78.6	0.4	34	0	0	N/A	
01/22/10	UWG20100122-00	1	497	32,593	88.2	0.8	34	0	0	N/A	
01/22/10	UWH23100122-00	0	434	33,027	85.5	0.7	N/A	0	0	N/A	
01/22/10	UWH23100122-01	0	186	33,213	86.8	0.3	N/A	0	0	N/A	
01/23/10	UWG20100123-00	0	435	33,648	88.9	0.7	N/A	0	0	N/A	
01/23/10	UWH23100123-00	0	372	34,020	72.9	0.6	N/A	0	0	N/A	
01/23/10	UWG20100123-01	1	310	34,330	75.4	0.5	34	0	0	N/A	
01/23/10	UWD20100121-01	2	731	35,061	71.8	0.6	34	0	0	N/A	1,3
01/23/10	UWH23100123-01	0	372	35,433	71.4	0.6	N/A	0	0	N/A	
01/23/10	UWH23100123-02	0	248	35,681	86.1	0.4	N/A	0	0	N/A	
01/23/10	UWG20100123-02	0	496	36,177	82.1	0.8	N/A	0	0	N/A	
01/23/10	UWD20100123-00	0	609	36,786	80.0	0.5	N/A	0	0	N/A	1
01/24/10	UWH23100124-00	0	372	37,158	77.1	0.6	N/A	0	0	N/A	
01/24/10	UWG20100124-00	0	559	37,717	88.5	0.9	N/A	0	0	N/A	1
01/24/10	UWE19100124-00	0	438	38,155	75.0	0.5	N/A	0	0	N/A	1
01/25/10	UWH23100125-00	0	496	38,651	76.6	0.8	N/A	0	0	N/A	
01/25/10	UWG20100125-00	0	497	39,148	82.8	0.8	N/A	0	0	N/A	
01/25/10	UWH23100125-01	1	496	39,644	77.3	0.8	34	0	0	N/A	
01/25/10	UWG20100125-02	1	186	39,830	86.2	0.3	34	0	0	N/A	
01/25/10	UWF19100125-00	0	238	40,068	92.6	0.3	N/A	0	0	N/A	3
01/26/10	UWH23100126-00	0	231	40,299	80.5	0.4	N/A	0	0	N/A	
01/26/10	UWH23100126-01	0	231	40,530	75.9	0.4	N/A	0	0	N/A	
01/26/10	UWG20100126-00	0	646	41,176	85.5	0.7	N/A	0	0	N/A	
01/26/10	UWH23100126-02	0	404	41,580	70.6	0.7	N/A	0	0	N/A	
01/26/10	UWH23100126-03	0	288	41,868	70.1	0.5	N/A	0	0	N/A	
01/26/10	UWG20100126-01	1	762	42,630	87.2	0.7	34	0	0	N/A	
01/26/10	UWH23100126-05	0	462	43,092	80.4	0.8	N/A	0	0	N/A	
01/26/10	UWH23100126-04	0	231	43,323	72.1	0.4	N/A	0	0	N/A	
01/26/10	UWG20100126-02	0	738	44,061	81.8	0.8	N/A	0	0	N/A	
01/27/10	UWG20100127-00	1	553	44,614	84.5	0.6	25	0	0	N/A	
01/27/10	UWH23100127-00	0	347	44,961	70.2	0.6	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

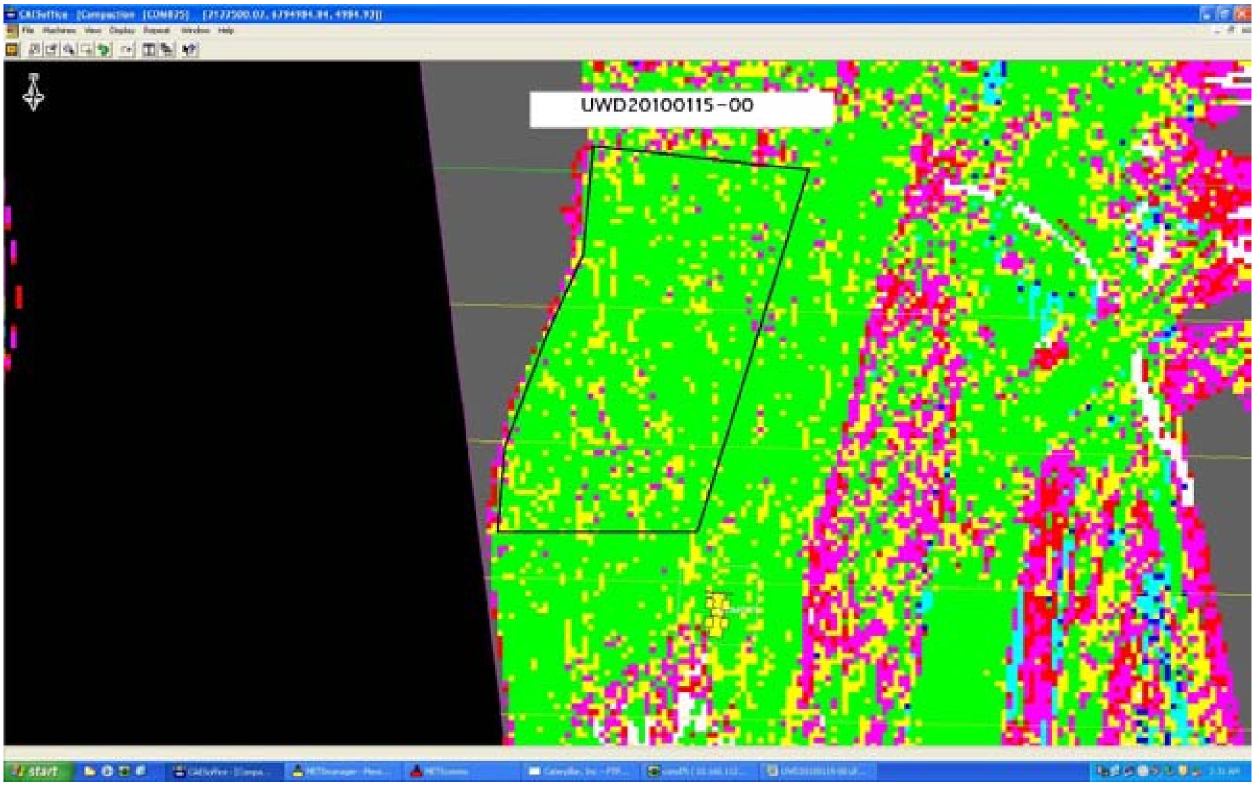
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
01/27/10	UWD20100127-00	1	244	45,205	72.0	0.2	34	0	0	N/A	
01/27/10	UWH23100127-01	0	289	45,494	85.9	0.5	N/A	0	0	N/A	
01/27/10	UWH23100127-02	1	236	45,730	N/A	0.4	34	1	0	91.1	2
01/27/10	UWG20100127-01	2	553	46,283	N/A	0.6	34	1	0	91.1	2
01/27/10	UWE19100127-00	0	438	46,721	79.6	0.5	N/A	0	0	N/A	
01/28/10	UWE19100128-00	0	263	46,984	78.7	0.3	N/A	0	0	N/A	
01/28/10	UWD20100128-00	0	487	47,471	80.2	0.4	N/A	0	0	N/A	
01/28/10	UWG20100128-00	1	553	48,024	77.0	0.6	34	0	0	N/A	
01/28/10	UWH23100128-00	0	289	48,313	90.7	0.5	N/A	0	0	N/A	
01/29/10	UWH23100129-03	1	319	48,632	N/A	0.7	7	1	0	92.4	2
01/29/10	UWG20100129-03	1	513	49,145	N/A	0.5	7	1	0	94.2	2
01/29/10	UWG20100129-00	0	461	49,606	84.2	0.5	N/A	0	0	N/A	
01/29/10	UWH23100129-00	0	231	49,837	87.1	0.4	N/A	0	0	N/A	
01/29/10	UWH23100129-01	0	288	50,125	92.5	0.5	N/A	0	0	N/A	
01/29/10	UWG20100129-01	0	461	50,586	80.4	0.5	N/A	0	0	N/A	
01/29/10	UWG20100129-02	1	396	50,982	N/A	0.4	27	1	0	96.2	2
01/29/10	UWH23100129-02	1	244	51,226	N/A	0.5	27	1	0	92.2	2
01/30/10	UWG20100130-00	1	684	51,910	N/A	0.7	34	1	0	91.9	2
01/30/10	UWH23100130-00	1	319	52,229	N/A	0.7	34	1	0	92.2	2
01/30/10	UWD20100130-00	1	758	52,987	N/A	0.7	34	1	0	95.9	2
01/30/10	UWE19100130-00	1	434	53,421	N/A	0.6	34	1	0	93.4	2

Average CAES Screen Passing Pixels (%) = 80.6
Total Quantity Approved (yd^3) = 53,421
Total # of Nuclear Density Gauge Tests = 13
Total # of Moisture Tests = 51
Quantity per Moisture Test (yd^3) = 1,047
Total Average Thickness (ft) = 0.5

1. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the Lift ID #.
2. Lift was approved using a nuclear density gauge and the Trimble survey system, due to the fact that the CAES system was down.
3. Lift was visually wet; moisture tests were taken periodically until the lift was dry enough for compaction.
4. Due to frost, material was placed on top of the lift and left alone. Then this material was removed and the lift was compacted. This is why there was no material approved on this lift

A2. RRM
Lift Approval Summary

CAES compaction screen example from January 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

February 2010											
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 (%)	Notes
02/01/10	UWH23100201-00	1	333	333	N/A	0.5	7	1	0	97.5	2
02/01/10	UWG20100201-01	1	700	1,033	N/A	0.7	7	1	0	93.8	2
02/01/10	UWG20100201-00	1	684	1,717	N/A	0.7	34	1	0	96.7	2
02/01/10	UWG20100202-00	1	610	2,327	N/A	0.8	25	1	0	90.7	1,2
02/01/10	UWH23100202-00	1	400	2,727	N/A	0.5	25	1	1	93.6	1,2
02/01/10	UWD20100201-00	1	758	3,485	N/A	0.7	25	1	0	90.2	1,2
02/01/10	UWE19100201-00	1	733	4,218	N/A	0.8	25	1	0	91.6	2
02/02/10	UWD20100202-00	1	325	4,543	N/A	0.3	36	1	0	91.1	2
02/02/10	UWE19100202-00	1	367	4,910	N/A	0.4	36	1	0	94.2	2
02/02/10	UWH23100202-01	1	353	5,263	N/A	0.9	25	1	0	90.7	2
02/02/10	UWG20100202-01	1	531	5,794	N/A	0.5	25	1	0	90.3	2
02/02/10	UWH23100202-02	1	722	6,516	N/A	0.7	7	1	0	95.8	2
02/03/10	UWH23100203-00	1	98	6,614	N/A	0.1	25	1	0	93.0	2
02/03/10	UWG20100203-00	1	610	7,224	N/A	0.6	27	1	0	91.5	2
02/03/10	UWH23100203-01	1	412	7,636	N/A	0.7	27	1	0	91.9	2
02/03/10	UWG20100203-01	2	610	8,246	N/A	0.6	25	2	0	92.7	2,3
02/03/10	UWH23100203-02	1	413	8,659	N/A	0.7	25	1	0	91.2	2
02/04/10	UWH23100204-00	1	179	8,838	N/A	0.3	25	1	0	93.4	2
02/04/10	UWH23100204-01	1	412	9,250	N/A	0.7	36	1	0	95.9	2
02/04/10	UWG20100204-00	1	712	9,962	N/A	0.7	36	1	0	94.4	2
02/05/10	UWG14100205-00	2	1206	11,168	75.2	0.8	36	1	0	92.1	
02/05/10	UWE19100205-00	1	200	11,368	74.4	0.4	34	1	0	92.6	
02/05/10	UWG14100205-01	1	746	12,114	84.1	0.5	25	0	0	N/A	
02/06/10	UWD20100206-00	0	554	12,668	79.9	0.6	N/A	0	0	N/A	
02/06/10	UWH14100206-00	1	193	12,861	88.9	0.3	43	0	0	N/A	
02/06/10	UWE19100206-00	0	173	13,034	83.2	0.3	N/A	0	0	N/A	
02/06/10	UWG14100206-00	1	895	13,929	77.8	0.6	36	0	0	N/A	
02/06/10	UWH14100206-01	0	352	14,281	84.1	0.5	N/A	0	0	N/A	
02/08/10	UWD20100206-01	0	832	15,113	80.1	0.9	N/A	0	0	N/A	4
02/08/10	UWD20100208-00	0	832	15,945	80.9	0.9	N/A	0	0	N/A	4
02/08/10	UWG14100206-01	0	706	16,651	92.8	0.5	N/A	0	0	N/A	4
02/08/10	UWE19100208-00	0	520	17,171	71.7	0.9	N/A	0	0	N/A	4
02/08/10	UWE19100208-01	0	405	17,576	83.4	0.7	N/A	0	0	N/A	4
02/08/10	UWG14100208-01	0	441	18,017	90.6	0.7	N/A	0	0	N/A	4
02/08/10	UWG14100208-00	0	315	18,332	88.6	0.5	N/A	0	0	N/A	4
02/09/10	UWH14100209-00	1	423	18,755	77.1	0.6	34	0	0	N/A	
02/09/10	UWG14100209-00	0	710	19,465	85.8	0.7	N/A	0	0	N/A	
02/09/10	UWH14100209-01	1	355	19,820	84.8	0.5	36	0	0	N/A	
02/09/10	UWG14100209-01	0	507	20,327	90.4	0.5	N/A	0	0	N/A	
02/09/10	UWH14100209-02	1	213	20,540	84.8	0.3	34	0	0	N/A	
02/10/10	UWG14100210-00	0	203	20,743	91.2	0.2	N/A	0	0	N/A	
02/10/10	UWH14100210-00	0	213	20,956	91.8	0.3	N/A	0	0	N/A	
02/10/10	UWH14100210-01	1	426	21,382	84.9	0.5	36	0	0	N/A	
02/10/10	UWG14100210-01	0	608	21,990	84.2	0.6	N/A	0	0	N/A	
02/10/10	UWH14100210-02	0	284	22,274	87.7	0.4	N/A	0	0	N/A	
02/10/10	UWG14100210-02	0	812	23,086	83.9	0.8	N/A	0	0	N/A	
02/10/10	UWH14100210-03	0	355	23,441	71.0	0.5	N/A	0	0	N/A	
02/10/10	UWG14100210-03	0	507	23,948	87.8	0.5	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd³)	Cumulative Quantity Approved (yd³)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
02/10/10	UWH14100210-04	1	71	24,019	78.7	0.1	34	0	0	N/A	
02/10/10	UWH14100210-05	0	284	24,303	81.4	0.4	N/A	0	0	N/A	
02/11/10	UWH14100211-00	0	142	24,445	89.4	0.2	N/A	0	0	N/A	
02/11/10	UWH14100211-03	0	130	24,575	83.7	0.3	N/A	0	0	N/A	
02/11/10	UWG14100211-02	0	378	24,953	85.6	0.6	N/A	0	0	N/A	
02/11/10	UWG14100211-00	0	406	25,359	90.9	0.4	N/A	0	0	N/A	
02/11/10	UWG14100211-01	0	316	25,675	91.9	0.5	N/A	0	0	N/A	
02/11/10	UWH14100211-01	0	261	25,936	78.1	0.6	N/A	0	0	N/A	
02/11/10	UWH14100211-02	1	261	26,197	81.5	0.6	36	0	0	N/A	
02/11/10	UWG14100211-03	1	253	26,450	88.4	0.4	25	0	0	N/A	
02/12/10	UWE27100212-03	0	179	26,629	83.7	0.6	N/A	0	0	N/A	
02/12/10	UWG14100212-00	0	315	26,944	93.4	0.5	N/A	0	0	N/A	
02/12/10	UWH14100212-00	0	217	27,161	79.6	0.5	N/A	0	0	N/A	
02/12/10	UWH14100212-01	1	261	27,422	76.2	0.6	34	0	0	N/A	
02/12/10	UWE27100212-02	0	119	27,541	90.8	0.4	N/A	0	0	N/A	
02/12/10	UWE27100212-01	0	59	27,600	92.1	0.2	N/A	0	0	N/A	
02/12/10	UWE27100212-00	0	89	27,689	90.1	0.3	N/A	0	0	N/A	
02/12/10	UWG14100212-01	0	442	28,131	82.6	0.7	N/A	0	0	N/A	
02/12/10	UWG14100212-02	1	253	28,384	89.4	0.4	34	0	0	N/A	
02/12/10	UWH14100212-02	0	131	28,515	81.4	0.3	N/A	0	0	N/A	
02/13/10	UWH14100213-00	1	261	28,776	91.9	0.6	34	0	0	N/A	
02/13/10	UWH14100212-03	0	218	28,994	91.9	0.5	N/A	0	0	N/A	
02/13/10	UWG14100213-00	0	378	29,372	85.4	0.6	N/A	0	0	N/A	
02/13/10	UWG14100213-01	0	441	29,813	91.8	0.7	N/A	0	0	N/A	
02/16/10	UWH14100216-00	0	391	30,204	87.8	0.9	N/A	0	0	N/A	
02/16/10	UWH14100216-01	0	261	30,465	88.3	0.6	N/A	0	0	N/A	
02/16/10	UWG14100216-00	1	441	30,906	87.5	0.7	34	0	0	N/A	
02/16/10	UWE27100216-00	0	119	31,025	93.7	0.4	N/A	0	0	N/A	
02/16/10	UWE27100216-01	0	90	31,115	95.0	0.3	N/A	0	0	N/A	
02/16/10	UWH14100216-02	1	305	31,420	76.3	0.7	25	0	0	N/A	
02/17/10	UWG14100217-00	1	378	31,798	81.6	0.6	34	0	0	N/A	
02/17/10	UWH14100217-01	0	261	32,059	93.8	0.6	N/A	0	0	N/A	
02/17/10	UWH14100217-00	0	261	32,320	82.3	0.6	N/A	0	0	N/A	
02/17/10	UWG14100217-01	0	378	32,698	71.7	0.6	N/A	0	0	N/A	
02/18/10	UWK26100218-00	0	443	33,141	74.1	0.7	N/A	0	0	N/A	
02/18/10	UWG14100217-02	1	253	33,394	84.0	0.4	34	0	0	N/A	
02/18/10	UWG14100218-00	1	378	33,772	81.4	0.6	34	0	0	N/A	
02/18/10	UWH14100218-00	0	174	33,946	88.9	0.4	N/A	0	0	N/A	
02/18/10	UWH14100222-01	0	570	34,516	89.2	0.6	N/A	0	0	N/A	
02/18/10	UWH14100218-01	0	469	34,985	91.0	0.5	N/A	0	0	N/A	
02/18/10	UWB22100218-00	0	0	34,985	89.4	0.0	N/A	0	0	N/A	
02/18/10	UWG14100218-01	1	427	35,412	91.0	0.5	34	0	0	N/A	
02/18/10	UWB22100218-01	0	69	35,481	91.6	0.3	N/A	0	0	N/A	
02/19/10	UWB22100219-00	0	69	35,550	90.5	0.3	N/A	0	0	N/A	
02/19/10	UWH14100219-00	0	190	35,740	89.0	0.2	N/A	0	0	N/A	
02/19/10	UWE19100219-00	0	347	36,087	74.5	0.6	N/A	0	0	N/A	
02/19/10	UWG14100219-00	0	510	36,597	86.6	0.6	N/A	0	0	N/A	
02/19/10	UWB22100219-01	0	46	36,643	93.2	0.2	N/A	0	0	N/A	
02/19/10	UWB22100219-02	0	69	36,712	92.1	0.3	N/A	0	0	N/A	
02/19/10	UWB22100219-03	0	46	36,758	87.5	0.2	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

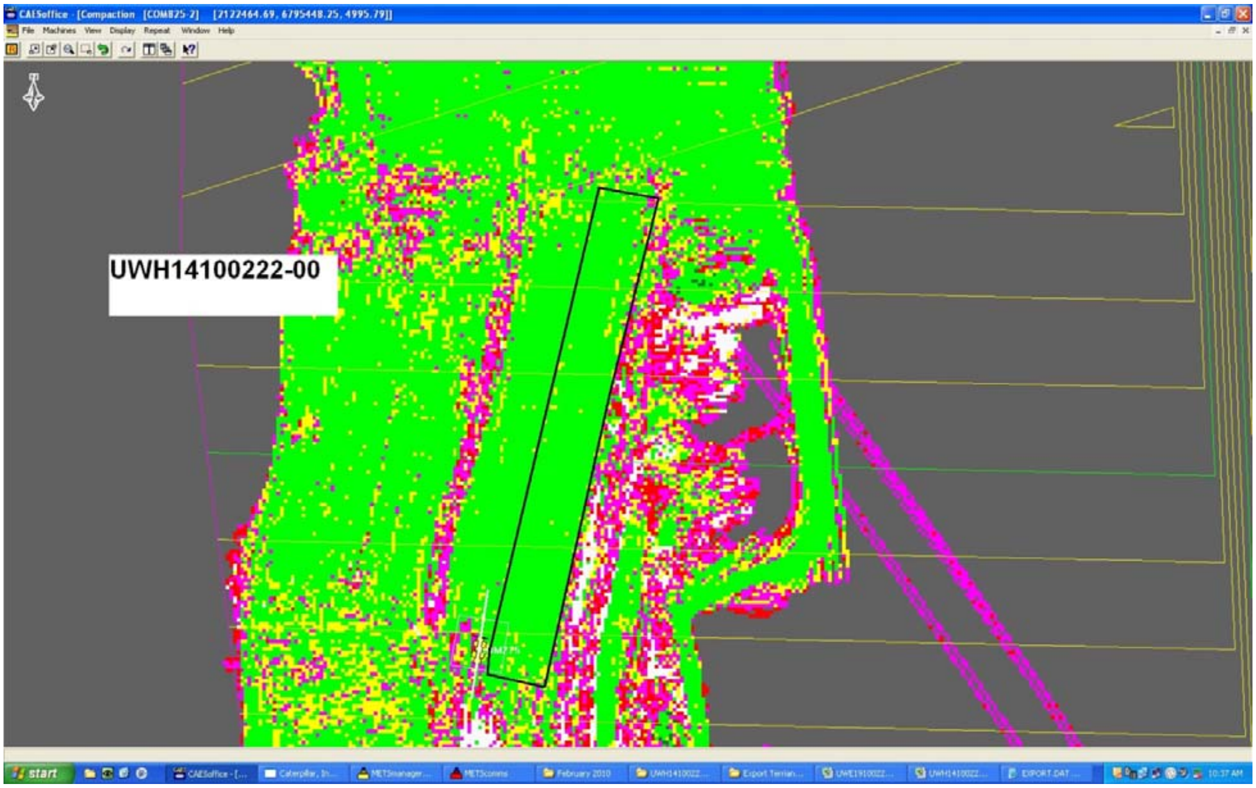
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
02/19/10	UWH14100219-01	2	380	37,138	84.7	0.4	34	0	0	N/A	
02/20/10	UWG14100219-01	0	426	37,564	80.3	0.5	N/A	0	0	N/A	1
02/20/10	UWH14100220-00	0	380	37,944	79.6	0.4	N/A	0	0	N/A	
02/22/10	UWG14100222-00	1	85	38,029	84.8	0.1	34	0	0	N/A	
02/22/10	UWE19100222-00	1	0	38,029	78.1	0.0	34	0	0	N/A	5
02/22/10	UWD20100222-00	1	92	38,121	81.8	0.1	34	0	0	N/A	
02/22/10	UWH14100222-00	1	0	38,121	91.1	0.0	34	0	0	N/A	5
02/22/10	UWG14100222-01	0	510	38,631	84.5	0.6	N/A	0	0	N/A	
02/23/10	UWH14100223-00	1	475	39,106	80.7	0.5	27	0	0	N/A	
02/23/10	UWE19100223-00	1	346	39,452	84.8	0.6	27	0	0	N/A	
02/23/10	UWG14100223-01	1	510	39,962	82.8	0.6	27	0	0	N/A	
02/23/10	UWH14100223-01	1	475	40,437	73.1	0.5	27	0	0	N/A	
02/23/10	UWG14100223-00	1	370	40,807	81.1	0.5	34	0	0	N/A	
02/24/10	UWF12100224-00	0	0	40,807	88.0	0.0	N/A	0	0	N/A	6
02/24/10	UWD20100224-01	0	534	41,341	89.5	0.5	N/A	0	0	N/A	
02/24/10	UWF12100224-01	0	72	41,413	93.8	0.7	N/A	0	0	N/A	
02/24/10	UWK26100224-00	0	443	41,856	93.3	0.7	N/A	0	0	N/A	
02/24/10	UWG14100224-00	1	417	42,273	84.7	0.5	34	0	0	N/A	
02/24/10	UWD20100224-00	0	555	42,828	78.7	0.6	N/A	0	0	N/A	
02/25/10	UWG14100225-00	1	483	43,311	88.8	0.6	25	0	0	N/A	
02/25/10	UWE19100225-01	0	676	43,987	89.8	0.7	N/A	0	0	N/A	
02/25/10	UWD20100225-00	1	846	44,833	85.2	0.7	51	0	0	N/A	
02/25/10	UWE19100225-00	0	386	45,219	92.8	0.4	N/A	0	0	N/A	
02/25/10	UWH14100225-00	0	493	45,712	71.9	0.6	N/A	0	0	N/A	
02/26/10	UWE19100226-00	0	579	46,291	82.7	0.6	N/A	0	0	N/A	
02/26/10	UWE19100226-01	1	676	46,967	86.9	0.7	51	0	0	N/A	
02/26/10	UWH14100226-00	0	494	47,461	82.8	0.6	N/A	0	0	N/A	
02/26/10	UWG14100226-01	1	322	47,783	84.8	0.4	34	0	0	N/A	
02/26/10	UWE19100226-02	0	483	48,266	86.3	0.5	N/A	0	0	N/A	
02/26/10	UWH14100226-01	0	247	48,513	89.0	0.3	N/A	0	0	N/A	
02/26/10	UWD20100226-00	0	846	49,359	86.6	0.7	N/A	0	0	N/A	
02/26/10	UWG14100226-00	0	322	49,681	85.6	0.4	N/A	0	0	N/A	
02/26/10	UWK26100226-00	1	316	49,997	92.7	0.5	34	0	0	N/A	
02/27/10	UWE19100227-00	0	386	50,383	83.9	0.4	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 85.3
Total Quantity Approved (yd^3) = 50,383
Total # of Nuclear Density Gauge Tests = 23
Total # of Moisture Tests = 60
Quantity per Moisture Test (yd^3) = 840
Total Average Thickness (ft) = 0.5

1. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the date and Lift ID #.
2. Lift was approved using a nuclear density gauge and the Trimble survey system, due to the fact that the CAES system was down.
3. Two nuclear density gauge tests were performed, due to the fact that the first one produced unsatisfactory results. The lift was reworked and recompacted producing satisfactory results.
4. The daily moisture for 02/08/10 was done on UWH14100209-00 by the night shift. This lift can be found on 02/09/10.
5. Lift has no approved cubic yards due to the fact that wet material was removed, dry material added, and the lift was recompacted.
6. Lift was created on existing lift in order to remove wet material and replace with satisfactory material.

A2. RRM
Lift Approval Summary

CAES compaction screen example from February 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

March 2010											
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 (%)	Notes
03/01/10	UWG14100301-00	0	80	80	82.0	0.1	N/A	0	0	N/A	
03/01/10	UWE19100301-00	0	675	755	81.0	0.7	N/A	0	0	N/A	
03/01/10	UWD20100301-00	0	845	1,600	80.6	0.7	N/A	0	0	N/A	
03/01/10	UWH14100301-00	0	493	2,093	88.9	0.6	N/A	0	0	N/A	
03/01/10	UWE19100301-01	1	675	2,768	84.0	0.7	51	0	0	N/A	
03/01/10	UWG14100301-01	0	483	3,251	75.9	0.6	N/A	0	0	N/A	
03/01/10	UWE19100301-02	0	290	3,541	75.4	0.3	N/A	0	0	N/A	
03/01/10	UWG14100301-02	1	483	4,024	75.8	0.6	52	0	0	N/A	
03/01/10	UWH14100301-01	0	494	4,518	85.6	0.6	N/A	0	0	N/A	
03/02/10	UWG14100302-00	0	161	4,679	82.8	0.2	N/A	0	0	N/A	
03/02/10	UWE19100302-00	0	483	5,162	77.6	0.5	N/A	0	0	N/A	
03/02/10	UWH14100302-00	0	165	5,327	89.5	0.2	N/A	0	0	N/A	
03/02/10	UWH14100302-01	0	82	5,409	88.9	0.1	N/A	0	0	N/A	
03/02/10	UWE19100302-01	1	579	5,988	79.6	0.6	43	0	0	N/A	
03/02/10	UWH14100302-02	1	411	6,399	78.6	0.5	27	0	0	N/A	
03/02/10	UWD20100302-00	0	846	7,245	74.4	0.7	N/A	0	0	N/A	
03/02/10	UWG14100302-01	1	403	7,648	71.0	0.5	52	0	0	N/A	
03/02/10	UWG14100302-02	0	161	7,809	82.8	0.2	N/A	0	0	N/A	
03/02/10	UWH14100302-04	1	246	8,055	75.7	0.3	52	0	0	N/A	
03/02/10	UWH14100302-03	0	411	8,466	79.3	0.5	N/A	0	0	N/A	
03/03/10	UWG14100303-00	0	483	8,949	82.7	0.6	N/A	0	0	N/A	
03/03/10	UWH14100303-00	0	266	9,215	85.3	0.4	N/A	0	0	N/A	
03/03/10	UWE19100303-00	1	842	10,057	75.8	0.8	51	0	0	N/A	
03/03/10	UWE19100302-02	0	675	10,732	78.6	0.7	N/A	0	0	N/A	1
03/03/10	UWG14100303-01	0	371	11,103	75.0	0.6	N/A	0	0	N/A	
03/03/10	UWD20100303-00	0	1,147	12,250	70.6	0.7	N/A	0	0	N/A	
03/03/10	UWH14100303-01	0	398	12,648	85.4	0.6	N/A	0	0	N/A	
03/03/10	UWA12100303-00	0	N/A	12,648	83.8	N/A	N/A	0	0	N/A	
03/04/10	UWG14100303-02	0	309	12,957	75.8	0.5	N/A	0	0	N/A	1
03/04/10	UWE19100303-01	1	421	13,378	82.0	0.4	56	0	0	N/A	1
03/04/10	UWD20100304-00	1	1,147	14,525	81.6	0.7	51	0	0	N/A	
03/04/10	UWE19100304-00	0	632	15,157	84.2	0.6	N/A	0	0	N/A	
03/04/10	UWG8100304-00	0	1,142	16,299	80.1	0.7	N/A	0	0	N/A	
03/05/10	UWG8100305-02	0	816	17,115	81.7	0.5	N/A	0	0	N/A	
03/05/10	UWD20100304-01	0	1,147	18,262	85.7	0.7	N/A	0	0	N/A	1
03/05/10	UWE19100305-00	1	737	18,999	80.5	0.7	51	0	0	N/A	
03/05/10	UWG8100305-01	0	980	19,979	79.5	0.6	N/A	0	0	N/A	
03/05/10	UWD20100305-00	0	1,147	21,126	78.5	0.7	N/A	0	0	N/A	
03/05/10	UWG8100305-00	1	980	22,106	86.7	0.6	36	0	0	N/A	
03/06/10	UWE19100305-01	1	632	22,738	79.0	0.6	51	0	0	N/A	1
03/06/10	UWD20100305-01	0	657	23,395	85.8	0.4	N/A	0	0	N/A	1
03/06/10	UWG8100306-00	0	816	24,211	83.1	0.5	N/A	0	0	N/A	
03/06/10	UWD20100306-00	1	1,311	25,522	72.6	0.8	51	0	0	N/A	
03/08/10	UWE19100308-00	1	737	26,259	79.8	0.7	51	0	0	N/A	
03/08/10	UWG8100308-00	0	1,142	27,401	80.0	0.7	N/A	0	0	N/A	
03/08/10	UWD20100308-00	0	1,147	28,548	90.6	0.7	N/A	0	0	N/A	
03/09/10	UWG8100309-02	0	327	28,875	79.2	0.2	N/A	0	0	N/A	
03/09/10	UWG8100309-01	0	816	29,691	78.6	0.5	N/A	0	0	N/A	
03/09/10	UWE19100309-01	0	421	30,112	78.8	0.4	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
03/09/10	UWD20100309-01	1	1,147	31,259	86.6	0.7	27	0	0	N/A	
03/09/10	UWG8100309-00	1	816	32,075	78.0	0.5	52	0	0	N/A	
03/09/10	UWE19100309-00	0	632	32,707	83.7	0.6	N/A	0	0	N/A	
03/09/10	UWD20100309-00	0	820	33,527	89.3	0.5	N/A	0	0	N/A	
03/10/10	UWD20100310-00	0	1,147	34,674	84.5	0.7	N/A	0	0	N/A	
03/10/10	UWE19100310-00	1	421	35,095	75.7	0.4	51	0	0	N/A	
03/10/10	UWG8100310-01	0	393	35,488	73.1	0.4	N/A	0	0	N/A	
03/10/10	UWG8100310-00	0	658	36,146	88.3	0.8	N/A	0	0	N/A	
03/10/10	UWE19100309-02	1	737	36,883	72.4	0.7	27	0	0	N/A	1
03/10/10	UWD20100309-02	1	983	37,866	87.7	0.6	52	0	0	N/A	1
03/11/10	UWE19100311-00	0	737	38,603	76.2	0.7	N/A	0	0	N/A	
03/11/10	UWD20100311-00	1	984	39,587	83.7	0.6	56	0	0	N/A	
03/11/10	UWG8100311-01	0	412	39,999	77.4	0.5	N/A	0	0	N/A	
03/11/10	UWE19100311-01	0	632	40,631	91.6	0.6	N/A	0	0	N/A	
03/11/10	UWG8100311-00	0	247	40,878	83.4	0.3	N/A	0	0	N/A	
03/12/10	UWG8100311-02	1	412	41,290	73.6	0.5	N/A	0	0	N/A	1
03/12/10	UWD20100312-00	1	1,785	43,075	85.3	0.7	56	0	0	N/A	
03/12/10	UWE19100312-00	0	604	43,679	84.6	0.6	N/A	0	0	N/A	
03/12/10	UWG8100312-00	0	458	44,137	78.9	0.5	N/A	0	0	N/A	
03/13/10	UWE19100313-00	1	806	44,943	79.9	0.8	52	0	0	N/A	
03/13/10	UWD20100313-00	1	1,785	46,728	85.4	0.7	51	0	0	N/A	
03/15/10	UWD20100315-00	2	2,039	48,767	85.2	0.8	51	0	0	N/A	1
03/15/10	UWE19100315-00	1	N/A	48,767	88.7	N/A	51	0	0	N/A	
03/16/10	UWD20100316-00	1	1,784	50,551	82.9	0.7	51	0	0	N/A	
03/16/10	UWD20100316-01	2	1,785	52,336	83.4	0.7	27	0	0	N/A	2
03/17/10	UWE19100317-00	0	604	52,940	80.2	0.6	N/A	0	0	N/A	2
03/17/10	UWE19100317-01	0	505	53,445	79.2	0.5	N/A	0	0	N/A	2
03/18/10	UWD20100318-00	1	2,290	55,735	90.8	0.7	27	0	0	N/A	
03/18/10	UWE19100318-00	0	809	56,544	84.0	0.8	N/A	0	0	N/A	
03/18/10	UWD20100318-01	1	2,289	58,833	94.8	0.7	27	0	0	N/A	
03/19/10	UWD20100319-00	2	2,616	61,449	73.3	0.8	51	0	0	N/A	
03/19/10	UWE19100319-00	0	708	62,157	83.1	0.7	N/A	0	0	N/A	
03/22/10	UWE19100322-00	0	607	62,764	85.3	0.6	N/A	0	0	N/A	
03/22/10	UWD20100322-00	1	2,290	65,054	86.3	0.7	56	0	0	N/A	
03/23/10	UWD20100323-00	1	2,290	67,344	91.2	0.7	27	0	0	N/A	
03/23/10	UWE19100323-00	0	607	67,951	80.8	0.6	N/A	0	0	N/A	
03/24/10	UWD20100324-00	2	2,290	70,241	90.1	0.7	56	0	0	N/A	
03/24/10	UWE19100324-00	0	304	70,545	89.3	0.3	N/A	0	0	N/A	
03/25/10	UWJ05100324-00	1	2,118	72,663	91.0	0.6	52	0	0	N/A	1
03/25/10	UWN27100325-00	0	1,416	74,079	92.9	0.6	N/A	0	0	N/A	
03/25/10	UWJ05100325-00	2	2,471	76,550	91.8	0.7	56	0	0	N/A	
03/25/10	UWN27100325-01	0	1,652	78,202	90.9	0.7	N/A	0	0	N/A	
03/26/10	UWN27100326-00	0	1,651	79,853	86.8	0.7	N/A	0	0	N/A	
03/26/10	UWJ05100326-00	1	2,118	81,971	88.5	0.6	52	0	0	N/A	
03/27/10	UWJ05100327-00	2	2,824	84,795	90.1	0.8	56	0	0	N/A	
03/29/10	UWG26100325-00	0	1,084	85,879	92.4	0.6	N/A	0	0	N/A	1
03/29/10	UWN27100329-00	0	1,652	87,531	91.0	0.7	N/A	0	0	N/A	
03/29/10	UWJ05100329-00	1	2,471	90,002	96.2	0.7	25	0	0	N/A	

A2. RRM
Lift Approval Summary

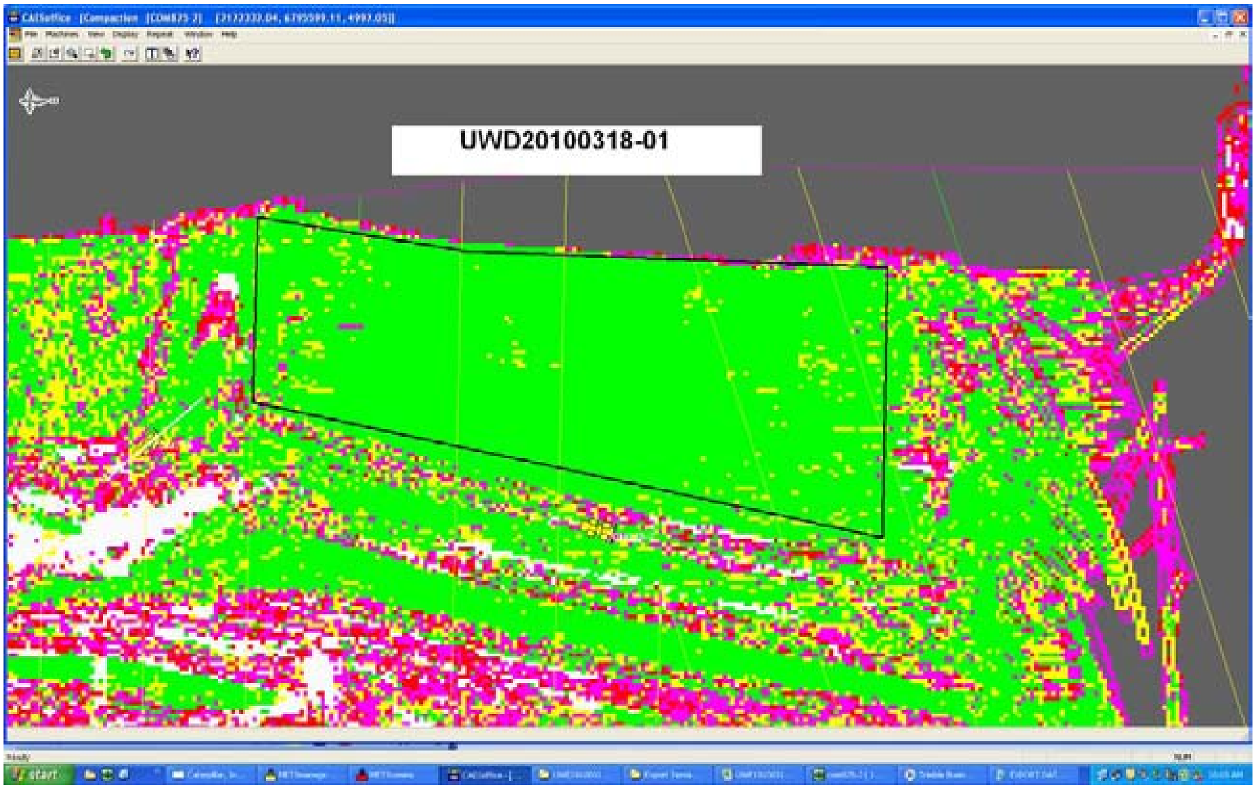
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
03/30/10	UWN27100330-01	1	1,652	91,654	86.3	0.7	77	0	0	N/A	
03/30/10	UWG26100330-00	0	1,084	92,738	93.5	0.6	N/A	0	0	N/A	
03/30/10	UWN27100330-00	0	1,887	94,625	83.0	0.8	N/A	0	0	N/A	
03/30/10	UWJ05100330-00	1	2,118	96,743	83.4	0.6	56	0	0	N/A	
03/31/10	UWD20100325-00	1	2,290	99,033	92.6	0.7	44	0	0	N/A	1
03/31/10	UWP27100331-00	0	460	99,493	78.2	0.4	N/A	0	0	N/A	
03/31/10	UWJ05100331-00	0	2,118	101,611	85.3	0.6	N/A	0	0	N/A	
03/31/10	UWN27100331-00	0	1,652	103,263	89.2	0.7	N/A	0	0	N/A	
03/31/10	UWP27100331-01	0	806	104,069	87.2	0.7	N/A	0	0	N/A	
03/31/10	UWJ05100331-01	1	1,765	105,834	81.1	0.5	51	0	0	N/A	
03/31/10	UWP27100331-02	2	691	106,525	88.8	0.6	56	0	0	N/A	

Average CAES Screen Passing Pixels (%) =	83.1
Total Quantity Approved (yd^3) =	106,525
Total # of Nuclear Density Gauge Tests =	0
Total # of Moisture Tests =	51
Quantity per Moisture Test (yd^3) =	2,089
Total Average Thickness (ft) =	0.6

1. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the date and Lift ID #.
2. The daily moisture for 03/17/10 was done on UWD20100316-01 by the day shift. This lift can be found on 03/16/10.

A2. RRM
Lift Approval Summary

CAES compaction screen example from March 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

April 2010											
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 (%)	Notes
04/01/10	UWB01100401-00	0	1,052	1,052	95.5	0.8	N/A	0	0	N/A	
04/01/10	UWB03100401-00	1	953	2,005	95.0	0.9	81	0	0	N/A	
04/01/10	UWP27100401-00	0	528	2,533	87.5	0.6	N/A	0	0	N/A	
04/02/10	UWI01100402-01	0	741	3,274	87.7	0.7	N/A	0	0	N/A	
04/02/10	UWI02100402-00	1	1,554	4,828	90.9	0.5	81	0	0	N/A	
04/02/10	UWB01100401-01	0	789	5,617	95.4	0.6	N/A	0	0	N/A	
04/02/10	UWI01100402-00	0	741	6,358	97.2	0.7	N/A	0	0	N/A	
04/03/10	UWB03100403-00	1	1,453	7,811	89.8	0.8	77	0	0	N/A	
04/05/10	UWI02100405-00	0	311	8,122	83.8	0.1	N/A	0	0	N/A	
04/05/10	UWB01100405-00	0	921	9,043	90.1	0.7	N/A	0	0	N/A	
04/05/10	UWI02100405-01	2	2,175	11,218	87.0	0.7	51,52	0	0	N/A	1
04/05/10	UWG26100405-00	0	1,263	12,481	84.3	0.7	N/A	0	0	N/A	
04/06/10	UWQ24100406-00	0	518	12,999	92.8	0.7	N/A	0	0	N/A	
04/06/10	UWP20100406-00	0	511	13,510	97.4	0.6	N/A	0	0	N/A	
04/06/10	UWQ24100406-01	0	371	13,881	90.6	0.5	N/A	0	0	N/A	
04/06/10	UWQ24100406-02	1	445	14,326	91.6	0.6	52	0	0	N/A	
04/06/10	UWP20100406-01	0	682	15,008	94.0	0.8	N/A	0	0	N/A	
04/07/10	UWK26100407-00	0	464	15,472	86.9	0.7	N/A	0	0	N/A	
04/07/10	UWP20100407-00	0	426	15,898	86.9	0.5	N/A	0	0	N/A	
04/07/10	UWQ24100407-00	0	445	16,343	80.6	0.6	N/A	0	0	N/A	
04/07/10	UWP20100407-01	1	511	16,854	85.6	0.6	51	0	0	N/A	
04/07/10	UWI01100407-00	1	847	17,701	94.9	0.8	73	0	0	N/A	
04/07/10	UWB03100407-00	0	1,854	19,555	94.0	0.8	N/A	0	0	N/A	
04/08/10	UWI02100408-00	0	1,526	21,081	80.6	0.6	N/A	0	0	N/A	
04/08/10	UWB01100408-00	1	928	22,009	89.2	0.7	77	0	0	N/A	
04/08/10	UWI01100408-00	1	369	22,378	95.2	0.4	77	0	0	N/A	
04/08/10	UWB03100408-00	0	1,622	24,000	91.6	0.7	N/A	0	0	N/A	
04/08/10	UWI02100408-01	1	2,034	26,034	85.3	0.8	81	0	0	N/A	
04/09/10	UWB01100409-00	0	1,194	27,228	96.3	0.9	N/A	0	0	N/A	
04/10/10	UWI02100410-00	1	1,780	29,008	96.6	0.7	38	0	0	N/A	
04/10/10	UWI01100410-00	1	554	29,562	94.1	0.6	66	0	0	N/A	
04/12/10	UWB01100412-00	1	1,194	30,756	91.0	0.9	81	0	0	N/A	
04/12/10	UWB03100412-00	0	1,854	32,610	97.9	0.8	N/A	0	0	N/A	
04/13/10	UWI01100413-00	0	748	33,358	99.8	0.8	N/A	0	0	N/A	
04/13/10	UWB03100413-00	1	1,996	35,354	94.4	0.7	52	0	0	N/A	
04/13/10	UWI02104013-00	1	1,651	37,005	95.7	0.8	73	0	0	N/A	
04/14/01	UWI01100414-00	0	655	37,660	97.1	0.7	N/A	0	0	N/A	
04/14/01	UWB01100414-00	0	937	38,597	97.3	0.7	N/A	0	0	N/A	
04/14/01	UWB03100414-00	1	1,622	40,219	92.3	0.7	66	0	0	N/A	
04/14/01	UWI02100414-00	0	2,034	42,253	95.4	0.8	N/A	0	0	N/A	
04/15/10	UWI01100415-00	0	855	43,108	80.0	0.8	N/A	0	0	N/A	
04/15/10	UWB01100415-00	1	846	43,954	97.6	0.6	73	0	0	N/A	
04/16/10	UWB03100416-00	1	2,285	46,239	95.7	0.7	66	0	0	N/A	
04/16/10	UWI02100416-00	1	1,238	47,477	76.5	0.6	66	0	0	N/A	
04/19/10	UWB01100419-00	0	937	48,414	87.4	0.7	N/A	0	0	N/A	
04/19/10	UWQ24100419-00	1	445	48,859	85.6	0.6	43	0	0	N/A	
04/19/10	UWP20100419-00	0	653	49,512	73.3	0.7	N/A	0	0	N/A	
04/19/10	UWQ24100419-01	0	380	49,892	92.6	0.5	N/A	0	0	N/A	
04/19/10	UWP20100419-01	0	464	50,356	92.1	0.6	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
04/19/10	UWI01100419-00	0	748	51,104	93.0	0.7	N/A	0	0	N/A	
04/20/10	UWQ24100420-00	0	152	51,256	93.8	0.2	N/A	0	0	N/A	
04/20/10	UWP20100420-00	0	372	51,628	87.7	0.4	N/A	0	0	N/A	
04/20/10	UWQ24100420-01	1	221	51,849	92.6	0.3	73	0	0	N/A	
04/20/10	UWP20100420-01	0	605	52,454	97.1	0.7	N/A	0	0	N/A	
04/20/10	UWK29100420-00	0	509	52,963	83.3	0.7	N/A	0	0	N/A	
04/20/10	UWK29100420-01	1	509	53,472	89.3	0.7	66	0	0	N/A	
04/20/10	UWB03100420-00	1	2,612	56,084	90.6	0.8	73	0	0	N/A	
04/20/10	UWB03100420-00	1	0	56,084	92.7	0.8	73	0	0	N/A	2
04/20/10	UWM29100420-00	0	447	56,531	88.8	0.5	N/A	0	0	N/A	
04/21/10	UWI02100421-00	1	1,833	58,364	92.7	0.8	73	0	0	N/A	
04/21/10	UWI02100421-00	1	0	58,364	84.1	0.8	73	0	0	N/A	2
04/21/10	UWM29100421-00	0	804	59,168	95.2	0.9	N/A	0	0	N/A	
04/21/10	UWB01100421-00	2	987	60,155	91.8	0.7	66	0	0	N/A	3
04/21/10	UWK29100421-00	0	436	60,591	80.2	0.6	N/A	0	0	N/A	
04/22/10	UWI01100422-00	0	534	61,125	94.1	0.5	N/A	0	0	N/A	
04/22/10	UWB01100422-00	1	846	61,971	92.6	0.6	56	0	0	N/A	
04/22/10	UWL07100422-00	0	2,576	64,547	87.5	0.7	N/A	0	0	N/A	
04/23/10	UWK29100423-00	0	436	64,983	84.9	0.6	N/A	0	0	N/A	
04/23/10	UWK26100423-00	0	322	65,305	95.0	0.5	N/A	0	0	N/A	
04/23/10	UWM29100423-00	1	626	65,931	88.7	0.7	85	0	0	N/A	
04/23/10	UWI01100423-00	0	641	66,572	91.0	0.6	N/A	0	0	N/A	
04/23/10	UWB03100423-00	0	1,959	68,531	95.2	0.6	N/A	0	0	N/A	
04/23/10	UWI02100423-00	0	1,375	69,906	92.1	0.6	N/A	0	0	N/A	
04/23/10	UWL07100423-00	1	1,840	71,746	94.3	0.5	25	0	0	N/A	
04/23/10	UWG26100423-00	0	991	72,737	78.3	0.8	N/A	0	0	N/A	
04/26/10	UWB03100426-00	1	1,633	74,370	96.6	0.5	66	0	0	N/A	
04/26/10	UWI02100426-00	0	1,146	75,516	93.4	0.5	N/A	0	0	N/A	
04/26/10	UWI01100426-00	0	427	75,943	94.0	0.4	N/A	0	0	N/A	
04/26/10	UWB01100426-00	1	1,128	77,071	96.6	0.8	85	0	0	N/A	
04/27/10	UWB01100427-00	1	1,128	78,199	98.4	0.8	85	0	0	N/A	
04/27/10	UWI01100427-00	0	855	79,054	95.4	0.8	N/A	0	0	N/A	
04/27/10	UWB03100427-00	1	1,451	80,505	94.8	0.5	44	0	0	N/A	
04/28/10	UWB01100428-00	1	1,558	82,063	94.2	0.7	85	0	0	N/A	
04/28/10	UWI02100428-00	0	730	82,793	97.1	0.5	N/A	0	0	N/A	
04/29/10	UWI01100429-00	0	1,228	84,021	92.1	0.7	N/A	0	0	N/A	
04/29/10	UWB03100429-00	2	1,780	85,801	96.5	0.8	73	0	0	N/A	3
04/30/10	UWI01100430-00	0	875	86,676	93.4	0.5	N/A	0	0	N/A	
04/30/10	UWB03100430-00	2	2,322	88,998	93.6	0.8	66	0	0	N/A	3
04/30/10	UWB01100430-00	1	1,780	90,778	95.6	0.8	92	0	0	N/A	

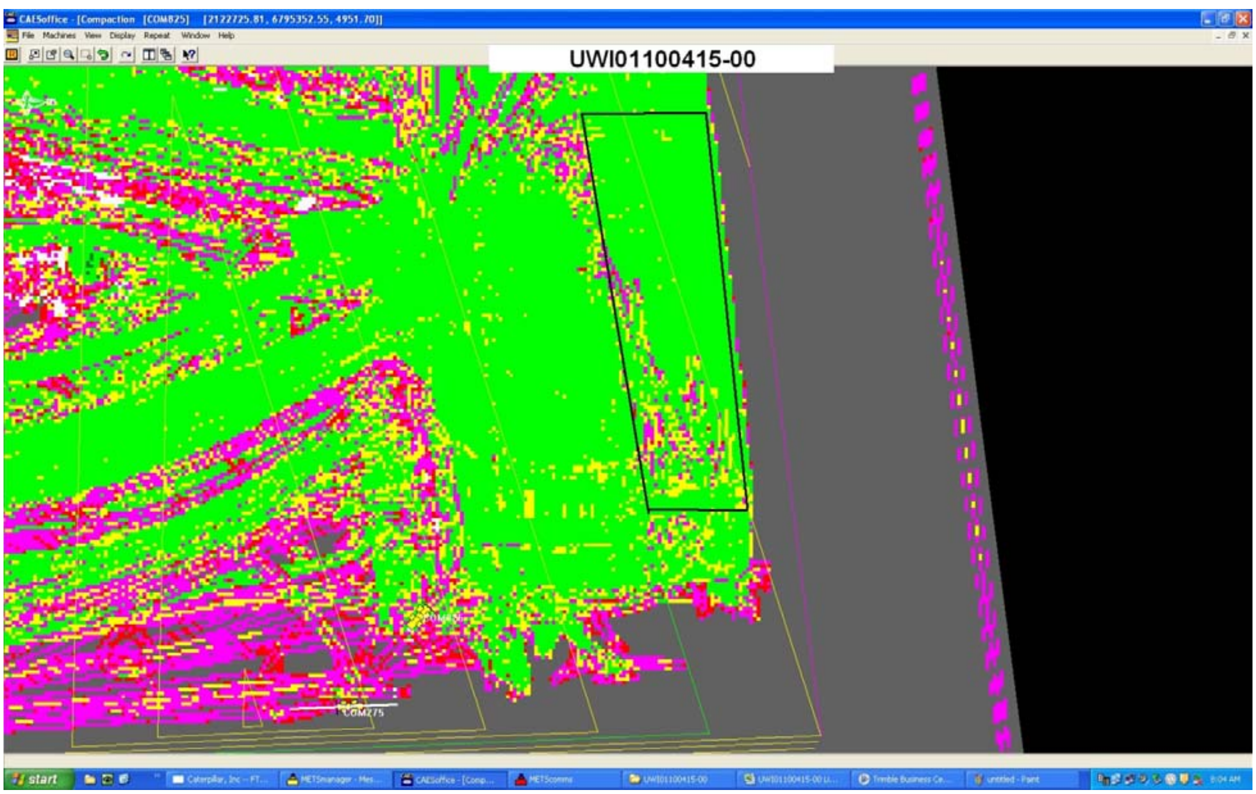
A2. RRM
Lift Approval Summary

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 (%)	Notes
04/30/10	UWI02100430-00	0	1,168	91,946	94.6	0.8	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 91.4
Total Quantity Approved (yd^3) = 91,946
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 42
Quantity per Moisture Test (yd^3) = 2,189
Total Average Thickness (ft) = 0.7

1. There are two Proctor ID #s due to the fact that there were two moisture tests taken, each with a different proctor.
2. The Lift ID # appears twice due to the fact that excessive moisture was found on the lift after it had been approved. The lift was reworked, recompacted, retested, and reapproved. This is also the reason for there being no new quantity of cubic yards approved.
3. The lift was placed during both night and day shifts. This is the reason for there being two moisture tests taken on this one lift.

CAES compaction screen example from April 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

May 2010											
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** (%)	**Notes**
05/03/10	UWB01100503-00	1	1,780	1,780	98.3	0.8	66	0	0	N/A	
05/03/10	UWI02100503-00	0	876	2,656	94.0	0.6	N/A	0	0	N/A	
05/04/10	UWI01100504-00	0	1,575	4,231	94.8	0.9	N/A	0	0	N/A	
05/04/10	UWK29100504-01	0	437	4,668	81.5	0.6	N/A	0	0	N/A	
05/04/10	UWK26100504-00	0	201	4,869	93.5	0.5	N/A	0	0	N/A	
05/04/10	UWL07100504-00	2	3,155	8,024	94.6	0.8	73,89	0	0	N/A	1
05/04/10	UWK29100504-00	1	582	8,606	85.9	0.8	73	0	0	N/A	
05/04/10	UWB03100504-00	0	3,006	11,612	93.1	0.8	N/A	0	0	N/A	
05/05/10	UWI02100505-00	1	537	12,149	94.8	0.4	73	0	0	N/A	
05/06/10	UWI01100506-00	0	1,181	13,330	92.8	0.6	N/A	0	0	N/A	
05/06/10	UWK29100506-00	0	420	13,750	91.3	0.6	N/A	0	0	N/A	
05/06/10	UWB03100506-00	0	3,005	16,755	90.4	0.8	73	0	0	N/A	
05/07/10	UWB01100507-00	1	1,578	18,333	90.5	0.7	73	0	0	N/A	
05/07/10	UWI01100507-00	1	1,360	19,693	88.1	0.7	73	0	0	N/A	
05/07/10	UWB01100507-01	0	1,127	20,820	96.7	0.5	N/A	0	0	N/A	
05/07/10	UWI02100507-00	0	806	21,626	94.6	0.6	N/A	0	0	N/A	
05/08/10	UWI01100508-00	1	957	22,583	89.8	0.6	73	0	0	N/A	
05/10/10	UWB03100510-00	0	3,011	25,594	94.4	0.8	N/A	0	0	N/A	
05/11/10	UWK29100511-00	0	210	25,804	85.2	0.3	N/A	0	0	N/A	
05/11/10	UWM29100511-00	1	452	26,256	88.4	0.5	25	0	0	N/A	
05/11/10	UWI01100511-00	1	1,276	27,532	91.7	0.8	73	0	0	N/A	
05/11/10	UWI02100511-00	1	861	28,393	94.2	0.7	73	0	0	N/A	
05/11/10	UWB01100511-00	0	1,787	30,180	91.5	0.8	N/A	0	0	N/A	
05/12/10	UWD20100512-00	0	1,130	31,310	88.0	0.6	N/A	0	0	N/A	
05/12/10	UWK26100512-01	0	385	31,695	93.5	0.7	N/A	0	0	N/A	
05/12/10	UWB03100512-00	2	3,011	34,706	87.7	0.8	73,77	0	0	N/A	1
05/12/10	UWI02100512-00	0	861	35,567	82.6	0.7	N/A	0	0	N/A	
05/12/10	UWK26100512-00	0	385	35,952	92.6	0.7	N/A	0	0	N/A	
05/12/10	UWK29100512-00	0	490	36,442	89.4	0.7	N/A	0	0	N/A	
05/13/10	UWB03100513-00	1	2,428	38,870	92.8	0.6	73	0	0	N/A	
05/13/10	UWB01100513-00	1	1,564	40,434	95.1	0.7	66	0	0	N/A	
05/13/10	UWI01100513-00	1	1,116	41,550	87.0	0.7	73	0	0	N/A	
05/14/10	UWI01100514-00	1	988	42,538	91.0	0.6	89	0	0	N/A	
05/14/10	UWI02100514-00	0	795	43,333	91.8	0.7	N/A	0	0	N/A	
05/14/10	UWB01100514-00	0	1,793	45,126	95.2	0.8	N/A	0	0	N/A	
05/17/10	UWK29100517-00	0	490	45,616	87.5	0.7	N/A	0	0	N/A	
05/17/10	UWL07100517-00	1	3,155	48,771	91.0	0.8	73	0	0	N/A	
05/18/10	UWI01100517-00	1	987	49,758	89.7	0.6	73	0	0	N/A	2
05/18/10	UWB03100518-00	1	3,225	52,983	96.0	0.8	73	0	0	N/A	
05/18/10	UWK26100518-00	0	290	53,273	96.0	0.6	N/A	0	0	N/A	
05/18/10	UWI02100518-00	0	581	53,854	96.4	0.5	N/A	0	0	N/A	
05/18/10	UWB01100518-00	1	1,816	55,670	87.6	0.8	73	0	0	N/A	
05/19/10	UWB03100519-00	2	2,822	58,492	96.9	0.7	66	0	0	N/A	1
05/19/10	UWI01100519-00	0	1,149	59,641	95.0	0.8	N/A	0	0	N/A	
05/19/10	UWK26100519-00	0	289	59,930	86.6	0.6	N/A	0	0	N/A	
05/20/10	UWK29100520-00	0	239	60,169	97.6	0.4	N/A	0	0	N/A	
05/20/10	UWA01100520-00	1	3,022	63,191	90.1	0.9	73	0	0	N/A	
05/20/10	UWI02100520-00	0	697	63,888	93.9	0.6	N/A	0	0	N/A	
05/20/10	UWM29100520-00	1	529	64,417	79.7	0.5	73	0	0	N/A	

A2. RRM
Lift Approval Summary

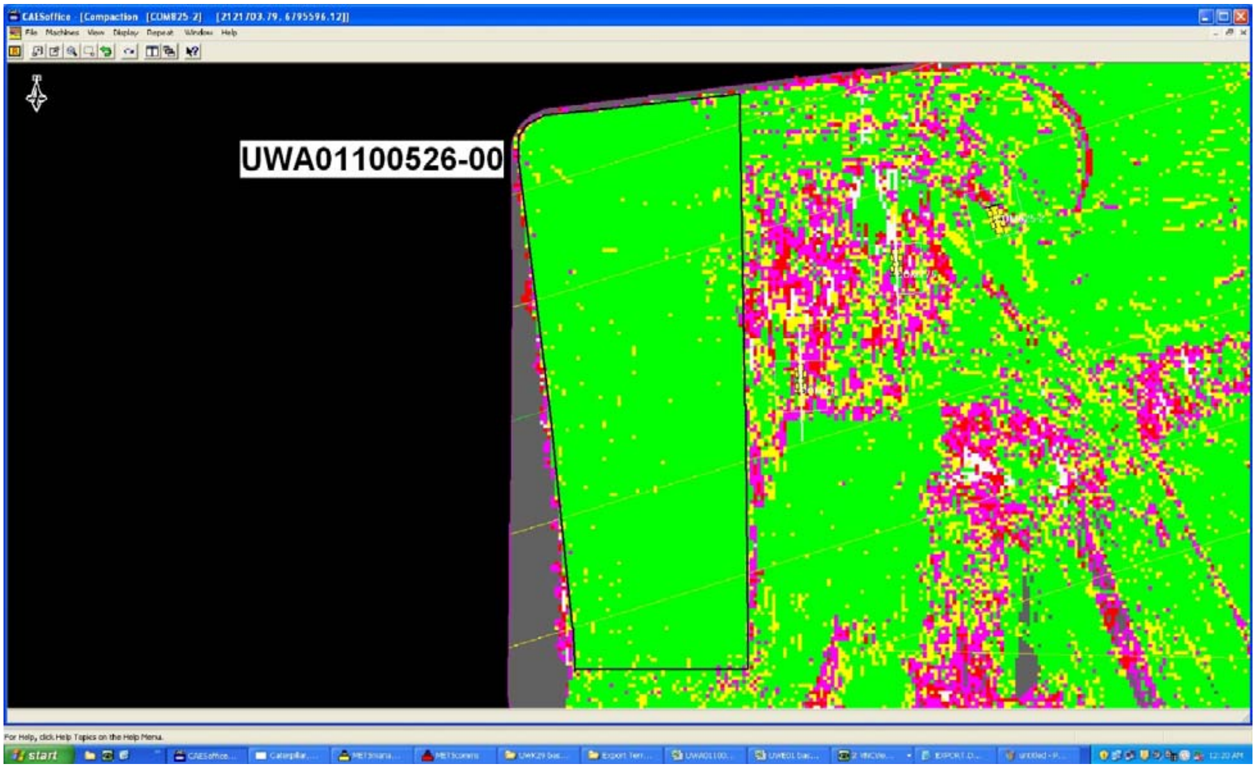
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
05/21/10	UWM29100521-00	1	741	65,158	92.2	0.7	73	0	0	N/A	
05/21/10	UWK26100521-00	0	338	65,496	88.2	0.7	N/A	0	0	N/A	
05/21/10	UWK29100521-00	0	479	65,975	95.5	0.8	N/A	0	0	N/A	
05/21/10	UWL07100521-00	0	2,710	68,685	96.7	0.7	N/A	0	0	N/A	
05/22/10	UWK29100522-00	1	479	69,164	96.4	0.8	85	0	0	N/A	
05/22/10	UWD20100524-00	0	1,143	70,307	88.8	0.7	N/A	0	0	N/A	
05/22/10	UWM29100524-00	0	635	70,942	95.0	0.6	N/A	0	0	N/A	
05/22/10	UWE01100524-00	1	1,974	72,916	91.0	0.6	73	0	0	N/A	
05/22/10	UWL07100524-00	1	1,161	74,077	95.0	0.3	73	0	0	N/A	
05/25/10	UWA01100525-00	1	2,686	76,763	94.8	0.8	99	0	0	N/A	
05/25/10	UWM29100525-00	0	106	76,869	93.2	0.1	N/A	0	0	N/A	
05/25/10	UWE01100525-00	0	329	77,198	87.1	0.1	N/A	0	0	N/A	
05/26/10	UWA01100526-00	1	2,886	80,084	96.2	0.9	92	0	0	N/A	
05/26/10	UWE01100526-00	1	2,169	82,253	93.0	0.7	73	0	0	N/A	
05/26/10	UWK29100526-00	0	172	82,425	86.7	0.3	N/A	0	0	N/A	
05/26/10	UWE01100526-01	1	2,886	85,311	91.1	0.9	77	0	0	N/A	
05/27/10	UWL07100527-00	0	2,971	88,282	89.6	0.7	N/A	0	0	N/A	
05/27/10	UWA01100527-00	2	1,924	90,206	88.2	0.6	79,99	0	0	N/A	1
05/28/10	UWI08100528-00	0	488	90,694	87.2	0.7	N/A	0	0	N/A	
05/28/10	UWE01100528-00	1	2,479	93,173	86.5	0.8	99	0	0	N/A	
05/28/10	UWA01100528-00	1	1,924	95,097	91.1	0.6	77	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 91.5
Total Quantity Approved (yd^3) = 95,097
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 37
Quantity per Moisture Test (yd^3) = 2,570
Total Average Thickness (ft) = 0.7

1. The lift was placed during both night and day shifts. This is the reason for there being two moisture tests taken on this one lift.
2. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the date and Lift ID #.

A2. RRM
Lift Approval Summary

CAES compaction screen example from May 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

June 2010											
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 (%)	Notes
06/01/10	UWE01100601-00	1	2,454	2,454	86.6	0.7	66	0	0	N/A	
06/01/10	UWM29100601-00	0	617	3,071	91.6	0.7	N/A	0	0	N/A	
06/01/10	UWK29100601-00	0	401	3,472	92.8	0.7	N/A	0	0	N/A	
06/02/10	UWD20100602-00	0	648	4,120	89.2	0.6	N/A	0	0	N/A	
06/02/10	UWA01100602-00	1	2,565	6,685	92.9	0.8	60	0	0	N/A	
06/02/10	UWE01100602-00	1	1,753	8,438	87.2	0.5	73	0	0	N/A	
06/02/10	UWL07100602-00	1	2,122	10,560	91.4	0.5	73	0	0	N/A	
06/03/10	UWE01100603-00	1	2,812	13,372	92.3	0.8	85	0	0	N/A	
06/03/10	UWA01100603-00	1	2,108	15,480	93.7	0.7	103	0	0	N/A	
06/03/10	UWD20100603-00	0	756	16,236	94.9	0.7	N/A	0	0	N/A	
06/04/10	UWE01100604-00	1	2,812	19,048	94.1	0.8	103	0	0	N/A	
06/04/10	UWD20100604-00	0	648	19,696	93.7	0.6	N/A	0	0	N/A	
06/04/10	UWA01100604-00	0	1,807	21,503	96.6	0.6	N/A	0	0	N/A	
06/04/10	UWL07100604-00	0	2,967	24,470	93.3	0.7	N/A	0	0	N/A	
06/07/10	UWE01100607-00	0	2,053	26,523	94.4	0.6	N/A	0	0	N/A	
06/07/10	UWA01100607-00	1	2,108	28,631	93.9	0.7	73	0	0	N/A	
06/07/10	UWD18100607-00	0	15	28,646	76.0	0.2	N/A	0	0	N/A	
06/07/10	UWA01100607-01	1	1,998	30,644	92.0	0.6	73	0	0	N/A	
06/08/10	UWD18100608-00	0	22	30,666	89.7	0.3	N/A	0	0	N/A	
06/08/10	UWE01100608-00	0	1,013	31,679	94.1	0.3	N/A	0	0	N/A	
06/08/10	UWD20100608-00	0	847	32,526	85.6	0.7	N/A	0	0	N/A	
06/08/10	UWA01100608-00	3	1,997	34,523	95.1	0.6	66,77	0	0	N/A	1
06/09/10	UWA01100609-00	0	2,165	36,688	94.2	0.7	N/A	0	0	N/A	
06/09/10	UWI08100609-00	0	419	37,107	95.8	0.6	N/A	0	0	N/A	
06/09/10	UWE01100609-00	0	1,396	38,503	94.6	0.7	N/A	0	0	N/A	
06/09/10	UWL07100609-00	1	1,272	39,775	95.6	0.3	60	0	0	N/A	
06/10/10	UWD25100610-02	0	27	39,802	83.3	0.2	N/A	0	0	N/A	
06/10/10	UWA01100610-00	0	2,000	41,802	94.5	0.7	N/A	0	0	N/A	
06/10/10	UWE01100610-00	1	3,120	44,922	94.4	0.8	92	0	0	N/A	
06/10/10	UWD25100610-01	0	40	44,962	71.7	0.3	N/A	0	0	N/A	
06/10/10	UWD25100610-00	0	13	44,975	71.7	0.1	N/A	0	0	N/A	
06/10/10	UWI08100610-00	0	401	45,376	93.2	0.5	N/A	0	0	N/A	
06/11/10	UWD25100611-00	0	54	45,430	78.3	0.4	N/A	0	0	N/A	
06/11/10	UWD25100611-01	0	41	45,471	90.0	0.3	N/A	0	0	N/A	
06/11/10	UWA01100611-00	1	2,331	47,802	94.0	0.9	85	0	0	N/A	
06/11/10	UWK29100611-00	1	401	48,203	94.4	0.7	77	0	0	N/A	
06/11/10	UWD25100611-02	0	40	48,243	76.7	0.3	N/A	0	0	N/A	
06/11/10	UWD25100611-03	0	40	48,283	86.7	0.3	N/A	0	0	N/A	
06/11/10	UWD25100611-04	0	27	48,310	86.7	0.2	N/A	0	0	N/A	
06/11/10	UWD25100611-05	0	54	48,364	91.7	0.4	N/A	0	0	N/A	
06/11/10	UWE01100611-00	1	3,228	51,592	92.3	0.8	N/A	0	0	N/A	
06/14/10	UWE01100614-01	1	1,381	52,973	94.8	0.4	103	0	0	N/A	
06/14/10	UWA01100614-00	1	1,554	54,527	95.5	0.6	81	0	0	N/A	
06/14/10	UWC22100614-01	0	664	55,191	93.3	0.8	N/A	0	0	N/A	
06/14/10	UWC22100614-00	0	0	55,191	92.4	0.0	N/A	0	0	N/A	2
06/14/10	UWE01100614-00	0	2,070	57,261	92.2	0.6	N/A	0	0	N/A	
06/15/10	UWA01100615-01	1	1,541	58,802	93.5	0.5	66	0	0	N/A	
06/15/10	UWE24100615-01	0	614	59,416	95.5	0.8	N/A	0	0	N/A	
06/15/10	UWG24100615-00	0	0	59,416	94.4	0.0	N/A	0	0	N/A	5

A2. RRM
Lift Approval Summary

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 (%)	Notes
06/15/10	UWA01100615-00	0	1,850	61,266	94.9	0.6	N/A	0	0	N/A	
06/15/10	UWE01100615-00	0	2,088	63,354	94.2	0.7	N/A	0	0	N/A	
06/15/10	UWI08100615-00	0	562	63,916	96.9	0.7	N/A	0	0	N/A	
06/15/10	UWE24100615-00	0	0	63,916	91.7	0.0	N/A	0	0	N/A	5
06/16/10	UWG24100616-00	0	146	64,062	96.2	0.7	N/A	0	0	N/A	
06/16/10	UWE01100615-00	1	1,458	65,520	92.9	0.5	73	0	0	N/A	3
06/16/10	UWE21100616-00	0	0	65,520	97.1	0.0	N/A	0	0	N/A	5
06/16/10	UWE21100616-01	0	747	66,267	98.1	0.9	N/A	0	0	N/A	
06/16/10	UWA01100616-00	0	1,708	67,975	92.6	0.7	N/A	0	0	N/A	
06/17/10	UWE18100617-00	0	0	67,975	90.8	0.0	N/A	0	0	N/A	5
06/17/10	UWE01100617-00	1	1,310	69,285	95.8	0.7	73	0	0	N/A	
06/17/10	UWE18100617-01	0	395	69,680	98.0	0.7	N/A	0	0	N/A	
06/17/10	UWA01100617-00	1	1,129	70,809	93.0	0.4	66	0	0	N/A	
06/18/10	UWE01100618-00	0	1,498	72,307	94.2	0.8	N/A	0	0	N/A	
06/18/10	UWD20100618-00	0	146	72,453	87.9	0.2	N/A	0	0	N/A	
06/18/10	UWI08100618-00	0	639	73,092	91.2	0.7	N/A	0	0	N/A	
06/18/10	UWA01100618-00	2	1,975	75,067	91.7	0.7	66,73	0	0	N/A	4
06/21/10	UWE01100621-00	1	1,515	76,582	95.7	0.8	73	0	0	N/A	
06/21/10	UWA01100621-00	0	1,707	78,289	95.0	0.6	N/A	0	0	N/A	
06/21/10	UWE01100621-01	1	1,326	79,615	92.0	0.7	66	0	0	N/A	
06/21/10	UWI08100621-00	0	731	80,346	91.9	0.8	N/A	0	0	N/A	
06/22/10	UWE01100622-00	0	1,515	81,861	92.0	0.7	N/A	0	0	N/A	
06/22/10	UWA01100622-00	1	1,707	83,568	90.8	0.6	77	0	0	N/A	
06/22/10	UWA01100622-01	0	1,609	85,177	94.3	0.6	N/A	0	0	N/A	
06/22/10	UWM29100622-00	0	674	85,851	86.9	0.8	N/A	0	0	N/A	
06/23/10	UWE01100623-00	2	1,286	87,137	89.9	0.6	66,77	0	0	N/A	
06/23/10	UWA01100623-00	0	1,877	89,014	91.4	0.7	N/A	0	0	N/A	
06/23/10	UWE01100623-01	1	1,176	90,190	91.7	0.6	99	0	0	N/A	
06/24/10	UWI12100624-00	0	1,643	91,833	95.2	0.7	N/A	0	0	N/A	
06/24/10	UWA01100624-00	0	1,333	93,166	93.2	0.6	N/A	0	0	N/A	
06/24/10	UWE01100624-00	1	1,568	94,734	94.5	0.8	85	0	0	N/A	
06/24/10	UWA01100624-01	0	1,552	96,286	93.8	0.7	N/A	0	0	N/A	
06/24/10	UWE01100624-01	1	1,155	97,441	91.9	0.7	73	0	0	N/A	
06/25/10	UWA01100625-00	0	1,330	98,771	90.4	0.6	N/A	0	0	N/A	
06/25/10	UWL19100625-00	0	696	99,467	91.6	0.7	N/A	0	0	N/A	
06/25/10	UWE01100625-00	1	1,552	101,019	92.5	0.7	100	0	0	N/A	
06/26/10	UWA01100626-00	1	1,552	102,571	91.1	0.7	73	0	0	N/A	
06/28/10	UWE01100628-01	0	1,105	103,676	88.3	0.7	N/A	0	0	N/A	
06/28/10	UWI08100628-00	1	731	104,407	93.8	0.8	85	0	0	N/A	
06/28/10	UWE01100628-00	0	947	105,354	90.3	0.6	N/A	0	0	N/A	
06/28/10	UWA01100628-00	0	1,330	106,684	89.7	0.6	N/A	0	0	N/A	
06/28/10	UWI12100628-00	1	1,669	108,353	93.1	0.7	77	0	0	N/A	
06/29/10	UWA01100629-00	0	664	109,017	97.3	0.4	N/A	0	0	N/A	
06/29/10	UWE01100629-00	1	993	110,010	96.1	0.7	103	0	0	N/A	
06/29/10	UWI08100629-00	0	693	110,703	97.7	0.7	N/A	0	0	N/A	
06/29/10	UWA01100629-01	0	1,161	111,864	94.2	0.7	N/A	0	0	N/A	
06/29/10	UWE01100629-01	0	709	112,573	94.8	0.5	N/A	0	0	N/A	
06/30/10	UWA01100630-00	1	809	113,382	98.9	0.7	77	0	0	N/A	
06/30/10	UWI01100630-00	0	933	114,315	88.5	0.6	N/A	0	0	N/A	
06/30/10	UWK01100630-00	1	626	114,941	88.6	0.5	73	0	0	N/A	

A2. RRM
Lift Approval Summary

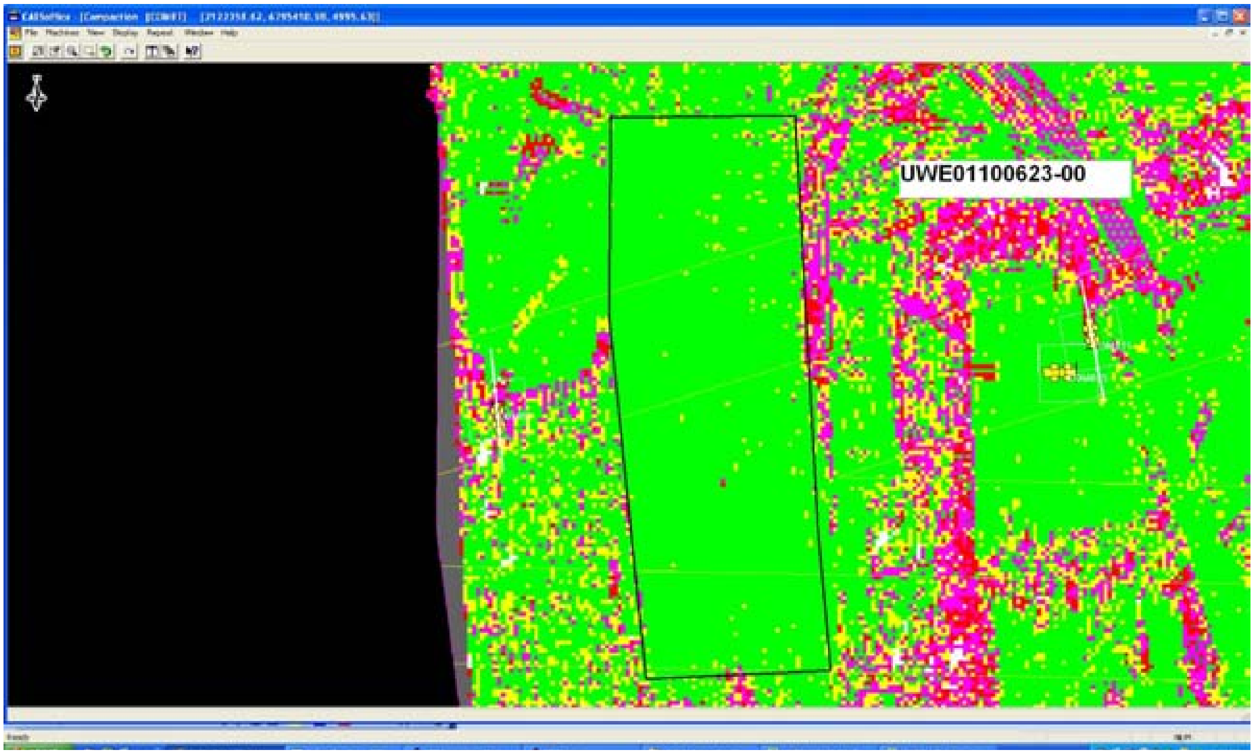
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd³)	Cumulative Quantity Approved (yd³)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
06/30/10	UWI12100630-00	0	1,878	116,819	95.7	0.8	N/A	0	0	N/A	
06/30/10	UWE01100630-00	0	709	117,528	90.1	0.5	N/A	0	0	N/A	
06/30/10	UWI01100630-01	1	836	118,364	92.6	0.5	73	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 91.9
Total Quantity Approved (yd^3) = 118,364
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 41
Quantity per Moisture Test (yd^3) = 2,887
Total Average Thickness (ft) = 0.6

1. Lift material was observed to be visually wet. The lift was allowed to dry and multiple moisture tests were taken throughout the day, until one was taken that produced satisfactory results.
2. Lift area is new and was an old stock pile. The remnants of the stock pile were removed and the lift compacted. This is the reason for a no lift thickness and no quantity approved.
3. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the date and Lift ID #.
4. The lift was placed during both night and day shifts. This is the reason for there being two Proctor ID #s and two moisture tests taken on this one lift.
5. New lift area was created. Material was removed to create lift This explains why there is no volume.

A2. RRM
Lift Approval Summary

CAES compaction screen example from June 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

July 2010											
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 (%)	Notes
07/01/10	UWI01100701-00	0	1,004	1,004	89.3	0.6	N/A	0	0	N/A	
07/01/10	UWE01100701-00	0	709	1,713	92.8	0.5	N/A	0	0	N/A	
07/01/10	UWA01100701-00	0	347	2,060	97.0	0.3	N/A	0	0	N/A	
07/01/10	UWH03100701-00	1	665	2,725	96.2	0.5	73	0	0	N/A	
07/01/10	UWA01100701-01	0	166	2,891	97.9	0.1	N/A	0	0	N/A	
07/01/10	UWE01100701-01	0	47	2,938	93.2	0.3	N/A	0	0	N/A	
07/01/10	UWH03100701-01	0	931	3,869	88.1	0.7	N/A	0	0	N/A	
07/01/10	UWI01100701-01	1	1,338	5,207	87.0	0.8	73	0	0	N/A	
07/02/10	UWI01100702-00	0	836	6,043	84.9	0.5	N/A	0	0	N/A	
07/02/10	UWE01100702-00	0	116	6,159	89.1	0.1	N/A	0	0	N/A	
07/02/10	UWE01100702-01	0	116	6,275	88.1	0.1	N/A	0	0	N/A	
07/02/10	UWH03100702-00	1	931	7,206	90.8	0.7	100	1	0	94.5	
07/02/10	UWL19100702-00	0	679	7,885	90.0	0.6	N/A	0	0	N/A	
07/02/10	UWH03100702-01	0	798	8,683	89.3	0.6	N/A	0	0	N/A	
07/02/10	UWI12100702-00	1	1,375	10,058	96.5	0.5	85	0	0	N/A	
07/06/10	UWI12100706-00	1	1,408	11,466	94.9	0.6	103	0	0	N/A	
07/06/10	UWL19100706-00	0	679	12,145	95.8	0.6	N/A	0	0	N/A	
07/06/10	UWI12100706-01	1	1,627	13,772	96.7	0.6	77	0	0	N/A	
07/06/10	UWH03100706-00	0	931	14,703	91.6	0.7	N/A	0	0	N/A	
07/06/10	UWH03100707-00	0	1,030	15,733	92.5	0.6	N/A	0	0	N/A	
07/06/10	UWH03100707-01	1	1,030	16,763	94.0	0.6	77	0	0	N/A	
07/06/10	UWK26100707-00	0	245	17,008	77.9	0.5	N/A	0	0	N/A	
07/06/10	UWL19100707-00	0	792	17,800	93.6	0.7	N/A	0	0	N/A	
07/06/10	UWI01100707-00	0	678	18,478	84.6	0.7	N/A	0	0	N/A	
07/06/10	UWI12100707-00	0	2,169	20,647	94.3	0.8	N/A	0	0	N/A	
07/06/10	UWI08100707-00	0	1,514	22,161	90.9	0.7	N/A	0	0	N/A	
07/08/10	UWI09100708-00	0	830	22,991	85.7	0.5	N/A	0	0	N/A	
07/08/10	UWI01100708-00	0	388	23,379	94.8	0.4	N/A	0	0	N/A	
07/08/10	UWH03100708-00	1	1,202	24,581	87.4	0.7	81	0	0	N/A	
07/08/10	UWL19100708-00	0	418	24,999	91.5	0.4	N/A	0	0	N/A	
07/09/10	UWH03100709-00	0	1,373	26,372	83.1	0.8	N/A	0	0	N/A	5
07/09/10	UWI09100709-00	0	1,051	27,423	79.9	0.6	N/A	0	0	N/A	5
07/09/10	UWI12100709-00	0	2,157	29,580	95.1	0.7	N/A	0	0	N/A	5
07/10/10	UWI08100709-00	2	1,320	30,900	94.6	0.7	73,77	0	0	N/A	5
07/12/10	UWI08100712-00	0	1,024	31,924	91.3	0.7	N/A	0	0	N/A	
07/12/10	UWH01100712-00	1	1,698	33,622	91.9	0.7	73	0	0	N/A	
07/13/10	UWL08100713-00	0	1,099	34,721	86.9	0.5	N/A	0	0	N/A	
07/13/10	UWH01100713-00	1	1,213	35,934	89.9	0.5	77	0	0	N/A	
07/13/10	UWL08100713-01	1	1,347	37,281	93.5	0.6	99	0	0	N/A	
07/13/10	UWI08100713-00	0	1,024	38,305	96.1	0.7	N/A	0	0	N/A	
07/14/10	UWL19100714-00	0	627	38,932	89.7	0.6	N/A	0	0	N/A	
07/14/10	UWI08100714-01	0	877	39,809	87.3	0.6	N/A	0	0	N/A	
07/14/10	UWL08100714-00	0	1,347	41,156	89.2	0.6	N/A	0	0	N/A	
07/14/10	UWL08100714-01	1	1,571	42,727	92.1	0.7	99	0	0	N/A	
07/14/10	UWI08100714-00	0	866	43,593	92.9	0.6	N/A	0	0	N/A	
07/14/10	UWM29100714-00	1	168	43,761	86.5	0.2	103	0	0	N/A	
07/15/10	UWL08100715-00	0	1,429	45,190	95.9	0.8	N/A	0	0	N/A	
07/15/10	UWI08100715-00	1	1,251	46,441	89.4	0.7	103	0	0	N/A	
07/15/10	UWI08100715-01	1	1,095	47,536	94.9	0.8	99	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
07/16/10	UWL08100716-00	0	1,251	48,787	81.6	0.7	N/A	0	0	N/A	
07/16/10	UWI08100716-00	1	958	49,745	81.7	0.7	99	0	0	N/A	
07/16/10	UWL08100716-01	0	1,537	51,282	90.5	0.8	N/A	0	0	N/A	
07/16/10	UWK27100716-00	0	737	52,019	86.0	0.7	N/A	0	0	N/A	
07/16/10	UWI08100716-01	1	958	52,977	90.4	0.7	99	0	0	N/A	
07/19/10	UWI08100719-00	0	1,213	54,190	89.5	0.7	N/A	0	0	N/A	
07/19/10	UWI12100719-00	1	1,934	56,124	94.6	0.6	99	0	0	N/A	
07/19/10	UWL08100719-00	0	893	57,017	95.1	0.5	N/A	0	0	N/A	
07/19/10	UWH01100719-00	1	1,227	58,244	96.2	0.6	89	0	0	N/A	
07/19/10	UWL19100719-00	0	1,173	59,417	94.3	0.7	N/A	0	0	N/A	
07/20/10	UWL08100720-00	2	1,004	60,421	94.5	0.7	66,99	0	0	N/A	1
07/21/10	UWL19100721-00	0	1,187	61,608	91.2	0.5	N/A	0	0	N/A	
07/21/10	UWI08100721-00	1	1,038	62,646	95.9	0.6	66	0	0	N/A	
07/22/10	UWM29100722-00	0	435	63,081	93.9	0.7	N/A	0	0	N/A	
07/22/10	UWL08100722-00	0	1,147	64,228	90.3	0.8	N/A	0	0	N/A	
07/22/10	UWL19100722-00	1	1,745	65,973	92.1	0.7	119	0	0	N/A	
07/22/10	UWH01100722-00	1	1,228	67,201	98.1	0.6	66	0	0	N/A	
07/22/10	UWL08100722-01	0	1,109	68,310	93.3	0.7	N/A	0	0	N/A	
07/23/10	UWI08100723-00	0	925	69,235	98.1	0.6	N/A	0	0	N/A	
07/23/10	UWI12100723-00	2	2,686	71,921	92.5	0.8	119	0	0	N/A	2
07/26/10	UWL08100726-00	2	990	72,911	93.4	0.7	73	0	0	N/A	2
07/26/10	UWI08100726-00	0	1,233	74,144	96.4	0.8	N/A	0	0	N/A	
07/27/10	UWM12100727-00	0	1,850	75,994	98.9	0.6	N/A	0	0	N/A	
07/27/10	UWP27100727-01	0	418	76,412	94.3	0.5	N/A	0	0	N/A	6
07/27/10	UWI08100727-00	1	0	76,412	98.1	0.0	73	0	0	N/A	3
07/27/10	UWP27100727-00	0	0	76,412	92.5	0.0	N/A	0	0	N/A	
07/27/10	UWL19100727-01	1	1,743	78,155	97.1	0.7	119	0	0	N/A	
07/27/10	UWL19100727-00	2	1,494	79,649	95.5	0.6	51,73	0	0	N/A	4
07/28/10	UWL19100728-00	1	2,089	81,738	93.7	0.7	77	0	0	N/A	
07/29/10	UWA17100729-00	1	6	81,744	100.0	0.5	85	0	0	N/A	
07/29/10	UWA17100729-01	0	7	81,751	84.4	0.6	N/A	0	0	N/A	
07/29/10	UWI08100729-00	1	1,124	82,875	95.0	0.8	117	0	0	N/A	
07/29/10	UWM12100729-00	1	1,962	84,837	92.4	0.7	113	0	0	N/A	
07/29/10	UWL19100729-00	0	2,387	87,224	86.4	0.8	N/A	0	0	N/A	
07/30/10	UWL08100730-00	0	1,131	88,355	94.4	0.8	N/A	0	0	N/A	
07/30/10	UWI08100730-00	1	984	89,339	94.9	0.7	94	0	0	N/A	

A2. RRM
Lift Approval Summary

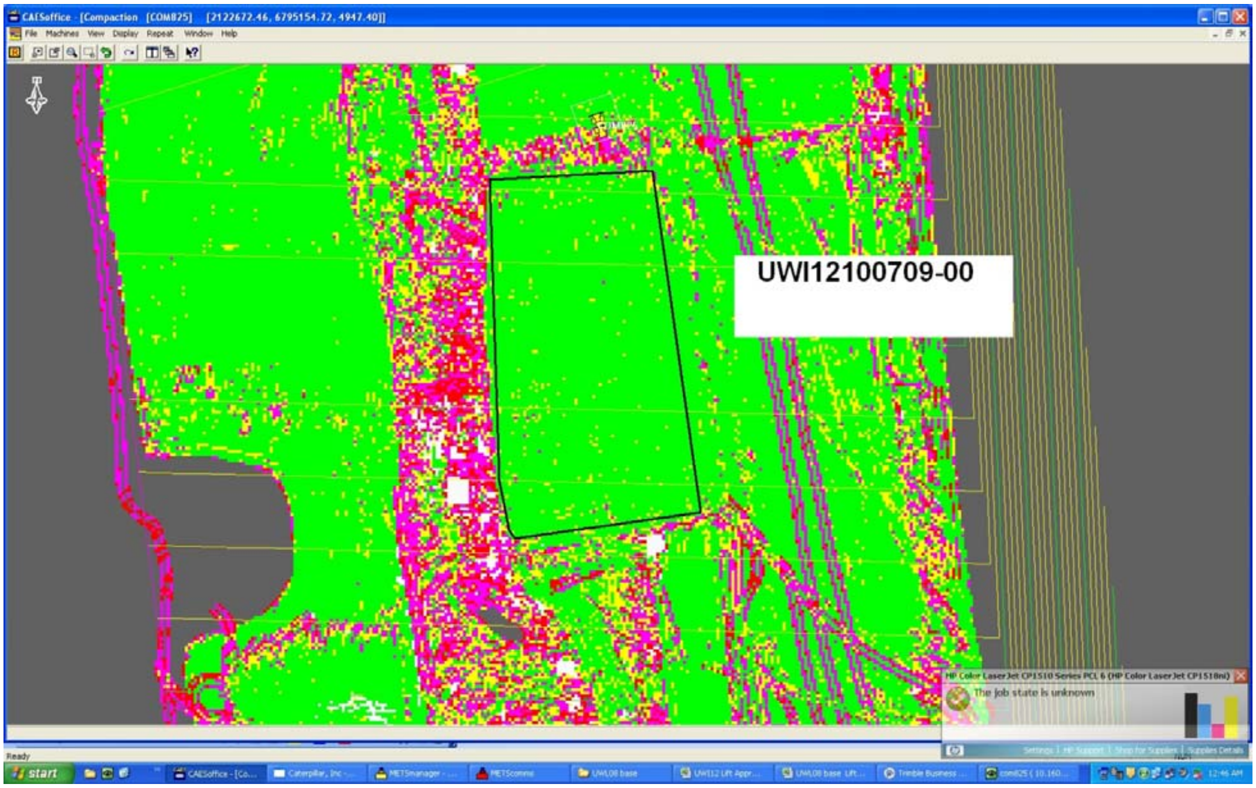
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
07/30/10	UWN19100730-00	1	1,676	91,015	94.6	0.5	73	0	0	N/A	2

Average CAES Screen Passing Pixels (%) = 91.8
Total Quantity Approved (yd^3) = 91,015
Total # of Nuclear Density Gauge Tests = 1
Total # of Moisture Tests = 40
Quantity per Moisture Test (yd^3) = 2,275
Total Average Thickness (ft) = 0.6

1. Lift moisture content was too high. The lift was allowed to dry, reworked, and recompacted. Multiple moisture tests were performed in order to ensure that satisfactory moisture content was obtained.
2. The lift was placed on an earlier date than it was compacted. An extra moisture test was taken prior to compaction, in order to ensure that satisfactory moisture content was still present. This is why there were two moisture tests taken on this lift.
3. Lift was created due to the fact that a rainstorm caused excessive moisture on the lift. The lift was reworked, recompacted, and retested until satisfactory results were obtained. This is why the average lift thickness is zero and there was no quantity approved.
4. A moisture test was taken on the lift prior to placement and another during placement to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
5. No moisture data.
6. New lift; no material was placed.

A2. RRM
Lift Approval Summary

CAES compaction screen example from July 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

August 2010											
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 (%)	Notes
08/02/10	UWI12100802-00	4	2,044	2,044	93.7	0.6	73	0	0	N/A	1
08/02/10	UWL08100802-00	2	980	3,024	94.7	0.8	113	0	0	N/A	1
08/03/10	UWS11100803-00	1	1,262	4,286	97.0	0.6	119	0	0	N/A	
08/04/10	UWI08100804-00	2	0	4,286	93.5	0.0	73	0	0	N/A	3
08/04/10	UWV11100804-00	1	1,491	5,777	92.3	0.7	110	0	0	N/A	
08/04/10	UWR12100804-00	0	520	6,297	97.2	0.7	N/A	0	0	N/A	
08/04/10	UWN19100804-00	1	0	6,297	98.5	0.0	119	0	0	N/A	3
08/04/10	UWV11100804-01	0	1,430	7,727	89.1	0.7	N/A	0	0	N/A	
08/04/10	UWH01100804-00	1	0	7,727	96.4	0.0	92	0	0	N/A	3
08/04/10	UWL19100804-00	2	0	7,727	92.7	0.0	73	0	0	N/A	3
08/04/10	UWM12100804-00	1	1,901	9,628	92.5	0.8	113	0	0	N/A	
08/05/10	UWR12100805-00	1	372	10,000	93.1	0.5	73	0	0	N/A	
08/05/10	UWS11100805-00	0	1,052	11,052	89.2	0.5	N/A	0	0	N/A	
08/06/10	UWN19100806-00	2	2,164	13,216	97.3	0.7	77	0	0	N/A	1
08/06/10	UWR12100806-00	1	1,885	15,101	91.9	0.8	119	0	0	N/A	
08/09/10	UWI08100809-00	0	837	15,938	N/A	N/A	N/A	0	0	N/A	
08/09/10	UWV11100809-00	1	1,429	17,367	98.4	0.7	89	0	0	N/A	
08/10/10	UWL08100810-00	0	1,004	18,371	N/A	N/A	N/A	0	0	N/A	
08/10/10	UWI12100810-00	1	2,385	20,756	98.1	0.7	81	0	0	N/A	
08/11/10	UWH01100811-00	0	1,065	21,821	92.1	0.7	N/A	0	0	N/A	
08/11/10	UWK27100811-00	1	690	22,511	91.6	0.7	73	0	0	N/A	
08/11/10	UWI08100811-00	1	973	23,484	93.2	0.7	73	0	0	N/A	
08/11/10	UWL08100811-00	1	1,075	24,559	92.2	0.7	113	0	0	N/A	
08/12/10	UWR12100812-00	1	1,635	26,194	94.1	0.7	119	0	0	N/A	
08/13/10	UWH01100813-00	0	568	26,762	95.4	0.5	N/A	0	0	N/A	
08/13/10	UWH06100813-00	1	2,575	29,337	95.0	0.8	25	0	0	N/A	
08/13/10	UWH06100812-00	0	2,575	31,912	93.9	0.8	N/A	0	0	N/A	2
08/13/10	UWV11100810-00	0	1,497	33,409	95.3	0.6	N/A	0	0	N/A	2
08/13/10	UWI12100813-00	2	2,495	35,904	96.5	0.7	113,119	0	0	N/A	1
08/16/10	UWV11100816-00	0	1,855	37,759	92.3	0.8	N/A	0	0	N/A	
08/17/10	UWJ21100817-00	1	882	38,641	99.3	0.9	Radon Barrier #8	0	0	N/A	4
08/17/10	UWR12100817-00	1	1,641	40,282	94.3	0.7	99	0	0	N/A	
08/17/10	UWV11100817-00	1	1,564	41,846	96.0	0.7	113	0	0	N/A	
08/18/10	UWJ21100818-00	0	784	42,630	98.1	0.8	N/A	0	0	N/A	
08/18/10	UWK28100817-00	1	1,705	44,335	96.5	0.7	94	0	0	N/A	2
08/18/10	UWM12100818-00	1	1,691	46,026	98.3	0.7	73	0	0	N/A	
08/19/10	UWJ21100819-00	0	686	46,712	97.0	0.7	N/A	0	0	N/A	
08/19/10	UWN19100819-00	2	2,426	49,138	96.5	0.7	77,117	0	0	N/A	1
08/20/10	UWH06100820-00	0	1,855	50,993	95.5	0.6	N/A	0	0	N/A	
08/20/10	UWJ21100820-01	0	878	51,871	97.9	0.6	N/A	0	0	N/A	
08/20/10	UWR12100818-00	1	1,647	53,518	95.0	0.7	125	0	0	N/A	2
08/20/10	UWJ21100820-02	0	1,025	54,543	97.7	0.7	117	0	0	N/A	
08/20/10	UWJ21100820-00	0	1,171	55,714	92.5	0.8	N/A	0	0	N/A	
08/23/10	UWJ21100823-00	1	1,025	56,739	96.1	0.7	136	0	0	N/A	
08/23/10	UWJ21100823-01	1	1,551	58,290	96.4	0.8	134	0	0	N/A	
08/23/10	UWI21100823-00	1	2,740	61,030	94.1	0.8	125	0	0	N/A	
08/24/10	UWJ21100824-00	0	1,745	62,775	97.7	0.9	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

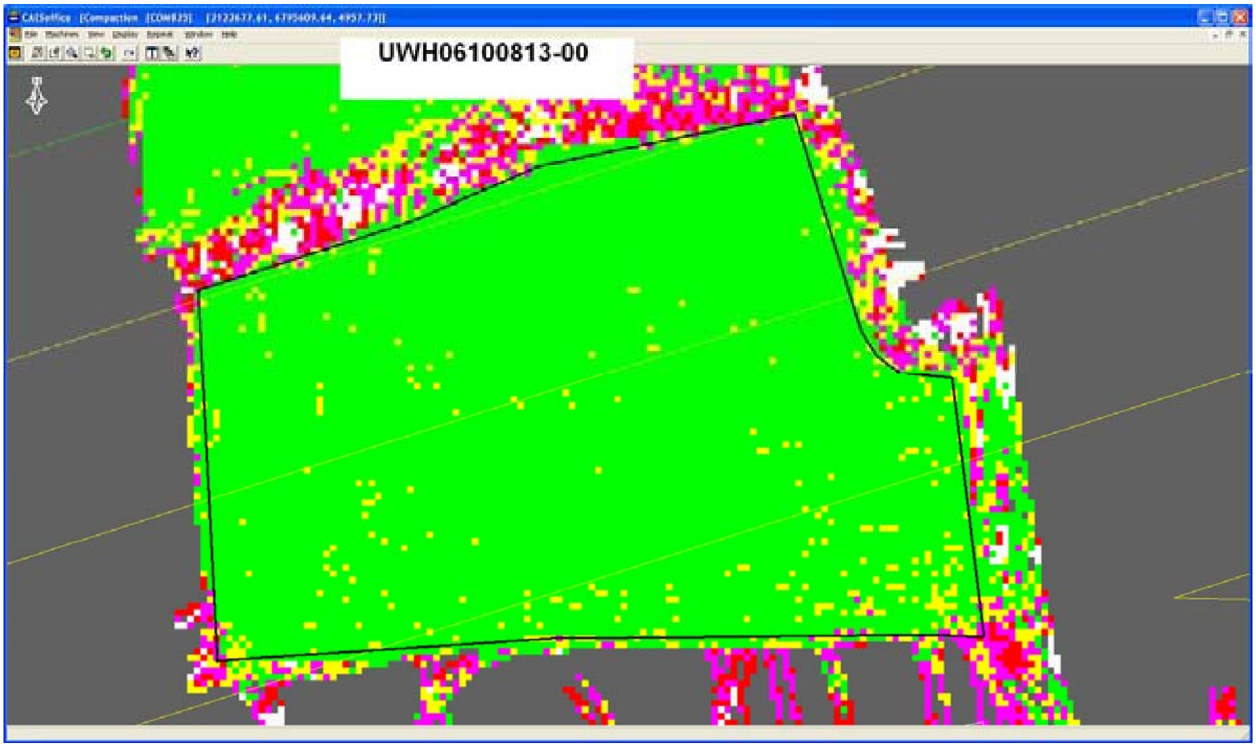
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
08/25/10	UWJ21100825-00	1	1,851	64,626	96.6	0.8	136	0	0	N/A	
08/25/10	UWV11100820-00	0	1,526	66,152	93.2	0.7	N/A	0	0	N/A	2
08/25/10	UWJ21100825-01	1	1,612	67,764	96.4	0.6	89	0	0	N/A	
08/26/10	UWJ21100826-00	1	2,148	69,912	97.0	0.9	73	0	0	N/A	
08/26/10	UWM12100826-00	1	1,957	71,869	97.0	0.7	125	0	0	N/A	
08/27/10	UWI12100827-00	1	2,916	74,785	97.8	0.8	73	0	0	N/A	
08/27/10	UWN19100827-00	1	2,026	76,811	94.8	0.6	103	0	0	N/A	
08/28/10	UWI12100828-00	1	2,208	79,019	98.2	0.6	135	0	0	N/A	
08/30/10	UWM12100830-00	1	1,825	80,844	97.7	0.7	73	0	0	N/A	
08/30/10	UWG01100830-06	0	39	80,883	79.1	0.4	N/A	0	0	N/A	
08/30/10	UWG01100830-05	0	23	80,906	77.3	0.6	N/A	0	0	N/A	
08/30/10	UWG01100830-04	0	16	80,922	75.8	0.4	N/A	0	0	N/A	
08/30/10	UWG01100830-03	0	23	80,945	70.7	0.6	N/A	0	0	N/A	
08/30/10	UWG01100830-02	0	10	80,955	83.0	0.5	N/A	0	0	N/A	
08/30/10	UWG01100830-01	0	5	80,960	77.4	0.4	N/A	0	0	N/A	
08/30/10	UWG01100830-00	0	5	80,965	87.1	0.4	N/A	0	0	N/A	
08/31/10	UWG01100831-00	0	39	81,004	79.9	0.4	N/A	0	0	N/A	
08/31/10	UWG01100831-01	0	39	81,043	85.4	0.4	N/A	0	0	N/A	
08/31/10	UWN19100831-00	1	1,957	83,000	98.4	0.7	77	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 93.1
Total Quantity Approved (yd^3) = 83,000
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 48
Quantity per Moisture Test (yd^3) = 1,729
Total Average Thickness (ft) = 0.6

1. Lift was worked on for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
2. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the date and Lift ID #.
3. Lift was created due to the fact that a rainstorm caused excessive moisture on the lift. The lift was reworked, recompacted, and retested until satisfactory results were obtained. This is why the average lift thickness is zero and there was no quantity approved.
4. This was a new lift on the cell floor. A moisture test was taken from the cell floor prior to placement of RRM in order to ensure proper moisture content. This is why the Proctor ID # is Radon Barrier #8.

A2. RRM
Lift Approval Summary

CAES compaction screen example from August 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

September 2010											
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 (%)	Notes
09/01/10	UWM12100901-00	0	1,564	1,564	93.2	0.6	N/A	0	0	N/A	5
09/01/10	UWI12100901-00	0	2,640	4,204	94.8	0.7	N/A	0	0	N/A	5
09/02/10	UWH06100902-00	0	1,887	6,091	94.8	0.7	N/A	0	0	N/A	
09/02/10	UWN19100902-00	1	2,364	8,455	98.3	0.7	77	0	0	N/A	
09/02/10	UWJ21100902-00	2	2,157	10,612	92.7	0.6	119	0	0	N/A	1
09/07/10	UWI12100907-00	0	2,599	13,211	98.2	0.7	N/A	0	0	N/A	2
09/07/10	UWK28100907-00	0	1,743	14,954	93.4	0.8	N/A	0	0	N/A	2
09/08/10	UWR12100907-00	0	1,502	16,456	96.9	0.8	N/A	0	0	N/A	3
09/08/10	UWN19100908-00	1	2,018	18,474	98.3	0.7	66	0	0	N/A	5
09/09/10	UWJ21100909-00	0	2,450	20,924	97.7	0.7	N/A	0	0	N/A	5
09/09/10	UWK28100909-00	1	1,525	22,449	97.0	0.7	134	0	0	N/A	5
09/09/10	UWH06100909-00	1	1,888	24,337	96.3	0.7	117	0	0	N/A	5
09/10/10	UWJ21100910-00	0	2,163	26,500	97.0	0.7	N/A	0	0	N/A	5
09/10/10	UWI12100910-00	2	2,970	29,470	98.3	0.8	100,103	0	0	N/A	1,5
09/10/10	UWV11100910-00	0	1,497	30,967	91.9	0.8	N/A	0	0	N/A	
09/13/10	UWH06100913-00	1	1,868	32,835	94.3	0.7	117	0	0	N/A	
09/14/10	UWK28100914-00	1	2,225	35,060	94.2	0.9	89,125	0	0	N/A	1
09/14/10	UWH01100914-00	0	1,026	36,086	94.1	0.5	N/A	0	0	N/A	
09/14/10	UWI12100914-00	2	3,122	39,208	96.5	0.8	66,136	0	0	N/A	1
09/14/10	UWH06100914-00	0	1,601	40,809	94.0	0.6	N/A	0	0	N/A	
09/14/10	UWR12100914-00	0	1,314	42,123	92.9	0.7	N/A	0	0	N/A	
09/15/10	UWV11100915-00	0	1,382	43,505	95.1	0.8	N/A	0	0	N/A	
09/15/10	UWR12100915-00	1	1,245	44,750	94.3	0.7	66	0	0	N/A	
09/16/10	UWH06100916-00	1	1,861	46,611	87.6	0.7	125	0	0	N/A	
09/16/10	UWJ21100916-00	1	3,275	49,886	93.2	0.7	103	0	0	N/A	
09/17/10	UWR12100917-00	0	1,245	51,131	98.7	0.7	N/A	0	0	N/A	4
09/17/10	UWN19100917-00	0	2,296	53,427	97.0	0.8	N/A	0	0	N/A	4
09/17/10	UWM12100917-00	0	1,188	54,615	97.9	0.6	N/A	0	0	N/A	4
09/20/10	UWH06100920-00	1	1,861	56,476	91.5	0.7	89	0	0	N/A	
09/20/10	UWI12100920-00	2	2,649	59,125	94.5	0.7	103,134	0	0	N/A	1
09/20/10	UWR12100920-00	2	1,124	60,249	95.1	0.6	119	0	0	N/A	1
09/21/10	UWV11100921-00	0	1,239	61,488	94.9	0.8	N/A	0	0	N/A	5
09/21/10	UWJ21100921-00	0	3,780	65,268	93.8	0.8	N/A	0	0	N/A	5
09/23/10	UWN19100923-01	1	933	66,201	91.7	0.3	73	0	0	N/A	
09/23/10	UWN19100923-00	1	1,865	68,066	96.6	0.6	66	0	0	N/A	
09/23/10	UWK28100923-00	2	924	68,990	92.9	0.7	125,136	0	0	N/A	1
09/23/10	UWM12100923-00	1	797	69,787	92.8	0.4	103	0	0	N/A	
09/24/10	UWK28100924-00	0	132	69,919	94.2	0.1	N/A	0	0	N/A	
09/24/10	UWN19100924-00	1	2,550	72,469	95.6	0.8	117	0	0	N/A	
09/24/10	UWM12100924-00	1	200	72,669	90.5	0.1	117	0	0	N/A	
09/24/10	UWH06100924-00	3	1,707	74,376	91.9	0.6	117,136	0	0	N/A	1
09/25/10	UWK28100925-00	0	981	75,357	82.6	0.7	N/A	0	0	N/A	5
09/27/10	UWP30100927-00	0	531	75,888	93.4	0.8	N/A	0	0	N/A	
09/27/10	UWN19100927-00	1	2,550	78,438	89.2	0.8	117	0	0	N/A	
09/27/10	UWV11100927-00	1	1,080	79,518	95.8	0.7	117	0	0	N/A	
09/27/10	UWM12100927-00	0	1,491	81,009	92.5	0.7	N/A	0	0	N/A	
09/28/10	UWV11100928-00	0	1,234	82,243	89.0	0.8	N/A	0	0	N/A	
09/28/10	UWN19100928-00	0	1,913	84,156	90.0	0.6	N/A	0	0	N/A	
09/28/10	UWP30100928-00	0	711	84,867	80.6	0.8	N/A	0	0	N/A	

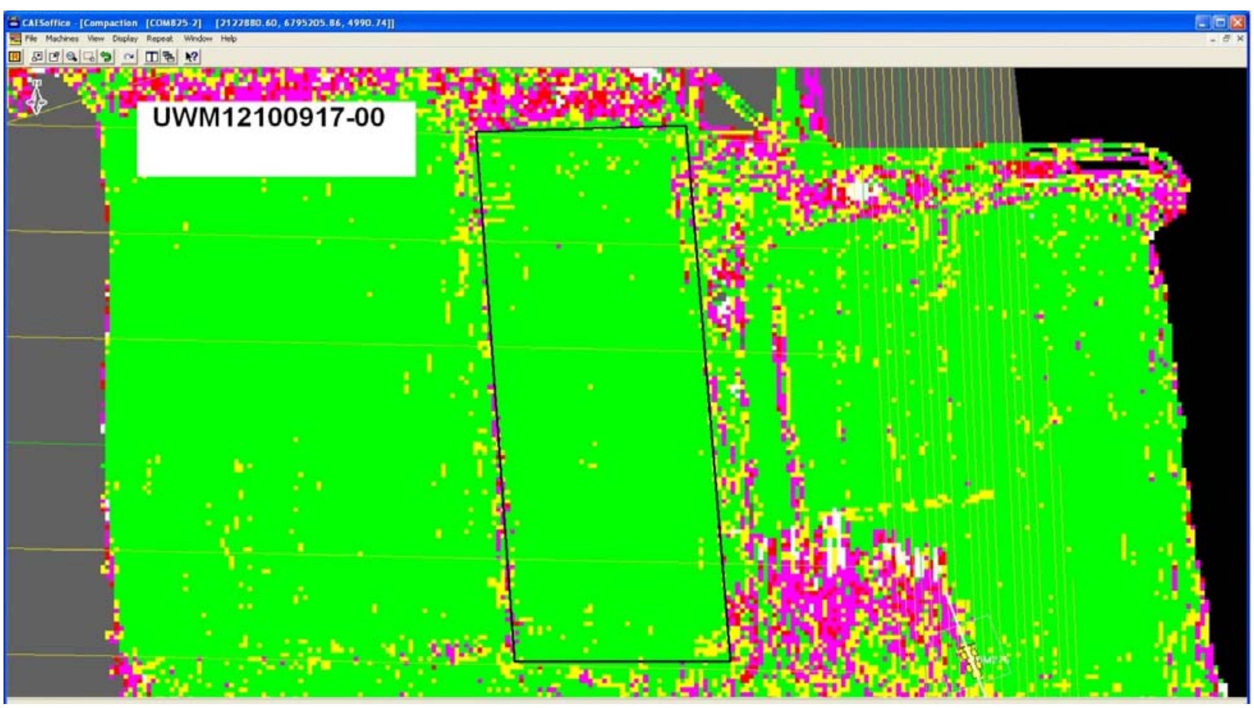
A2. RRM
Lift Approval Summary

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 (%)	Notes
09/28/10	UWI12100928-00	2	3,083	87,950	95.4	0.8	66,134	0	0	N/A	1
09/29/10	UWI12100929-00	0	3,037	90,987	94.4	0.8	N/A	0	0	N/A	
09/29/10	UWN19100929-00	2	1,184	92,171	87.4	0.5	103	0	0	N/A	1
09/29/10	UWR12100929-00	0	1,309	93,480	97.3	0.8	N/A	0	0	N/A	
09/30/10	UWJ21100930-00	1	2,862	96,342	95.8	0.6	66	0	0	N/A	
09/30/10	UWM12100930-00	2	662	97,004	94.1	0.4	89,103	0	0	N/A	1

Average CAES Screen Passing Pixels (%) = 93.9
Total Quantity Approved (yd^3) = 97,004
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 39
Quantity per Moisture Test (yd^3) = 2,487
Total Average Thickness (ft) = 0.7

1. Lift was worked on for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
2. Moisture test for 09/07/10 can be found on UWJ21100902-00.
3. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the date and the Lift ID #.
4. Moisture test for 09/17/10 can be found on UWJ21100916-00.
5. No moisture data.

CAES compaction screen example from September 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

October 2010												
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 (%)	Notes
10/01/10	UWR12101001-00	1	2,427	2,427	97.1	0.9	100	0	0	N/A	
10/01/10	UWR06101001-00	2	1,650	4,077	96.7	0.7	66	0	0	N/A	1
10/04/10	UWJ21101004-00	4	3,290	7,367	92.2	0.7	89	0	0	N/A	2
10/04/10	UWP30101004-00	0	711	8,078	83.7	0.8	N/A	0	0	N/A	
10/04/10	UWI12101002-00	2	2,866	10,944	95.5	0.8	103	0	0	N/A	3,4
10/04/10	UWP30101004-01	1	534	11,478	80.7	0.6	146	0	0	N/A	
10/05/10	UWK28101005-00	0	987	12,465	96.9	0.8	N/A	0	0	N/A	
10/05/10	UWH06101005-00	1	240	12,705	93.0	0.1	89	0	0	N/A	
10/05/10	UWJ21101005-00	3	3,290	15,995	95.8	0.7	43,89	0	0	N/A	3
10/06/10	UWK28101006-00	2	896	16,891	97.8	0.7	123,136	0	0	N/A	5
10/08/10	UWH06101008-01	1	1,201	18,092	91.8	0.5	140	0	0	N/A	
10/08/10	UWH06101008-00	1	960	19,052	91.4	0.4	152	0	0	N/A	
10/11/10	UWI12101011-00	0	2,866	21,918	93.4	0.8	N/A	0	0	N/A	6
10/11/10	UWP01101011-00	0	2,605	24,523	93.9	0.8	N/A	0	0	N/A	6
10/12/10	UWI12101012-01	1	3,224	27,747	89.8	0.9	82	0	0	N/A	
10/12/10	UWI12101012-00	2	2,866	30,613	93.7	0.8	82,146	0	0	N/A	7
10/12/10	UWP30101012-00	0	356	30,969	93.0	0.4	N/A	0	0	N/A	
10/12/10	UWH06101012-00	0	1,261	32,230	85.7	0.6	N/A	0	0	N/A	
10/13/10	UWI12101013-00	1	2,086	34,316	91.5	0.6	140	0	0	N/A	
10/13/10	UWR12101013-00	1	2,427	36,743	95.6	0.9	56	0	0	N/A	
10/13/10	UWP30101013-01	1	623	37,366	95.2	0.7	123	0	0	N/A	
10/13/10	UWP30101013-00	0	623	37,989	86.4	0.7	N/A	0	0	N/A	
10/14/10	UWP30101014-00	0	643	38,632	91.6	0.6	N/A	0	0	N/A	
10/14/10	UWP01101014-00	1	2,633	41,265	91.1	0.8	51	0	0	N/A	
10/15/10	UWO17101015-00	0	0	41,265	89.3	0.0	N/A	0	0	N/A	
10/15/10	UWO17101015-01	0	147	41,412	89.7	0.4	N/A	0	0	N/A	
10/15/10	UWO17101015-02	0	184	41,596	90.9	0.5	N/A	0	0	N/A	
10/15/10	UWJ21101015-00	1	3,372	44,968	91.7	0.7	134	0	0	N/A	
10/16/10	UWP01101016-00	1	1,975	46,943	92.4	0.6	146	0	0	N/A	
10/16/10	UWM12101016-00	1	1,484	48,427	96.5	0.8	89	0	0	N/A	
10/18/10	UWH06101018-00	1	1,142	49,569	92.4	0.5	140	0	0	N/A	
10/18/10	UWI12101018-00	0	2,048	51,617	92.3	0.5	N/A	0	0	N/A	
10/19/10	UWK28101019-00	1	135	51,752	98.9	0.1	152	0	0	N/A	
10/19/10	UWH06101019-00	1	1,599	53,351	92.7	0.7	27	0	0	N/A	
10/19/10	UWJ21101019-00	2	3,544	56,895	95.4	0.7	82	0	0	N/A	7
10/20/10	UWP01101019-00	2	2,835	59,730	89.6	0.9	117	0	0	N/A	3
10/20/10	UWM12101020-00	3	1,180	60,910	98.4	0.5	82,123	0	0	N/A	3
10/20/10	UWJ21101020-00	3	2,201	63,111	91.3	0.8	51,56	0	0	N/A	3
10/20/10	UWI12101020-00	0	2,867	65,978	88.2	0.7	N/A	0	0	N/A	
10/21/10	UWN19101021-00	1	481	66,459	95.9	0.2	60	0	0	N/A	
10/21/10	UWR12101021-00	0	1,889	68,348	93.8	0.7	N/A	0	0	N/A	
10/21/10	UWI12101021-00	3	2,867	71,215	91.1	0.7	99	0	0	N/A	3
10/25/10	UWR12101025-00	1	1,540	72,755	96.7	0.6	82	0	0	N/A	
10/26/10	UWI24101026-00	0	1,690	74,445	97.2	0.7	N/A	0	0	N/A	
10/26/10	UWI12101026-00	1	2,867	77,312	92.7	0.7	143	0	0	N/A	
10/26/10	UWJ21101026-00	1	2,392	79,704	91.1	0.9	103	0	0	N/A	
10/27/10	UWI12101027-00	0	2,692	82,396	96.2	0.8	143	0	0	N/A	
10/27/10	UWI24101027-00	1	1,931	84,327	97.3	0.8	66	0	0	N/A	

A2. RRM
Lift Approval Summary

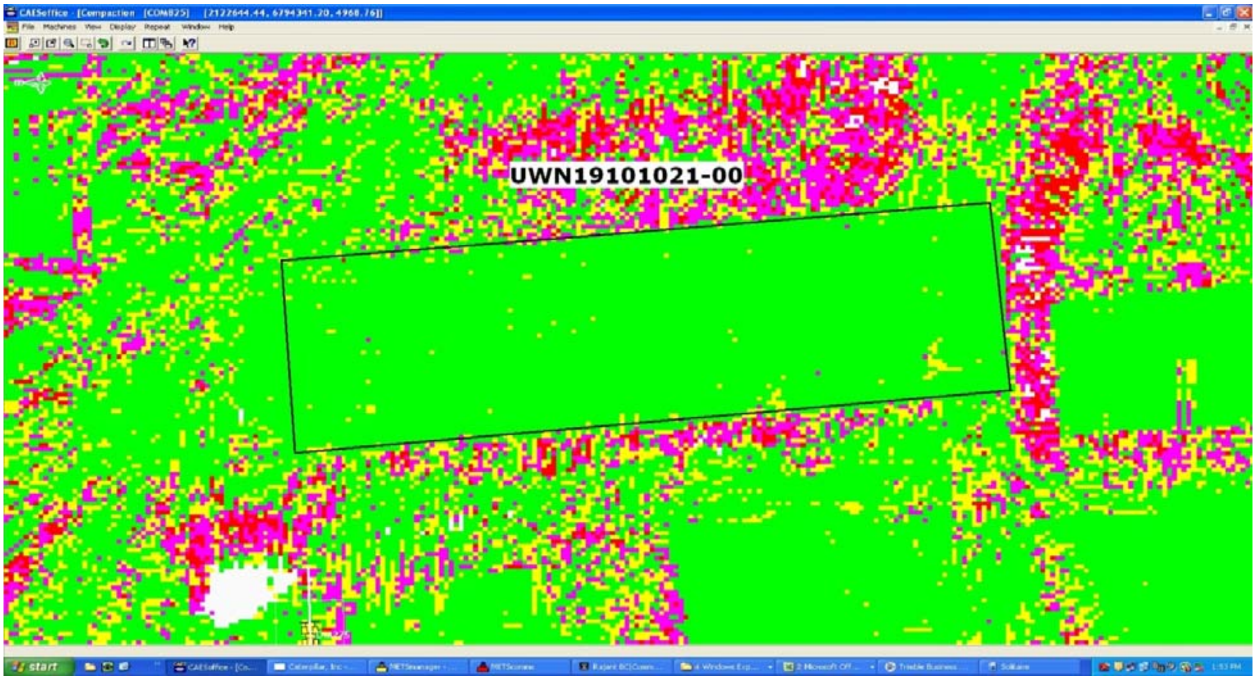
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
10/28/10	UWI12101028-00	1	2,486	86,813	93.9	0.8	66	0	0	N/A	
10/28/10	UWJ21101028-00	1	2,329	89,142	91.3	0.9	66	0	0	N/A	
10/28/10	UWR12101028-00	0	2,053	91,195	95.1	0.8	N/A	0	0	N/A	
10/29/10	UWM12101029-00	1	1,250	92,445	91.6	0.8	66	0	0	N/A	
10/29/10	UWK28101029-00	1	239	92,684	93.3	0.2	152	0	0	N/A	
10/29/10	UWP30101029-00	1	634	93,318	95.0	0.7	140	0	0	N/A	
10/29/10	UWI24101029-00	0	2,137	95,455	97.0	0.9	66	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 93.0
Total Quantity Approved (yd^3) = 95,455
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 54
Quantity per Moisture Test (yd^3) = 1,768
Total Average Thickness (ft) = 0.7

1. A stockpile was placed on this lift after its approval. When the pile was removed, a moisture test was taken in order to ensure that the moisture content of the lift was still satisfactory. This is why there are multiple moisture tests.
2. The lift was allowed to dry due to the fact that it was too wet. After drying, multiple tests were taken to ensure that the moisture content was satisfactory.
3. After approval, excessive moisture occurred on the lift due to rain. The lift was dragged, allowed to dry, and then an additional moisture test was taken to ensure satisfactory moisture content. This is why there are multiple moisture tests.
4. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the date and the Lift ID #.
5. A moisture test was taken on the underlying lift prior to placement and another during placement, to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
6. Moisture test for 10/11/10 can be found on UWH06101008-01.
7. Lift was worked on for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.

A2. RRM
Lift Approval Summary

CAES compaction screen example from October 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

November 2010											
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 (%)	Notes
11/01/10	UWK28101029-01	1	1,076	1,076	97.9	0.8	66	0	0	N/A	1
11/01/10	UWJ21101101-00	1	1,941	3,017	96.0	0.8	66	0	0	N/A	
11/02/10	UWP01101102-00	0	2,836	5,853	94.8	0.9	N/A	0	0	N/A	
11/02/10	UWM12101102-00	1	1,887	7,740	92.0	0.8	66	0	0	N/A	
11/02/10	UWI12101102-00	1	2,019	9,759	91.3	0.6	66	0	0	N/A	
11/02/10	UWI12101102-00	0	1,900	11,659	89.0	0.8	N/A	0	0	N/A	
11/03/10	UWI12101103-00	1	2,019	13,678	96.1	0.6	146	0	0	N/A	
11/03/10	UWS27101103-00	0	291	13,969	97.5	0.6	N/A	0	0	N/A	
11/03/10	UWM12101103-00	1	1,887	15,856	91.0	0.8	154	0	0	N/A	
11/03/10	UWP30101103-00	0	554	16,410	85.8	0.7	N/A	0	0	N/A	
11/04/10	UWS27101104-00	0	194	16,604	92.6	0.4	N/A	0	0	N/A	
11/04/10	UWR12101104-00	0	1,540	18,144	90.4	0.6	N/A	0	0	N/A	
11/04/10	UWI12101104-00	2	3,028	21,172	92.6	0.9	77,158	0	0	N/A	2
11/05/10	UWR05101105-00	0	555	21,727	97.1	0.8	N/A	0	0	N/A	
11/05/10	UWR05101105-01	0	625	22,352	94.8	0.9	N/A	0	0	N/A	
11/05/10	UWM12101105-00	0	1,415	23,767	87.8	0.6	N/A	0	0	N/A	
11/05/10	UWI12101105-00	1	2,019	25,786	90.7	0.6	125	0	0	N/A	
11/05/10	UWH06101105-00	2	1,564	27,350	87.0	0.6	27,125	0	0	N/A	3
11/08/10	UWR05101108-00	0	555	27,905	85.5	0.8	N/A	0	0	N/A	
11/08/10	UWH06101108-01	1	1,825	29,730	93.3	0.7	27	0	0	N/A	
11/08/10	UWI12101108-00	0	2,242	31,972	97.4	0.7	N/A	0	0	N/A	
11/08/10	UWH06101108-00	1	1,825	33,797	89.4	0.7	27	0	0	N/A	
11/09/10	UWH06101109-01	0	1,722	35,519	92.0	0.6	N/A	0	0	N/A	
11/09/10	UWH06101109-00	1	2,009	37,528	97.5	0.7	134	0	0	N/A	
11/09/10	UWR12101109-00	1	1,281	38,809	93.0	0.6	140	0	0	N/A	
11/09/10	UWR05101109-00	0	533	39,342	87.7	0.5	N/A	0	0	N/A	
11/10/10	UWH06101110-01	0	631	39,973	96.5	0.2	N/A	0	0	N/A	
11/10/10	UWJ21101110-00	1	2,025	41,998	94.3	0.7	123	0	0	N/A	
11/10/10	UWI12101110-00	1	2,317	44,315	94.8	0.7	134	0	0	N/A	
11/10/10	UWH06101110-00	0	1,148	45,463	97.0	0.4	N/A	0	0	N/A	
11/11/10	UWH06101111-00	0	1,144	46,607	90.7	0.6	N/A	0	0	N/A	
11/11/10	UWI24101111-00	1	1,579	48,186	96.8	0.8	158	0	0	N/A	
11/12/10	UWR12101112-00	0	1,729	49,915	95.9	0.7	N/A	0	0	N/A	
11/12/10	UWJ21101112-00	0	1,915	51,830	96.1	0.7	N/A	0	0	N/A	
11/12/10	UWI12101112-00	1	2,470	54,300	94.4	0.8	117	0	0	N/A	
11/12/10	UWI12101112-01	2	2,213	56,513	94.0	0.6	66	0	0	N/A	2
11/12/10	UWM12101112-00	1	988	57,501	88.4	0.7	82	0	0	N/A	
11/15/10	UWM12101115-00	0	847	58,348	95.1	0.6	N/A	0	0	N/A	4
11/16/10	UWI12101116-00	0	2,213	60,561	91.5	0.7	N/A	0	0	N/A	
11/16/10	UWM12101116-00	1	847	61,408	95.4	0.6	127	0	0	N/A	
11/16/10	UWI12101116-01	1	1,235	62,643	90.5	0.4	82	0	0	N/A	
11/17/10	UWI12101117-00	1	1,980	64,623	96.0	0.6	56	0	0	N/A	
11/17/10	UWM12101117-00	1	1,270	65,893	96.0	0.9	99	0	0	N/A	
11/17/10	UWM12101117-01	1	1,142	67,035	95.7	0.7	89	1	0	90.9	
11/17/10	UWI12101117-01	1	1,641	68,676	93.3	0.5	123	0	0	N/A	
11/18/10	UWJ21101118-00	0	2,463	71,139	94.4	0.9	N/A	0	0	N/A	
11/18/10	UWM12101118-01	1	1,305	72,444	89.7	0.8	132	0	0	N/A	
11/18/10	UWM12101118-00	0	979	73,423	88.5	0.6	N/A	0	0	N/A	
11/19/10	UWI12101119-00	1	2,297	75,720	95.5	0.7	82	0	0	N/A	

A2. RRM
Lift Approval Summary

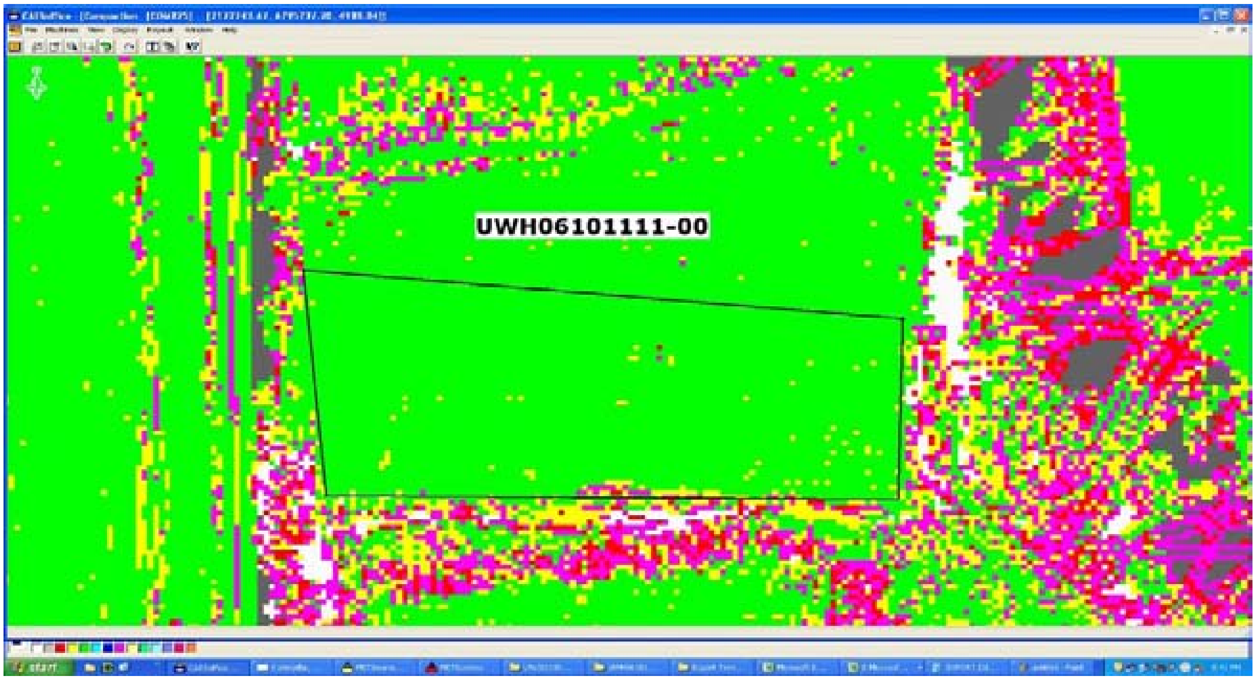
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
11/19/10	UWI24101119-00	1	1,382	77,102	89.8	0.7	140	0	0	N/A	
11/19/10	UWP30101119-00	0	595	77,697	96.7	0.8	N/A	0	0	N/A	
11/22/10	UWI12101122-00	0	2,626	80,323	91.3	0.8	N/A	0	0	N/A	
11/22/10	UWF05101122-00	0	256	80,579	94.8	0.3	N/A	0	0	N/A	
11/22/10	UWM12101122-00	1	1,142	81,721	95.1	0.7	140	0	0	N/A	
11/23/10	UWR06101123-00	0	1,976	83,697	95.4	0.8	N/A	0	0	N/A	
11/23/10	UWM12101123-00	1	1,305	85,002	89.2	0.8	107	0	0	N/A	
11/23/10	UWI12101122-01	2	2,669	87,671	89.0	0.8	77,132	0	0	N/A	1,2
11/23/10	UWJ21101123-00	1	1,915	89,586	90.4	0.7	165	0	0	N/A	
11/24/10	UWJ21101124-00	1	2,189	91,775	91.4	0.8	134	0	0	N/A	
11/24/10	UWK28101124-00	0	713	92,488	94.4	0.7	N/A	0	0	N/A	
11/24/10	UWM12101124-00	0	1,142	93,630	94.8	0.7	N/A	0	0	N/A	
11/24/10	UWI12101124-00	0	334	93,964	89.4	0.1	N/A	0	0	N/A	
11/29/10	UWI12101129-00	1	1,600	95,564	92.2	0.5	110	0	0	N/A	
11/29/10	UWM12101129-00	1	984	96,548	91.0	0.6	132	0	0	N/A	
11/30/10	UWI24101130-00	1	1,180	97,728	91.0	0.7	140	0	0	N/A	
11/30/10	UWM12101130-00	1	1,246	98,974	96.5	0.8	110	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 92.9
Total Quantity Approved (yd^3) = 98,974
Total # of Nuclear Density Gauge Tests = 1
Total # of Moisture Tests = 35
Quantity per Moisture Test (yd^3) = 2,828
Total Average Thickness (ft) = 0.7

1. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the date and the Lift ID #.
2. Lift was worked on for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
3. After approval, excessive moisture occurred on the lift due to rain. The lift was dragged, allowed to dry, and then an additional moisture test was taken to ensure satisfactory moisture content. This is why there are multiple moisture tests.
4. Moisture test for 11/15/10 can be found on UWI12101112-01.

A2. RRM
Lift Approval Summary

CAES compaction screen example from November 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

December 2010											
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 (%)	Notes
12/01/10	UWJ21101201-00	1	1,820	1,820	95.2	0.7	134	0	0	N/A	
12/01/10	UWI24101201-00	0	1,180	3,000	97.2	0.7	N/A	0	0	N/A	
12/01/10	UWI12101201-00	1	2,561	5,561	95.1	0.8	82	0	0	N/A	
12/02/10	UWI12101202-00	1	2,561	8,122	97.0	0.8	27	0	0	N/A	
12/02/10	UWJ21101202-00	0	1,300	9,422	91.0	0.5	N/A	0	0	N/A	
12/02/10	UWM12101202-00	1	1,091	10,513	94.5	0.7	82	0	0	N/A	
12/02/10	UWP30101202-00	0	499	11,012	95.3	0.7	N/A	0	0	N/A	
12/03/10	UWR06101203-00	1	1,729	12,741	89.8	0.7	176	0	0	N/A	
12/03/10	UWM12101203-01	0	1,091	13,832	91.0	0.7	N/A	0	0	N/A	
12/03/10	UWM12101203-00	1	1,091	14,923	92.7	0.7	140	0	0	N/A	
12/06/10	UWI12101206-00	1	2,713	17,636	95.7	0.8	165	0	0	N/A	
12/06/10	UWJ21101206-00	2	1,820	19,456	98.9	0.7	160	0	0	N/A	1
12/06/10	UWI24101206-00	1	1,349	20,805	94.3	0.8	140	0	0	N/A	
12/06/10	UWI12101207-00	1	2,383	23,188	94.4	0.7	176	0	0	N/A	
12/06/10	UWM12101207-00	0	1,091	24,279	93.1	0.7	N/A	0	0	N/A	
12/08/10	UWM12101208-00	0	1,123	25,402	95.9	0.7	N/A	0	0	N/A	
12/08/10	UWI12101208-00	1	2,561	27,963	92.1	0.8	176	0	0	N/A	
12/08/10	UWJ21101208-00	0	1,733	29,696	95.5	0.7	N/A	0	0	N/A	
12/09/10	UWI12101209-00	1	1,021	30,717	91.4	0.3	165	0	0	N/A	
12/09/10	UWM12101209-01	0	1,091	31,808	87.2	0.7	27	0	0	N/A	
12/09/10	UWM12101209-00	0	1,246	33,054	89.5	0.8	N/A	0	0	N/A	
12/10/10	UWI24101210-00	1	1,350	34,404	96.6	0.8	176	0	0	N/A	
12/10/10	UWJ21101210-00	1	1,981	36,385	96.5	0.8	56	0	0	N/A	
12/10/10	UWM12101210-00	1	1,287	37,672	87.6	0.8	176	0	0	N/A	
12/11/10	UWM12101211-00	0	1,318	38,990	86.8	0.8	N/A	0	0	N/A	
12/11/10	UWJ21101211-00	2	1,868	40,858	94.8	0.8	N/A	1	0	90.6	1
12/13/10	UWK28101213-00	0	1,085	41,943	94.4	0.8	N/A	0	0	N/A	
12/13/10	UWP30101213-00	0	428	42,371	90.9	0.6	N/A	0	0	N/A	
12/14/10	UWP30101214-00	0	428	42,799	92.7	0.6	N/A	0	0	N/A	
12/14/10	UWK28101214-00	1	950	43,749	94.6	0.7	99	0	0	N/A	
12/14/10	UWI24101214-00	0	1,125	44,874	96.6	0.7	N/A	0	0	N/A	
12/15/10	UWM12101215-00	0	1,318	46,192	97.6	0.8	N/A	0	0	N/A	
12/15/10	UWP30101215-00	0	214	46,406	99.1	0.3	N/A	0	0	N/A	
12/15/10	UWM12101215-01	1	824	47,230	98.9	0.5	81	0	0	N/A	
12/16/10	UWN19101216-00	0	1,918	49,148	93.7	0.7	N/A	0	0	N/A	
12/16/10	UWM12101216-02	0	989	50,137	96.0	0.6	N/A	0	0	N/A	
12/16/10	UWK28101216-00	1	1,085	51,222	97.5	0.8	82	0	0	N/A	
12/16/10	UWM12101216-01	1	857	52,079	93.4	0.5	60	1	1	91.0	
12/16/10	UWI24101216-00	1	1,125	53,204	99.7	0.7	82	0	0	N/A	
12/16/10	UWM12101216-00	0	1,028	54,232	95.1	0.6	N/A	0	0	N/A	
12/17/10	UWP30101217-01	3	428	54,660	93.1	0.6	180	0	0	N/A	2
12/17/10	UWM12101217-02	0	718	55,378	95.5	0.5	N/A	0	0	N/A	
12/17/10	UWI24101217-00	0	901	56,279	98.1	0.6	N/A	0	0	N/A	
12/17/10	UWK28101217-00	1	950	57,229	96.3	0.7	81	0	0	N/A	
12/17/10	UWM12101217-01	0	618	57,847	96.6	0.4	N/A	0	0	N/A	
12/17/10	UWM12101217-00	0	945	58,792	92.0	0.6	N/A	0	0	N/A	
12/17/10	UWP30101217-00	0	678	59,470	94.6	0.5	N/A	0	0	N/A	
12/18/10	UWI24101218-00	2	1,052	60,522	88.6	0.7	158	0	0	N/A	2
12/20/10	UWJ21101220-00	1	1,167	61,689	91.2	0.5	176	0	0	N/A	

A2. RRM
Lift Approval Summary

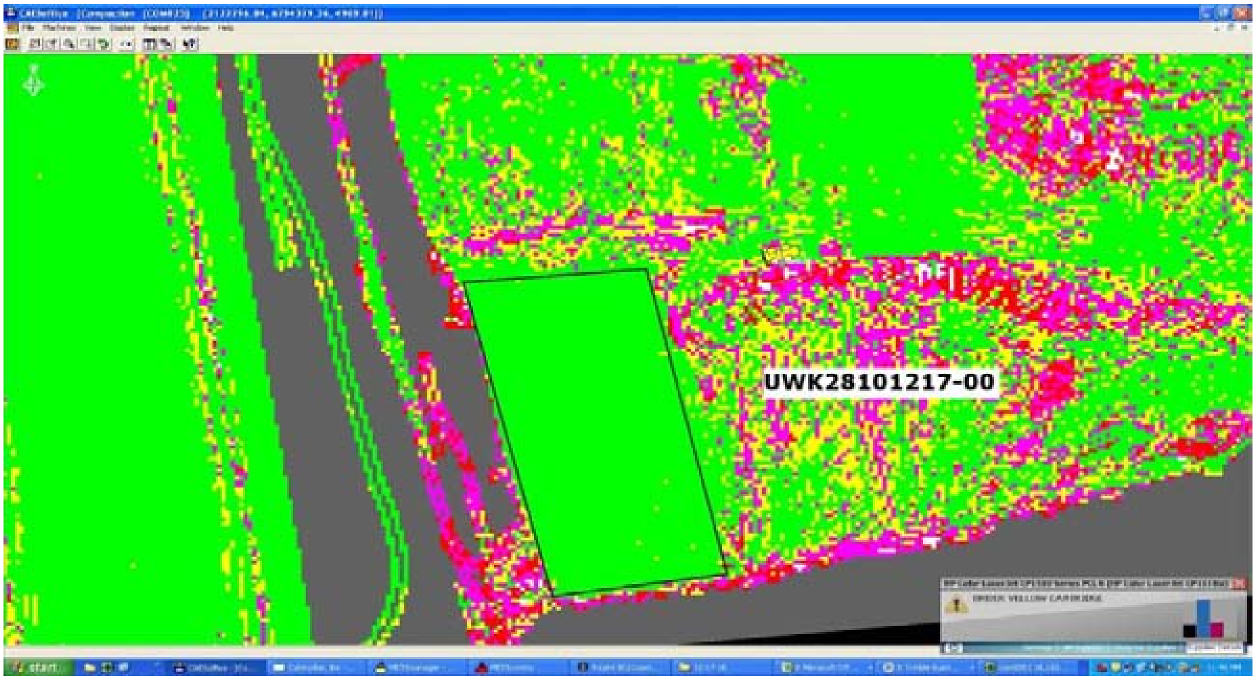
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
12/06/10	UWI12101207-00	1	2,383	23,188	94.4	0.7	176	0	0	N/A	
12/06/10	UWM12101207-00	0	1,091	24,279	93.1	0.7	N/A	0	0	N/A	
12/08/10	UWM12101208-00	0	1,123	25,402	95.9	0.7	N/A	0	0	N/A	
12/08/10	UWI12101208-00	1	2,561	27,963	92.1	0.8	176	0	0	N/A	
12/08/10	UWJ21101208-00	0	1,733	29,696	95.5	0.7	N/A	0	0	N/A	
12/09/10	UWI12101209-00	1	1,021	30,717	91.4	0.3	165	0	0	N/A	
12/09/10	UWM12101209-01	0	1,091	31,808	87.2	0.7	27	0	0	N/A	
12/09/10	UWM12101209-00	0	1,246	33,054	89.5	0.8	N/A	0	0	N/A	
12/10/10	UWI24101210-00	1	1,350	34,404	96.6	0.8	176	0	0	N/A	
12/10/10	UWJ21101210-00	1	1,981	36,385	96.5	0.8	56	0	0	N/A	
12/10/10	UWM12101210-00	1	1,287	37,672	87.6	0.8	176	0	0	N/A	
12/11/10	UWM12101211-00	0	1,318	38,990	86.8	0.8	N/A	0	0	N/A	
12/11/10	UWJ21101211-00	2	1,868	40,858	94.8	0.8	N/A	1	0	90.6	1
12/13/10	UWK28101213-00	0	1,085	41,943	94.4	0.8	N/A	0	0	N/A	
12/13/10	UWP30101213-00	0	428	42,371	90.9	0.6	N/A	0	0	N/A	
12/14/10	UWP30101214-00	0	428	42,799	92.7	0.6	N/A	0	0	N/A	
12/14/10	UWK28101214-00	1	950	43,749	94.6	0.7	99	0	0	N/A	
12/14/10	UWI24101214-00	0	1,125	44,874	96.6	0.7	N/A	0	0	N/A	
12/15/10	UWM12101215-00	0	1,318	46,192	97.6	0.8	N/A	0	0	N/A	
12/15/10	UWP30101215-00	0	214	46,406	99.1	0.3	N/A	0	0	N/A	
12/15/10	UWM12101215-01	1	824	47,230	98.9	0.5	81	0	0	N/A	
12/16/10	UWN19101216-00	0	1,918	49,148	93.7	0.7	N/A	0	0	N/A	
12/16/10	UWM12101216-02	0	989	50,137	96.0	0.6	N/A	0	0	N/A	
12/16/10	UWK28101216-00	1	1,085	51,222	97.5	0.8	82	0	0	N/A	
12/16/10	UWM12101216-01	1	857	52,079	93.4	0.5	60	1	1	91.0	
12/16/10	UWI24101216-00	1	1,125	53,204	99.7	0.7	82	0	0	N/A	
12/16/10	UWM12101216-00	0	1,028	54,232	95.1	0.6	N/A	0	0	N/A	
12/17/10	UWP30101217-01	3	428	54,660	93.1	0.6	180	0	0	N/A	2
12/17/10	UWM12101217-02	0	718	55,378	95.5	0.5	N/A	0	0	N/A	
12/17/10	UWI24101217-00	0	901	56,279	98.1	0.6	N/A	0	0	N/A	
12/17/10	UWK28101217-00	1	950	57,229	96.3	0.7	81	0	0	N/A	
12/17/10	UWM12101217-01	0	618	57,847	96.6	0.4	N/A	0	0	N/A	
12/17/10	UWM12101217-00	0	945	58,792	92.0	0.6	N/A	0	0	N/A	
12/17/10	UWP30101217-00	0	678	59,470	94.6	0.5	N/A	0	0	N/A	
12/18/10	UWI24101218-00	2	1,052	60,522	88.6	0.7	158	0	0	N/A	2
12/20/10	UWJ21101220-00	1	1,167	61,689	91.2	0.5	176	0	0	N/A	
12/21/10	UWR06101221-00	3	988	62,677	94.8	0.4	176	0	0	N/A	2,3

Average CAES Screen Passing Pixels (%) = 94.2
Total Quantity Approved (yd^3) = 62,677
Total # of Nuclear Density Gauge Tests = 2
Total # of Moisture Tests = 33
Quantity per Moisture Test (yd^3) = 1,899
Total Average Thickness (ft) = 0.7

1. Lift was worked on for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
2. Rainstorms and snowstorms caused a long delay in the approval of this lift Once snow was removed, the lift was reworked, recompacted, and retested. This is why there are multiple moisture tests on this lift.
3. A moisture test was taken on the underlying lift prior to placement and another during placement, to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.

A2. RRM
Lift Approval Summary

CAES compaction screen example from December 2010. There are compaction screens 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.



A2. RRM
Lift Approval Summary

January 2011											
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 (%)	Notes
01/04/11	UWJ21110104-00	3	1,363	1,363	95.7	0.7	73	0	0	N/A	1
01/05/11	UWJ211110105-00	1	1,363	2,726	95.6	0.6	N/A	0	0	N/A	
01/06/11	UWJ21110106-00	1	1,363	4,089	90.8	0.7	166	0	0	N/A	
01/06/11	UWJ211110106-01	1	1,363	5,452	96.4	0.5	N/A	0	0	N/A	
01/07/11	UWJ21110107-00	1	1,278	6,730	97.1	0.7	176	0	0	N/A	
01/07/11	UWJ211110107-01	1	1,278	8,008	94.4	0.6	N/A	0	0	N/A	
01/07/11	UWJ21110107-02	0	1,199	9,207	91.2	0.6	N/A	0	0	N/A	
01/08/11	UWJ21110108-00	1	999	10,206	92.5	0.5	73	0	0	N/A	
01/10/11	UWZ12110110-00	0	898	11,104	95.4	0.7	N/A	0	0	N/A	
01/10/11	UWZ07110110-00	1	915	12,019	99.5	0.7	180	0	0	N/A	
01/11/11	UWJ21110111-01	1	1,039	13,058	97.6	0.6	180	0	0	N/A	
01/11/11	UWJ21110111-00	1	1,199	14,257	92.5	0.6	181	0	0	N/A	
01/11/11	UWZ07110111-00	0	586	14,843	95.9	0.5	N/A	0	0	N/A	
01/11/11	UWZ12110111-00	0	911	15,754	94.7	0.7	N/A	0	0	N/A	
01/12/11	UWJ21110112-01	0	1,212	16,966	95.7	0.7	N/A	0	0	N/A	
01/12/11	UWJ21110112-00	1	999	17,965	94.5	0.5	180	0	0	N/A	
01/12/11	UWZ07110112-00	1	821	18,786	96.8	0.7	180	0	0	N/A	
01/13/11	UWJ21110113-00	1	1,385	20,171	94.1	0.8	176	0	0	N/A	
01/13/11	UWZ12110113-00	0	700	20,871	92.9	0.6	N/A	0	0	N/A	
01/13/11	UWI24110113-00	0	812	21,683	96.7	0.5	N/A	0	0	N/A	
01/13/11	UWJ21110113-01	1	677	22,360	96.8	0.4	181	0	0	N/A	
01/14/11	UWI24110114-00	1	975	23,335	97.4	0.6	166	0	0	N/A	
01/14/11	UWJ21110114-01	0	1,016	24,351	95.9	0.6	N/A	0	0	N/A	
01/14/11	UWJ21110114-00	0	1,354	25,705	96.8	0.8	N/A	0	0	N/A	
01/15/11	UWI24110115-00	1	975	26,680	95.2	0.6	176	0	0	N/A	
01/15/11	UWZ07110114-00	0	976	27,656	97.8	0.5	N/A	0	0	N/A	2
01/15/11	UWJ21110115-00	0	508	28,164	94.7	0.3	N/A	0	0	N/A	
01/17/11	UWI24110117-00	1	812	28,976	94.3	0.5	165	0	0	N/A	
01/18/11	UWI24110118-00	1	1,300	30,276	95.9	0.8	176	0	0	N/A	
01/18/11	UWJ21110118-00	0	677	30,953	90.3	0.4	N/A	0	0	N/A	
01/18/11	UWJ21110118-01	0	990	31,943	98.0	0.6	N/A	0	0	N/A	
01/18/11	UWI24110118-01	0	786	32,729	93.6	0.5	N/A	0	0	N/A	
01/18/11	UWZ07110118-00	1	1,006	33,735	96.4	0.5	180	0	0	N/A	
01/19/11	UWJ21110119-01	1	990	34,725	N/A	0.6	165	1	0	91.1	3
01/19/11	UWJ21110119-00	0	1,155	35,880	94.7	0.7	N/A	0	0	N/A	
01/19/11	UWZ07110119-00	1	1,006	36,886	N/A	0.5	180	1	0	94.2	3
01/19/11	UWI24110119-00	2	1,416	38,302	N/A	0.9	176	1	1	92.5	4
01/20/11	UWZ07110120-00	1	1,314	39,616	92.7	0.7	73	0	0	N/A	
01/20/11	UWJ21110120-01	1	1,151	40,767	97.3	0.7	123	0	0	N/A	
01/20/11	UWI24110120-00	1	1,033	41,800	94.7	0.6	152	0	0	N/A	
01/20/11	UWJ21110120-00	1	822	42,622	N/A	0.5	152	1	0	93.3	3
01/21/11	UWZ07110121-01	0	1,055	43,677	90.9	0.6	N/A	0	0	N/A	
01/21/11	UWZ07110121-00	1	879	44,556	90.9	0.5	123	1	0	90.9	
01/21/11	UWI24110121-00	0	1,377	45,933	92.0	0.8	N/A	0	0	N/A	
01/21/11	UWI24110121-01	0	1,208	47,141	93.7	0.7	N/A	0	0	N/A	
01/21/11	UWZ07110121-02	1	897	48,038	94.8	0.7	73	0	0	N/A	
01/21/11	UWJ21110121-00	0	987	49,025	97.2	0.6	N/A	0	0	N/A	
01/22/11	UWZ07110122-00	0	777	49,802	94.2	0.6	N/A	0	0	N/A	
01/22/11	UWZ07110122-01	1	1,036	50,838	85.2	0.8	166	0	0	N/A	

A2. RRM
Lift Approval Summary

Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd³)	Cumulative Quantity Approved (yd³)	CAES Screen Passing Pixels (%)	Average Thickness (ft.)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
01/24/11	UWZ07110124-00	0	777	51,615	81.0	0.6	N/A	0	0	N/A	
01/24/11	UWZ07110124-01	1	177	51,792	99.4	0.3	166	0	0	N/A	
01/25/11	UWK30110125-00	1	38	51,830	97.7	0.2	165	0	0	N/A	
01/25/11	UWI24110125-00	1	1,208	53,038	92.8	0.7	146	0	0	N/A	
01/25/11	UWI24110125-01	1	1,035	54,073	92.5	0.6	181	0	0	N/A	
01/25/11	UWI24110125-02	0	863	54,936	98.2	0.5	N/A	0	0	N/A	
01/25/11	UWK28110125-01	0	653	55,589	96.8	0.7	N/A	0	0	N/A	
01/25/11	UWK28110125-00	0	805	56,394	97.2	0.6	N/A	0	0	N/A	
01/26/11	UWP30110126-02	1	654	57,048	93.6	0.7	166	0	0	N/A	
01/26/11	UWK28110126-02	0	853	57,901	92.9	0.6	N/A	0	0	N/A	
01/26/11	UWP30110126-01	0	561	58,462	94.3	0.6	N/A	0	0	N/A	
01/26/11	UWK28110126-01	0	711	59,173	95.4	0.5	N/A	0	0	N/A	
01/26/11	UWK28110126-00	0	746	59,919	93.8	0.8	N/A	0	0	N/A	
01/26/11	UWI24110126-00	0	1,380	61,299	98.3	0.8	N/A	0	0	N/A	
01/26/11	UWP30110126-00	0	359	61,658	95.4	0.4	N/A	0	0	N/A	
01/26/11	UWJ21110126-00	0	658	62,316	97.0	0.4	N/A	0	0	N/A	
01/26/11	UWI24110126-01	2	942	63,258	97.1	0.6	103,166	0	0	N/A	1
01/27/11	UWP30110127-00	0	561	63,819	95.7	0.6	N/A	0	0	N/A	
01/27/11	UWK28110127-00	0	853	64,672	93.2	0.6	N/A	0	0	N/A	
01/27/11	UWK28110127-01	1	853	65,525	95.5	0.6	176	0	0	N/A	
01/27/11	UWP30110127-01	0	467	65,992	93.9	0.5	N/A	0	0	N/A	
01/27/11	UWK28110127-02	0	853	66,845	94.5	0.6	N/A	0	0	N/A	
01/27/11	UWP30110127-02	0	654	67,499	95.2	0.7	N/A	0	0	N/A	
01/27/11	UWK28110127-03	0	1,014	68,513	97.2	0.7	N/A	0	0	N/A	
01/27/11	UWN23110127-00	2	464	68,977	95.6	0.4	165	0	0	N/A	1
01/28/11	UWN23110128-01	0	1,703	70,680	93.4	0.6	N/A	0	0	N/A	
01/28/11	UWP30110128-00	0	621	71,301	94.5	0.6	N/A	0	0	N/A	
01/28/11	UWZ07110128-00	0	667	71,968	93.8	0.8	N/A	0	0	N/A	
01/28/11	UWZ06110128-00	0	567	72,535	86.8	0.8	N/A	0	0	N/A	
01/28/11	UWK28110128-00	1	1,014	73,549	95.9	0.7	166	0	0	N/A	
01/28/11	UWK28110128-01	0	850	74,399	95.0	0.6	N/A	0	0	N/A	
01/28/11	UWN23110128-00	0	1,706	76,105	98.1	0.6	N/A	0	0	N/A	
01/29/11	UWK28110129-01	0	1,133	77,238	95.1	0.8	N/A	0	0	N/A	
01/29/11	UWZ06110129-00	0	579	77,817	89.8	0.7	N/A	0	0	N/A	
01/29/11	UWK28110129-00	1	992	78,809	93.2	0.7	152	0	0	N/A	
01/29/11	UWN23110129-00	1	1,703	80,512	91.6	0.6	166	0	0	N/A	
01/29/11	UWZ07110129-00	0	583	81,095	96.1	0.7	N/A	0	0	N/A	
01/31/11	UWZ06110131-00	0	496	81,591	93.1	0.6	N/A	0	0	N/A	
01/31/11	UWN23110131-00	1	1,421	83,012	92.8	0.5	180	0	0	N/A	
01/31/11	UWH22110131-00	0	20	83,032	85.1	0.3	N/A	0	0	N/A	

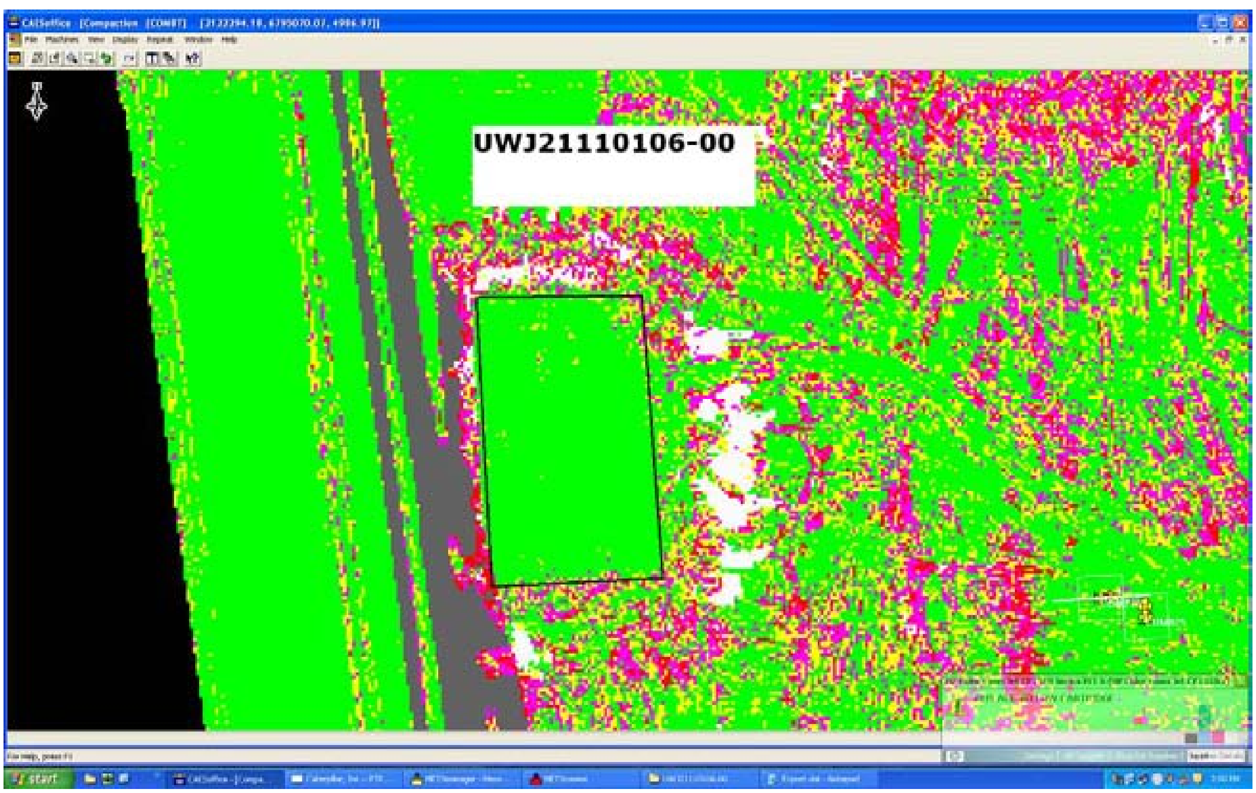
A2. RRM
Lift Approval Summary

ate	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 (%)	Notes
01/31/11	UWK28110131-00	0	1,087	84,119	96.4	0.8	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 94.5
Total Quantity Approved (yd^3) = 84,119
Total # of Nuclear Density Gauge Tests = 5
Total # of Moisture Tests = 46
Quantity per Moisture Test (yd^3) = 1,829
Total Average Thickness (ft.) = 0.6

1. Lift was worked for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
2. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the Lift ID #.
3. Lift was approved using a nuclear density gauge and the Trimble survey system, due to the fact that the CAES system was down.
4. Lift was approved using the sandcone method and the Trimble survey system, due to the fact that the CAES system was down. The sandcone method was also used to verify the nuclear density gauge test.

CAES compaction screen example from January 2011. There are compaction screens 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.



A2. RRM
Lift Approval Summary

February 2011											
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 (%)	Notes
02/01/11	UWK28110201-00	1	815	815	97.1	0.6	165	0	0	N/A	
02/01/11	UWN23110201-00	0	1,263	2,078	97.5	0.5	N/A	0	0	N/A	
02/01/11	UWN23110201-01	1	1,011	3,089	97.6	0.4	180	0	0	N/A	
02/01/11	UWI24110201-01	0	829	3,918	96.9	0.5	N/A	0	0	N/A	
02/01/11	UWK28110201-01	0	543	4,461	98.1	0.4	N/A	0	0	N/A	
02/01/11	UWN23110201-00	0	1,535	5,996	92.0	0.6	N/A	0	0	N/A	
02/01/11	UWI24110201-00	0	664	6,660	95.0	0.4	N/A	0	0	N/A	
02/02/11	UWN23110202-01	0	1,303	7,963	98.3	0.5	N/A	0	0	N/A	
02/02/11	UWK28110202-01	1	681	8,644	96.2	0.5	166	0	0	N/A	
02/02/11	UWK28110202-00	0	815	9,459	94.2	0.6	N/A	0	0	N/A	
02/02/11	UWN23110202-00	1	1,504	10,963	96.1	0.6	180	0	0	N/A	
02/03/11	UWN23110203-01	1	1,303	12,266	97.6	0.5	166	0	0	N/A	
02/03/11	UWK28110203-00	0	817	13,083	96.8	0.6	N/A	0	0	N/A	
02/03/11	UWN23110203-00	2	1,303	14,386	98.3	0.5	166	0	0	N/A	1
02/03/11	UWK28110203-01	0	544	14,930	97.4	0.4	N/A	0	0	N/A	
02/04/11	UWK28110204-00	0	817	15,747	96.3	0.6	N/A	0	0	N/A	
02/04/11	UWI24110204-01	1	795	16,542	96.5	0.5	166	0	0	N/A	
02/04/11	UWN23110204-00	0	1,303	17,845	96.7	0.5	N/A	0	0	N/A	
02/04/11	UWI24110204-00	0	995	18,840	98.1	0.6	N/A	0	0	N/A	
02/04/11	UWN19110204-00	1	-472	18,368	91.1	0.0	146	0	0	N/A	2
02/05/11	UWI24110205-00	1	1,272	19,640	94.5	0.8	191	0	0	N/A	
02/07/11	UWI24110207-00	1	931	20,571	95.9	0.6	176	0	0	N/A	
02/07/11	UWK28110207-00	1	817	21,388	95.8	0.6	191	0	0	N/A	
02/08/11	UWN19110208-00	0	827	22,215	95.2	0.7	N/A	0	0	N/A	
02/08/11	UWN23110208-00	1	1,735	23,950	96.7	0.7	154	0	0	N/A	
02/08/11	UWN19110208-01	0	709	24,659	93.2	0.6	N/A	0	0	N/A	
02/08/11	UWK28110208-00	0	955	25,614	95.0	0.7	N/A	0	0	N/A	
02/08/11	UWI24110208-00	0	1,086	26,700	96.0	0.7	N/A	0	0	N/A	
02/09/11	UWK28110209-02	0	854	27,554	93.1	0.6	N/A	0	0	N/A	
02/09/11	UWN23110209-00	1	1,487	29,041	97.4	0.6	166	0	0	N/A	
02/09/11	UWK28110209-00	0	83	29,124	87.5	0.2	N/A	0	0	N/A	
02/09/11	UWN19110209-00	0	827	29,951	95.5	0.7	N/A	0	0	N/A	
02/09/11	UWK28110209-01	0	291	30,242	90.8	0.7	N/A	0	0	N/A	
02/09/11	UWN19110209-01	1	827	31,069	97.0	0.7	171	1	0	92.3	
02/09/11	UWN23110209-01	0	1,279	32,348	95.8	0.5	N/A	0	0	N/A	
02/09/11	UWN23110209-02	0	1,279	33,627	95.4	0.5	N/A	0	0	N/A	
02/10/11	UWK28110210-00	1	1,139	34,766	94.6	0.8	166	0	0	N/A	
02/10/11	UWN19110210-00	0	1,006	35,772	96.1	0.6	N/A	0	0	N/A	
02/10/11	UWN23110210-01	1	1,535	37,307	88.0	0.6	166	0	0	N/A	
02/10/11	UWK28110210-01	0	997	38,304	92.2	0.7	N/A	0	0	N/A	
02/11/11	UWN19110211-00	0	1,006	39,310	94.5	0.6	N/A	0	0	N/A	
02/11/11	UWK28110211-00	0	712	40,022	90.9	0.5	N/A	0	0	N/A	
02/11/11	UWK28110211-01	0	854	40,876	91.3	0.6	N/A	0	0	N/A	
02/11/11	UWN23110211-00	1	1,273	42,149	89.7	0.5	181	0	0	N/A	
02/11/11	UWN19110211-01	1	1,174	43,323	93.0	0.7	107	0	0	N/A	
02/11/11	UWN23110211-01	0	1,527	44,850	86.5	0.6	N/A	0	0	N/A	
02/11/11	UWI24110211-00	0	1,086	45,936	94.6	0.7	N/A	0	0	N/A	
02/12/11	UWH27110212-01	0	25	45,961	88.8	0.5	N/A	0	0	N/A	
02/12/11	UWH27110212-00	0	20	45,981	87.1	0.4	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
02/12/11	UWH27110212-02	0	25	46,006	90.4	0.5	N/A	0	0	N/A	
02/12/11	UWH27110212-03	0	45	46,051	80.0	0.9	N/A	0	0	N/A	
02/12/11	UWN19110212-00	1	939	46,990	92.2	0.6	180	0	0	N/A	
02/12/11	UWI24110212-00	0	620	47,610	93.5	0.4	N/A	0	0	N/A	
02/12/11	UWK28110212-00	0	997	48,607	93.3	0.7	N/A	0	0	N/A	
02/14/11	UWR06110214-00	1	1,131	49,738	88.6	0.4	185	0	0	N/A	4
02/14/11	UWZ06110214-00	1	864	50,602	96.9	0.9	185	0	0	N/A	
02/14/11	UWN23110212-00	1	1,273	51,875	87.0	0.5	189	0	0	N/A	3
02/14/11	UWZ06110214-01	1	672	52,547	95.7	0.7	185	0	0	N/A	
02/14/11	UWN19110214-00	0	1,174	53,721	95.2	0.7	N/A	0	0	N/A	
02/14/11	UWK28110214-00	0	712	54,433	93.3	0.5	N/A	0	0	N/A	
02/15/11	UWK28110215-00	0	794	55,227	95.3	0.6	N/A	0	0	N/A	
02/15/11	UWK28110215-01	1	794	56,021	97.5	0.6	166	0	0	N/A	
02/15/11	UWN23110215-00	1	1,569	57,590	97.5	0.8	166	0	0	N/A	
02/15/11	UWN23110215-01	0	784	58,374	97.1	0.4	N/A	0	0	N/A	
02/15/11	UWN19110215-00	0	1,170	59,544	92.9	0.5	N/A	0	0	N/A	
02/16/11	UWN23110216-00	1	1,176	60,720	94.7	0.6	180	0	0	N/A	
02/16/11	UWK28110216-00	0	1,059	61,779	93.9	0.8	N/A	0	0	N/A	
02/16/11	UWK28110216-01	0	662	62,441	96.0	0.5	N/A	0	0	N/A	
02/16/11	UWN19110216-00	0	1,170	63,611	97.0	0.5	N/A	0	0	N/A	
02/17/11	UWN23110217-00	1	1,535	65,146	93.4	0.7	176	0	0	N/A	
02/17/11	UWN23110216-01	1	1,569	66,715	94.9	0.8	189	0	0	N/A	3
02/17/11	UWN19110217-00	0	2,106	68,821	93.3	0.9	N/A	0	0	N/A	
02/17/11	UWK28110217-01	0	604	69,425	91.2	0.4	N/A	0	0	N/A	
02/17/11	UWK28110217-00	1	1,358	70,783	94.6	0.9	181	0	0	N/A	
02/18/11	UWN23110218-00	1	1,096	71,879	94.7	0.5	191	0	0	N/A	
02/18/11	UWK28110218-00	0	369	72,248	98.6	0.6	N/A	0	0	N/A	
02/18/11	UWN19110218-01	1	1,962	74,210	96.0	0.7	185	0	0	N/A	
02/18/11	UWK28110218-01	0	369	74,579	97.9	0.6	N/A	0	0	N/A	
02/18/11	UWN19110218-00	0	1,681	76,260	96.2	0.6	N/A	0	0	N/A	
02/19/11	UWN23110219-00	0	875	77,135	94.4	0.4	N/A	0	0	N/A	
02/19/11	UWK28110219-00	0	430	77,565	94.6	0.7	N/A	0	0	N/A	
02/19/11	UWN19110219-00	1	1,681	79,246	93.3	0.6	197	0	0	N/A	
02/19/11	UWK28110219-01	0	369	79,615	93.6	0.6	N/A	0	0	N/A	
02/22/11	UWR06110222-00	1	1,414	81,029	94.1	0.5	166	0	0	N/A	4
02/22/11	UWN19110222-00	1	1,121	82,150	98.3	0.4	185	0	0	N/A	
02/22/11	UWN23110222-00	0	1,316	83,466	97.7	0.6	N/A	0	0	N/A	
02/23/11	UWR06110223-00	0	2,262	85,728	94.2	0.8	N/A	0	0	N/A	4
02/23/11	UWN19110223-01	1	1,498	87,226	96.7	0.5	166	0	0	N/A	
02/23/11	UWN19110223-00	1	2,397	89,623	98.3	0.8	166	0	0	N/A	
02/23/11	UWN23110223-00	0	1,259	90,882	96.5	0.6	N/A	0	0	N/A	
02/24/11	UWN19110224-00	0	1,798	92,680	97.7	0.6	N/A	0	0	N/A	
02/24/11	UWN23110224-00	1	629	93,309	97.9	0.3	191	0	0	N/A	
02/24/11	UWK28110224-02	0	411	93,720	97.0	0.7	N/A	0	0	N/A	
02/24/11	UWK28110224-00	0	604	94,324	89.2	0.4	N/A	0	0	N/A	
02/24/11	UWM12110224-00	0	-718	93,606	95.9	0.0	N/A	0	0	N/A	2
02/24/11	UWK28110224-01	0	352	93,958	90.2	0.6	N/A	0	0	N/A	
02/24/11	UWM12110224-01	1	842	94,800	97.2	0.8	165	0	0	N/A	
02/25/11	UWN19110225-02	0	2,397	97,197	93.9	0.8	N/A	0	0	N/A	
02/25/11	UWN19110225-01	0	1,498	98,695	94.5	0.5	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

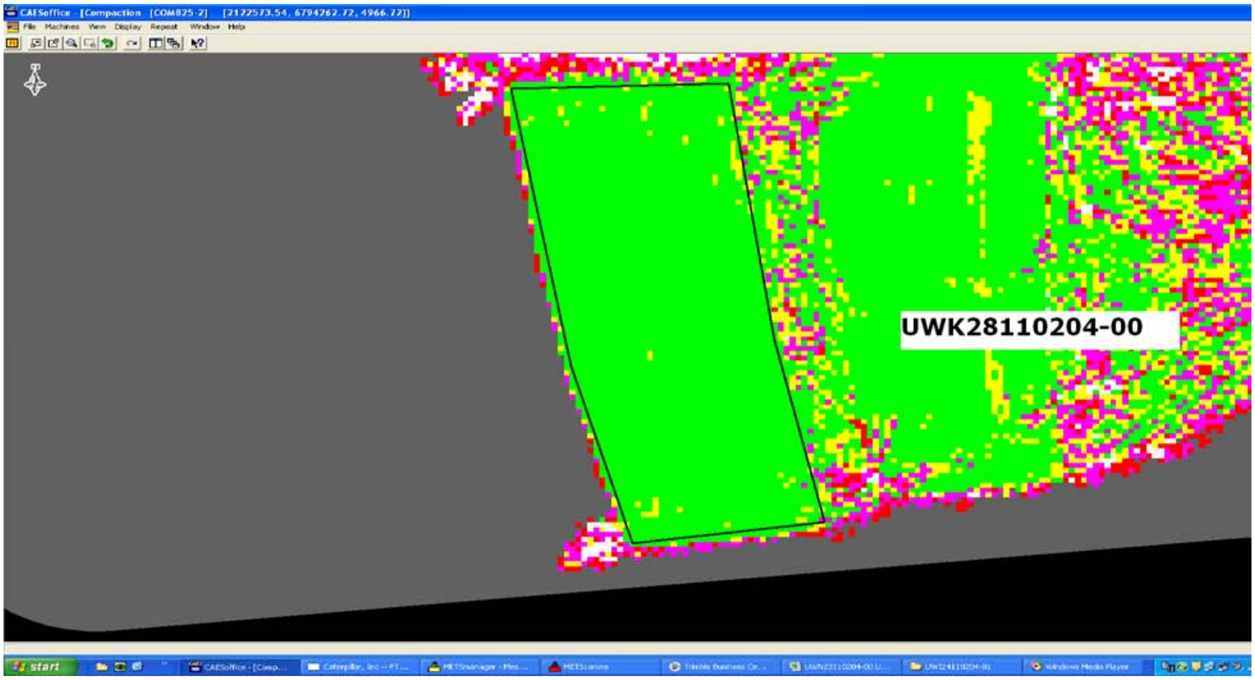
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft.)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
02/25/11	UWN23110225-00	1	1,049	99,744	96.1	0.5	166	0	0	N/A	
02/25/11	UWM12110225-00	0	860	100,604	93.4	0.5	N/A	0	0	N/A	
02/25/11	UWN19110225-00	0	1,498	102,102	95.9	0.5	N/A	0	0	N/A	
02/25/11	UWK28110225-00	0	117	102,219	95.1	0.2	N/A	0	0	N/A	
02/28/11	UWM12110228-00	0	1,204	103,423	93.8	0.7	N/A	0	0	N/A	
02/28/11	UWM12110228-01	0	250	103,673	95.5	0.4	N/A	0	0	N/A	
02/28/11	UWN23110228-01	1	1,550	105,223	91.0	0.7	185	0	0	N/A	
02/28/11	UWN19110228-00	1	1,692	106,915	97.9	0.5	185	0	0	N/A	
02/28/11	UWN23110228-00	1	1,049	107,964	96.1	0.5	166	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 94.5
Total Quantity Approved (yd^3) = 107,964
Total # of Nuclear Density Gauge Tests = 1
Total # of Moisture Tests = 43
Quantity per Moisture Test (yd^3) = 2,511
Total Average Thickness (ft.) = 0.6

1. Lift was worked for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
2. Lift has negative quantity approved due to the fact that snow and frozen material was removed and the lift was reworked and recompacted.
3. Lift was placed on an earlier date, but not approved until later. This is the reason for the difference in the Lift ID #.
4. Lift contains debris. Debris was placed in accordance with the NRC variance letter. This letter is attached to the lift approval.

A2. RRM
Lift Approval Summary

CAES compaction screen example from February 2011. There are compaction screens 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.



A2. RRM
Lift Approval Summary

March 2011											
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 (%)	Notes
03/01/11	UWN19110301-01	0	1,354	1,354	96.6	0.4	N/A	0	0	N/A	
03/01/11	UWR06110301-00	0	627	1,981	95.8	0.2	N/A	0	0	N/A	5
03/01/11	UWN19110301-00	1	1,692	3,673	81.0	0.5	165	0	0	N/A	
03/01/11	UWR06110301-01	1	1,568	5,241	94.4	0.5	166	0	0	N/A	5
03/02/11	UWN19110302-00	1	2,369	7,610	94.1	0.7	166	0	0	N/A	
03/02/11	UWN19110302-01	0	1,354	8,964	96.8	0.4	N/A	0	0	N/A	
03/02/11	UWR06110302-00	1	1,568	10,532	96.8	0.5	185	0	0	N/A	5
03/02/11	UWM12110302-00	0	313	10,845	98.7	0.5	N/A	0	0	N/A	
03/03/11	UWN19110303-01	0	2,225	13,070	96.8	0.5	N/A	0	0	N/A	
03/03/11	UWN23110303-00	0	1,292	14,362	98.6	0.6	N/A	0	0	N/A	
03/03/11	UWN19110303-00	1	1,994	16,356	99.2	0.6	185	0	0	N/A	
03/03/11	UWR06110302-01	0	2,822	19,178	91.6	0.9	N/A	0	0	N/A	5
03/04/11	UWN23110304-01	1	921	20,099	97.6	0.6	185	0	0	N/A	
03/04/11	UWR06110304-00	0	2,189	22,288	95.3	0.7	N/A	0	0	N/A	5
03/04/11	UWN23110304-00	1	1,724	24,012	95.8	0.8	185	0	0	N/A	
03/05/11	UWN19110305-00	0	2,670	26,682	97.9	0.6	N/A	0	0	N/A	
03/07/11	UWS21110307-00	0	752	27,434	96.8	0.4	N/A	0	0	N/A	
03/07/11	UWN23110307-00	3	614	28,048	98.4	0.4	185,193	0	0	N/A	1
03/07/11	UWN19110307-00	1	2,225	30,273	96.4	0.5	185	0	0	N/A	
03/08/11	UWS21110308-00	1	1,129	31,402	98.6	0.6	185	0	0	N/A	
03/08/11	UWN19110308-00	0	1,780	33,182	96.7	0.4	N/A	0	0	N/A	
03/08/11	UWN23110308-00	1	307	33,489	98.3	0.2	197	0	0	N/A	
03/09/11	UWR06110309-00	0	2,189	35,678	94.9	0.7	N/A	0	0	N/A	5
03/09/11	UWN23110309-01	1	988	36,666	96.1	0.7	185	0	0	N/A	
03/09/11	UWN19110309-01	0	2,067	38,733	98.7	0.5	N/A	0	0	N/A	
03/09/11	UWN23110309-00	0	1,074	39,807	98.6	0.7	N/A	0	0	N/A	
03/09/11	UWN19110309-00	1	2,058	41,865	99.0	0.5	197	0	0	N/A	
03/10/11	UWS21110310-00	0	1,129	42,994	98.0	0.6	N/A	0	0	N/A	
03/10/11	UWN19110310-01	0	1,647	44,641	94.4	0.4	N/A	0	0	N/A	
03/10/11	UWN19110310-00	1	2,067	46,708	96.6	0.5	197	0	0	N/A	
03/10/11	UWN23110310-01	0	984	47,692	97.8	0.6	N/A	0	0	N/A	
03/10/11	UWN23110310-00	1	820	48,512	87.8	0.5	191	0	0	N/A	
03/11/11	UWN23110311-01	0	394	48,906	97.8	0.6	N/A	0	0	N/A	
03/11/11	UWN23110311-00	0	984	49,890	99.0	0.6	N/A	0	0	N/A	
03/11/11	UWN19110311-00	1	2,158	52,048	98.5	0.5	197	0	0	N/A	
03/11/11	UWN19110311-01	0	2,158	54,206	98.1	0.5	N/A	0	0	N/A	
03/14/11	UWN23110314-00	0	328	54,534	97.2	0.5	N/A	0	0	N/A	
03/14/11	UWN19110314-00	2	2,470	57,004	96.4	0.6	185,197	0	0	N/A	2
03/14/11	UWN23110314-01	0	597	57,601	97.4	0.4	N/A	0	0	N/A	
03/15/11	UWS21110315-00	0	752	58,353	97.8	0.4	N/A	0	0	N/A	
03/15/11	UWS21110315-01	0	941	59,294	97.7	0.5	N/A	0	0	N/A	
03/15/11	UWY02110315-00	0	491	59,785	95.3	0.7	N/A	0	0	N/A	
03/15/11	UWN19110315-00	1	3,021	62,806	97.9	0.7	185	0	0	N/A	
03/15/11	UWR06110315-00	0	2,493	65,299	96.8	0.8	N/A	0	0	N/A	5
03/16/11	UWS21110316-00	0	1,478	66,777	98.7	0.6	N/A	0	0	N/A	
03/16/11	UWY02110316-00	0	421	67,198	82.7	0.6	N/A	0	0	N/A	
03/16/11	UWN19110316-00	1	2,158	69,356	97.5	0.5	197	0	0	N/A	
03/17/11	UWR06110317-00	0	1,631	70,987	94.8	0.5	N/A	0	0	N/A	
03/17/11	UWN19110317-00	1	2,590	73,577	96.0	0.6	185	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
03/17/11	UWY02110317-00	0	491	74,068	82.8	0.7	N/A	0	0	N/A	
03/17/11	UWN19110317-01	1	2,502	76,570	95.9	0.5	191	0	0	N/A	
03/18/11	UWN19110318-00	1	1,553	78,123	98.5	0.4	185	0	0	N/A	
03/18/11	UWS21110318-00	0	1,321	79,444	95.2	0.5	N/A	0	0	N/A	
03/18/11	UWZ06110318-00	0	576	80,020	91.5	0.6	N/A	0	0	N/A	
03/18/11	UWY02110318-00	0	350	80,370	81.4	0.5	N/A	0	0	N/A	
03/18/11	UWN19110318-01	1	2,752	83,122	94.4	0.7	160	0	0	N/A	
03/18/11	UWS21110318-01	1	1,391	84,513	94.4	0.5	146	0	0	N/A	
03/21/11	UWN19110321-00	0	2,363	86,876	97.6	0.6	N/A	0	0	N/A	3
03/21/11	UWS21110321-01	0	1,670	88,546	94.2	0.6	N/A	0	0	N/A	3
03/22/11	UWN19110322-01	1	1,423	89,969	97.6	0.5	181	0	0	N/A	
03/22/11	UWS21110322-00	1	1,669	91,638	91.7	0.6	189	0	0	N/A	
03/22/11	UWS31110322-00	0	1,025	92,663	88.3	0.9	N/A	0	0	N/A	
03/22/11	UWN19110322-00	1	1,553	94,216	96.7	0.4	160	0	0	N/A	
03/22/11	UWS21110322-01	0	835	95,051	92.4	0.3	N/A	0	0	N/A	
03/23/11	UWS21110323-00	1	1,857	96,908	97.7	0.6	193	0	0	N/A	
03/23/11	UWN19110323-00	0	1,139	98,047	94.8	0.4	N/A	0	0	N/A	
03/23/11	UWS31110323-00	0	456	98,503	96.1	0.4	N/A	0	0	N/A	
03/23/11	UWN19110323-01	0	1,139	99,642	94.8	0.4	N/A	0	0	N/A	
03/23/11	UWN19110323-02	0	1,708	101,350	98.6	0.6	N/A	0	0	N/A	
03/23/11	UWS21110323-01	1	2,166	103,516	97.4	0.7	181	0	0	N/A	
03/24/11	UWS21110324-01	1	2,166	105,682	95.7	0.7	193	0	0	N/A	
03/24/11	UWS31110324-00	0	797	106,479	96.6	0.7	N/A	0	0	N/A	
03/24/11	UWS31110324-01	0	911	107,390	96.9	0.8	N/A	0	0	N/A	
03/24/11	UWS21110324-00	1	1,857	109,247	95.4	0.6	185	0	0	N/A	
03/24/11	UWR06110324-00	0	2,421	111,668	95.4	0.7	N/A	0	0	N/A	
03/25/11	UWS21110325-00	1	2,475	114,143	96.0	0.8	185	0	0	N/A	
03/25/11	UWS31110325-00	0	683	114,826	96.6	0.6	N/A	0	0	N/A	
03/25/11	UWS21110325-01	2	2,413	117,239	95.3	0.7	117	0	0	N/A	2
03/28/11	UWS31110328-00	1	570	117,809	95.3	0.5	191	0	0	N/A	
03/28/11	UWY02110328-00	0	421	118,230	89.6	0.6	N/A	0	0	N/A	
03/28/11	UWS21110328-01	3	2,757	120,987	N/A	0.8	152,191	1	0	98.7	4
03/28/11	UWS31110328-01	0	911	121,898	95.3	0.8	N/A	0	0	N/A	
03/28/11	UWS21110328-00	0	1,547	123,445	96.1	0.5	N/A	0	0	N/A	
03/28/11	UWN19110325-00	1	1,992	125,437	95.6	0.7	117	0	0	N/A	
03/29/11	UWS31110329-00	1	1,095	126,532	N/A	0.6	170	1	0	91.8	4
03/29/11	UWS21110329-00	1	2,413	128,945	N/A	0.7	191	1	0	98.7	
03/30/11	UWS31110330-00	1	730	129,675	90.3	0.4	191	0	0	N/A	
03/30/11	UWN19110330-00	0	1,139	130,814	95.7	0.4	N/A	0	0	N/A	
03/30/11	UWS21110330-00	0	1,817	132,631	96.5	0.5	N/A	0	0	N/A	
03/30/11	UWW27110330-00	0	865	133,496	99.1	0.7	N/A	0	0	N/A	
03/31/11	UWW27110331-01	0	988	134,484	94.2	0.8	N/A	0	0	N/A	
03/31/11	UWV21110331-01	0	799	135,283	90.5	0.6	N/A	0	0	N/A	
03/31/11	UWS31110331-00	0	912	136,195	94.8	0.5	N/A	0	0	N/A	
03/31/11	UWV21110331-00	0	799	136,994	92.4	0.6	N/A	0	0	N/A	
03/31/11	UWW27110331-00	1	741	137,735	95.6	0.6	82	0	0	N/A	
03/31/11	UWS21110331-00	1	2,232	139,967	N/A	0.6	152	1	0	92.5	4

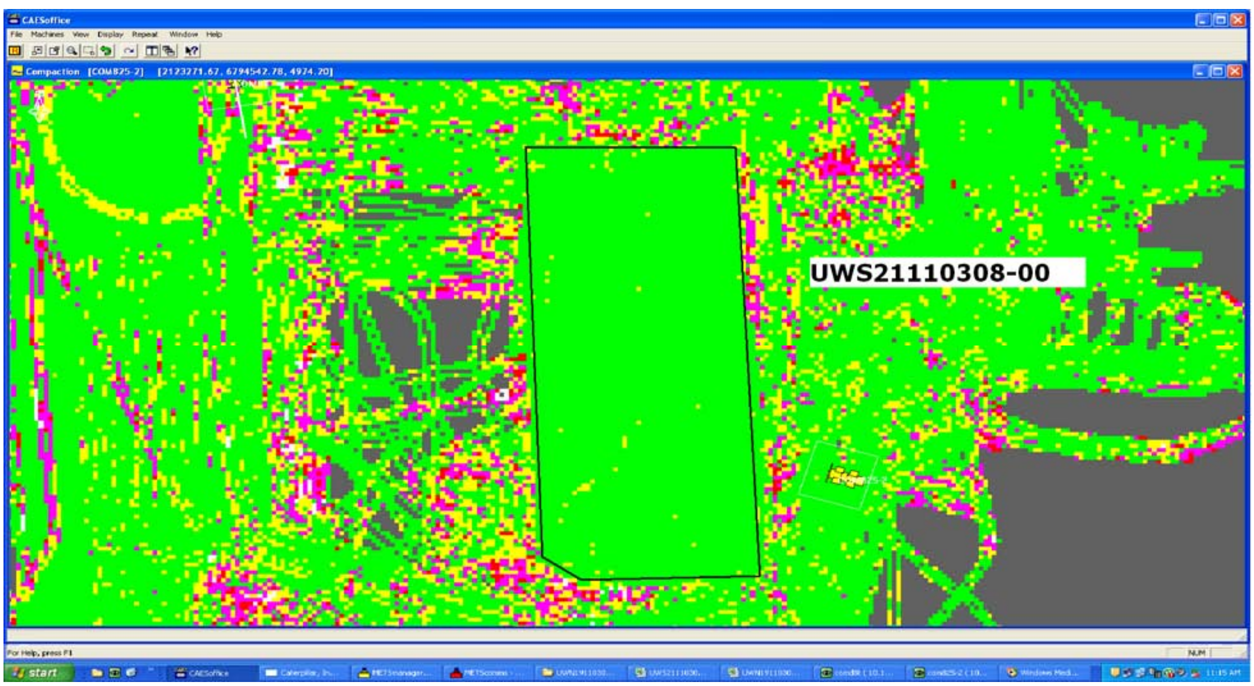
A2. RRM
Lift Approval Summary

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 (%)	Notes
03/31/11	UWS31110331-01	1	1,095	141,062	94.9	0.6	117	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 95.4
Total Quantity Approved (yd^3) = 141,062
Total # of Nuclear Density Gauge Tests = 4
Total # of Moisture Tests = 48
Quantity per Moisture Test (yd^3) = 2,939
Total Average Thickness (ft.) = 0.6

1. Rain was falling on this lift during placement. Multiple moistures were taken in order to ensure moisture content remained satisfactory.
2. Lift was worked for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
3. The daily moisture test for 03/21/11 was done on UWS21110318-01 by the day shift. This lift can be found on 03/18/11.
4. Lift was approved using a nuclear density gauge and the Trimble survey system, due to the fact that the CAES system was down.
5. Lift contains debris. Debris was placed in accordance with the NRC variance letter. This letter is attached to the lift approval.

CAES compaction screen example from March 2011. There are compaction screens 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.



A2. RRM
Lift Approval Summary

April 2011											
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 (%)	Notes
04/01/11	UWW27110401-00	1	988	988	91.3	0.8	205	0	0	N/A	
04/01/11	UWV21110401-00	1	989	1,977	N/A	0.8	193	1	0	92.0	1
04/01/11	UWS31110401-00	0	1,277	3,254	91.5	0.7	N/A	0	0	N/A	
04/01/11	UWN19110401-00	1	854	4,108	94.8	0.3	103	0	0	N/A	
04/04/11	UWS31110404-00	1	1,095	5,203	N/A	0.6	166	1	0	90.6	1
04/04/11	UWY19110404-00	1	414	5,617	N/A	0.7	170	1	0	96.1	1
04/04/11	UWN19110404-00	1	854	6,471	N/A	0.3	152	1	0	97.4	1
04/04/11	UWY20110404-00	1	297	6,768	N/A	0.6	170	1	0	90.7	1
04/05/11	UWY19110405-00	2	355	7,123	N/A	0.6	103	1	0	96.3	1,2
04/05/11	UWS31110405-00	1	1,095	8,218	N/A	0.6	152	1	0	92.2	1
04/05/11	UWW27110405-00	1	564	8,782	N/A	0.4	205	1	0	92.4	1
04/05/11	UWW27110404-00	1	932	9,714	N/A	0.7	73	1	1	99.3	3,4
04/05/11	UWV21110405-00	1	741	10,455	N/A	0.6	103	1	0	90.9	1
04/05/11	UWY20110405-00	1	297	10,752	N/A	0.6	103	1	0	93.0	1
04/05/11	UWS21110405-00	1	2,604	13,356	94.9	0.7	205	0	0	N/A	
04/06/11	UWS31110406-01	0	1,459	14,815	91.9	0.8	N/A	0	0	N/A	
04/06/11	UWV21110406-01	0	865	15,680	99.0	0.7	166	0	0	N/A	
04/06/11	UWS31110406-00	1	1,095	16,775	90.5	0.6	193	0	0	N/A	
04/06/11	UWV21110406-00	0	618	17,393	99.4	0.5	N/A	0	0	N/A	
04/06/11	UWY19110406-00	0	296	17,689	90.5	0.5	N/A	0	0	N/A	
04/06/11	UWY20110406-00	0	198	17,887	84.1	0.4	N/A	0	0	N/A	
04/07/11	UWR12110407-00	0	214	18,101	90.9	0.1	N/A	0	0	N/A	
04/07/11	UWV21110407-00	1	741	18,842	99.5	0.6	185	0	0	N/A	
04/07/11	UWS31110407-00	0	1,277	20,119	93.8	0.7	N/A	0	0	N/A	
04/07/11	UWR06110407-00	0	2,236	22,355	97.7	0.7	N/A	0	0	N/A	
04/07/11	UWR12110407-01	1	468	22,823	91.5	0.5	205	0	0	N/A	
04/07/11	UWW27110407-01	0	962	23,785	97.8	0.6	N/A	0	0	N/A	
04/07/11	UWW27110407-00	0	799	24,584	99.0	0.6	N/A	0	0	N/A	
04/08/11	UWS31110408-00	0	1,304	25,888	94.7	0.6	N/A	0	0	N/A	
04/08/11	UWW27110408-00	1	1,121	27,009	97.9	0.7	166	0	0	N/A	
04/08/11	UWV21110408-01	0	911	27,920	96.4	0.5	N/A	0	0	N/A	
04/08/11	UWV21110408-00	1	1,093	29,013	94.9	0.6	73	0	0	N/A	
04/11/11	UWW27110411-00	0	641	29,654	98.6	0.4	N/A	0	0	N/A	
04/11/11	UWV21110411-00	0	911	30,565	97.5	0.5	N/A	0	0	N/A	
04/11/11	UWR12110411-00	2	1,875	32,440	99.2	0.5	89	0	0	N/A	5
04/11/11	UWY19110411-00	1	720	33,160	94.3	0.8	89	0	0	N/A	
04/11/11	UWS31110411-00	0	1,087	34,247	90.1	0.5	N/A	0	0	N/A	
04/12/11	UWQ21110412-00	0	1,286	35,533	94.3	0.6	N/A	0	0	N/A	
04/12/11	UWR06110412-00	0	2,349	37,882	97.8	0.8	N/A	0	0	N/A	
04/12/11	UWW27110412-00	0	1,062	38,944	97.0	0.6	N/A	0	0	N/A	
04/12/11	UWS31110412-00	1	1,458	40,402	93.8	0.6	89	0	0	N/A	
04/12/11	UWV21110412-00	0	1,017	41,419	96.2	0.5	N/A	0	0	N/A	
04/13/11	UWR12110413-00	1	2,625	44,044	96.4	0.7	73	0	0	N/A	4
04/13/11	UWQ21110413-00	1	1,286	45,330	97.0	0.6	73	0	0	N/A	
04/13/11	UWW27110413-00	0	1,062	46,392	96.1	0.6	N/A	0	0	N/A	
04/14/11	UWW27110414-00	1	1,062	47,454	94.5	0.6	160	0	0	N/A	
04/14/11	UWR12110414-00	1	2,625	50,079	93.9	0.7	160	0	0	N/A	
04/14/11	UWS31110414-00	0	1,458	51,537	97.3	0.6	N/A	0	0	N/A	
04/14/11	UWV21110414-00	0	1,017	52,554	93.8	0.5	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd³)	Cumulative Quantity Approved (yd³)	CAES Screen Passing Pixels (%)	Average Thickness (ft.)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
04/15/11	UWS31110415-00	1	1,701	54,255	93.3	0.7	185	0	0	N/A	
04/15/11	UWW27110415-00	0	1,062	55,317	93.8	0.6	N/A	0	0	N/A	
04/15/11	UWV21110415-00	0	1,221	56,538	95.1	0.6	N/A	0	0	N/A	
04/15/11	UWV21110415-01	2	1,424	57,962	96.3	0.7	160	0	0	N/A	2
04/15/11	UWQ21110415-00	1	1,251	59,213	99.4	0.6	160	0	0	N/A	
04/18/11	UWW27110418-00	1	1,416	60,629	96.7	0.8	205	0	0	N/A	
04/18/11	UWY19110418-01	0	271	60,900	91.4	0.3	N/A	0	0	N/A	
04/18/11	UWY19110418-00	0	180	61,080	84.7	0.2	N/A	0	0	N/A	
04/18/11	UWS31110418-00	1	1,726	62,806	96.5	0.7	166	0	0	N/A	
04/19/11	UWR12110419-00	1	2,428	65,234	98.8	0.7	136	0	0	N/A	
04/19/11	UWQ21110419-00	0	1,459	66,693	97.8	0.7	N/A	0	0	N/A	
04/19/11	UWS31110419-00	1	1,479	68,172	95.0	0.6	165	0	0	N/A	
04/20/11	UWQ21110420-00	0	1,538	69,710	93.8	0.7	N/A	0	0	N/A	
04/20/11	UWS31110420-00	3	1,973	71,683	95.5	0.8	166,170	0	0	N/A	6
04/20/11	UWR12110420-00	1	2,439	74,122	94.9	0.7	166	0	0	N/A	
04/21/11	UWR06110418-00	0	2,055	76,177	95.5	0.7	N/A	0	0	N/A	4
04/21/11	UWR12110421-00	1	2,428	78,605	92.6	0.7	205	0	0	N/A	
04/21/11	UWS31110421-00	0	1,866	80,471	95.4	0.7	N/A	0	0	N/A	
04/22/11	UWY19110422-00	0	451	80,922	88.2	0.5	N/A	0	0	N/A	
04/22/11	UWT19110422-00	0	175	81,097	86.0	0.5	N/A	0	0	N/A	
04/22/11	UWT19110422-01	0	140	81,237	83.7	0.4	N/A	0	0	N/A	
04/22/11	UWQ21110422-00	0	1,285	82,522	96.2	0.7	N/A	0	0	N/A	
04/22/11	UWW27110422-00	2	1,745	84,267	93.8	0.9	166,189	0	0	N/A	5
04/22/11	UWS31110422-00	1	2,133	86,400	94.7	0.8	201	0	0	N/A	
04/25/11	UWT19110425-00	0	175	86,575	83.0	0.5	N/A	0	0	N/A	
04/25/11	UWT19110425-01	0	139	86,714	90.8	0.5	N/A	0	0	N/A	
04/25/11	UWR06110425-00	1	2,067	88,781	94.1	0.7	100	0	0	N/A	
04/26/11	UWT19110426-00	0	167	88,948	86.4	0.6	N/A	0	0	N/A	
04/26/11	UWT19110426-01	0	111	89,059	85.0	0.4	N/A	0	0	N/A	
04/26/11	UWT19110426-02	0	139	89,198	80.5	0.5	N/A	0	0	N/A	
04/26/11	UWV21110426-00	1	1,165	90,363	98.4	0.6	205	0	0	N/A	
04/26/11	UWQ21110426-00	0	1,285	91,648	97.2	0.7	N/A	0	0	N/A	
04/26/11	UWR12110425-00	1	2,771	94,419	95.7	0.8	191	0	0	N/A	4
04/27/11	UWR12110427-00	1	2,354	96,773	91.1	0.7	191	0	0	N/A	
04/27/11	UWW27110427-00	1	969	97,742	96.6	0.5	197	0	0	N/A	
04/27/11	UWQ21110427-00	0	1,101	98,843	97.2	0.6	N/A	0	0	N/A	
04/27/11	UWV21110427-00	0	1,519	100,362	98.0	0.7	N/A	0	0	N/A	
04/28/11	UWR12110428-00	1	2,052	102,414	96.0	0.6	201	0	0	N/A	
04/28/11	UWS31110428-00	1	2,321	104,735	95.2	0.8	185	0	0	N/A	
04/29/11	UWW27110429-00	0	1,357	106,092	96.9	0.7	N/A	0	0	N/A	
04/29/11	UWS31110429-00	1	2,031	108,123	92.4	0.7	185	0	0	N/A	

A2. RRM
Lift Approval Summary

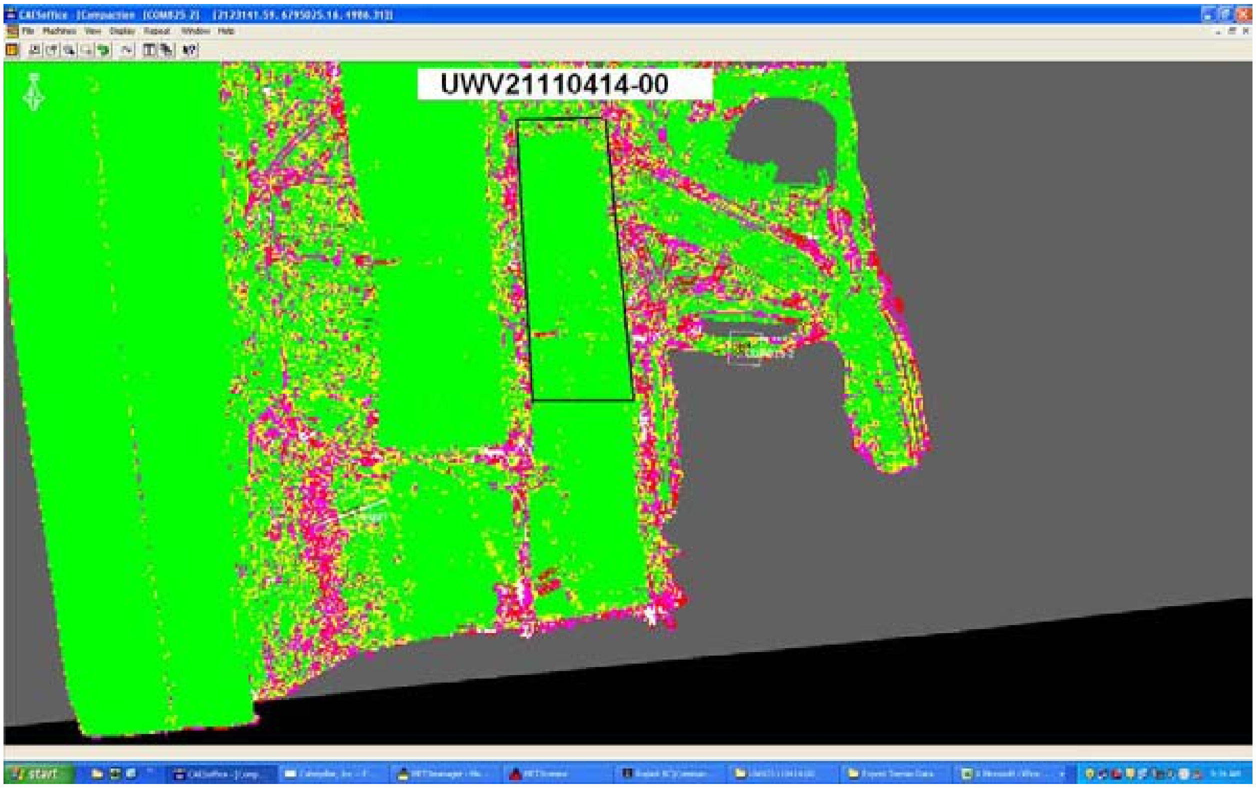
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft.)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
04/29/11	UWQ21110429-00	1	1,101	109,224	94.4	0.6	185	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 94.1
Total Quantity Approved (yd^3) = 109,224
Total # of Nuclear Density Gauge Tests = 2
Total # of Moisture Tests = 53
Quantity per Moisture Test (yd^3) = 2,061
Total Average Thickness (ft.) = 0.6

1. Lift was approved using a nuclear density gauge and the Trimble survey system, due to the fact that the CAES system was down.
2. The lift moisture content was too high, so it was ripped and allowed to dry. This is why there are multiple moisture tests done on the lift.
3. Lift was approved using the sand cone method and the Trimble survey system, due to the fact that the CAES system was down. The sand cone method was also used to verify the nuclear density gauge test.
4. Lift was placed on an earlier date, but was not approved until later. This is the reason for the difference in the date and Lift ID #.
5. Lift was worked for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
6. There was an area that was pumping after compaction. The lift was allowed to dry and was recompacted. Multiple moisture tests were taken to ensure satisfactory moisture content.

A2. RRM
Lift Approval Summary

CAES compaction screen example from April 2011. There are compaction screens 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.



A2. RRM
Lift Approval Summary

May 2011												
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 (%)	Notes
05/02/11	UWR12110502-00	1	2,381	2,381	97.1	0.8	205	0	0	N/A	
05/02/11	UWS31110502-00	1	2,609	4,990	98.8	0.9	185	0	0	N/A	
05/02/11	UWV21110502-00	1	1,761	6,751	98.5	0.7	166	0	0	N/A	
05/03/11	UWS31110503-00	1	2,319	9,070	97.6	0.8	197	0	0	N/A	
05/03/11	UWQ21110503-00	0	1,317	10,387	95.5	0.7	N/A	0	0	N/A	
05/04/11	UWW27110504-00	1	1,443	11,830	97.3	0.8	170	0	0	N/A	
05/04/11	UWT19110504-00	0	807	12,637	97.3	0.7	N/A	0	0	N/A	
05/04/11	UWV21110504-00	1	1,937	14,574	97.5	0.7	185	0	0	N/A	
05/05/11	UWW27110505-00	0	1,424	15,998	97.2	0.7	N/A	0	0	N/A	
05/05/11	UWT19110505-00	0	461	16,459	96.1	0.4	N/A	0	0	N/A	
05/05/11	UWR12110505-00	1	2,251	18,710	98.7	0.8	166	0	0	N/A	
05/05/11	UWT19110505-01	1	923	19,633	95.5	0.8	166	0	0	N/A	
05/06/11	UWV21110506-00	0	1,660	21,293	96.3	0.6	N/A	0	0	N/A	
05/06/11	UWQ21110506-00	1	1,473	22,766	97.7	0.8	166	0	0	N/A	
05/06/11	UWS31110506-00	1	2,126	24,892	96.3	0.7	180	0	0	N/A	
05/09/11	UWV21110509-00	0	1,937	26,829	97.1	0.7	N/A	0	0	N/A	1
05/09/11	UWW27110509-00	0	1,628	28,457	97.2	0.8	N/A	0	0	N/A	1
05/10/11	UWR12110510-00	1	1,721	30,178	96.7	0.6	185	0	0	N/A	
05/10/11	UWR06110510-00	1	2,833	33,011	96.1	0.8	185	0	0	N/A	
05/10/11	UWQ21110510-00	1	1,289	34,300	97.7	0.7	166	0	0	N/A	
05/10/11	UWS31110510-00	0	2,430	36,730	97.4	0.8	213	0	0	N/A	
05/10/11	UWW27110510-00	1	1,628	38,358	97.7	0.8	166	0	0	N/A	
05/11/11	UWV21110511-00	1	1,937	40,295	94.5	0.7	73	0	0	N/A	
05/11/11	UWR06110511-00	1	2,833	43,128	94.7	0.8	166	0	0	N/A	
05/12/11	UWT19110512-01	0	577	43,705	92.2	0.5	N/A	0	0	N/A	
05/12/11	UWW27110512-00	1	1,628	45,333	93.9	0.8	166	0	0	N/A	
05/12/11	UWS31110512-00	1	2,756	48,089	97.1	0.9	185	0	0	N/A	
05/12/11	UWT19110512-00	0	461	48,550	90.9	0.4	N/A	0	0	N/A	
05/13/11	UWV21110513-00	1	1,525	50,075	96.8	0.6	73	0	0	N/A	
05/16/11	UWR12110516-00	1	1,673	51,748	96.4	0.7	123	0	0	N/A	
05/16/11	UWS31110516-00	0	2,126	53,874	96.0	0.7	N/A	0	0	N/A	
05/17/11	UWQ21110517-00	2	1,289	55,163	97.0	0.7	205	0	0	N/A	2
05/17/11	UWS31110517-00	1	3,152	58,315	94.7	0.9	N/A	0	0	N/A	
05/17/11	UWW27110517-00	1	1,825	60,140	95.5	0.8	191	0	0	N/A	
05/19/11	UWX05110519-01	1	1,009	61,149	96.2	0.8	197	0	0	N/A	
05/19/11	UWX05110519-02	0	883	62,032	93.0	0.7	N/A	0	0	N/A	
05/19/11	UWX05110519-00	4	1,009	63,041	N/A	0.8	197	4	0	91.0	3,4
05/20/11	UWX05110520-00	5	1,093	64,134	97.8	0.7	N/A	0	0	N/A	
05/23/11	UWX05110520-01	1	1,093	65,227	95.1	0.7	185	0	0	N/A	
05/25/11	UWR06110525-00	3	2,479	67,706	99.6	0.7	166,191	0	0	N/A	5,6
05/25/11	UWR12110525-00	1	1,225	68,931	91.9	0.6	123	0	0	N/A	
05/26/11	UWQ21110526-00	1	1,472	70,403	96.1	0.8	180	0	0	N/A	
05/26/11	UWR12110526-00	1	1,408	71,811	96.7	0.6	166	0	0	N/A	
05/26/11	UWQ21110526-01	0	1,303	73,114	92.2	0.7	N/A	0	0	N/A	
05/26/11	UWR06110526-00	0	3,221	76,335	96.4	0.9	N/A	0	0	N/A	
05/26/11	UWV21110517-00	1	2,033	78,368	94.7	0.8	191	0	0	N/A	7
05/27/11	UWV21110527-00	0	1,779	80,147	96.3	0.7	N/A	0	0	N/A	
05/27/11	UWR06110527-00	0	2,667	82,814	95.7	0.7	N/A	0	0	N/A	
05/27/11	UWR12110527-00	0	1,408	84,222	97.5	0.6	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
05/31/11	UWQ21110531-00	1	1,104	85,326	93.0	0.6	218	0	0	N/A	
05/31/11	UWW27110531-00	1	1,141	86,467	95.4	0.5	N/A	0	0	N/A	
05/31/11	UWV21110531-00	1	2,033	88,500	93.6	0.8	180	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 96.0

Total Quantity Approved (yd^3) = 88,500

Total # of Nuclear Density Gauge Tests = 4

Total # of Moisture Tests = 45

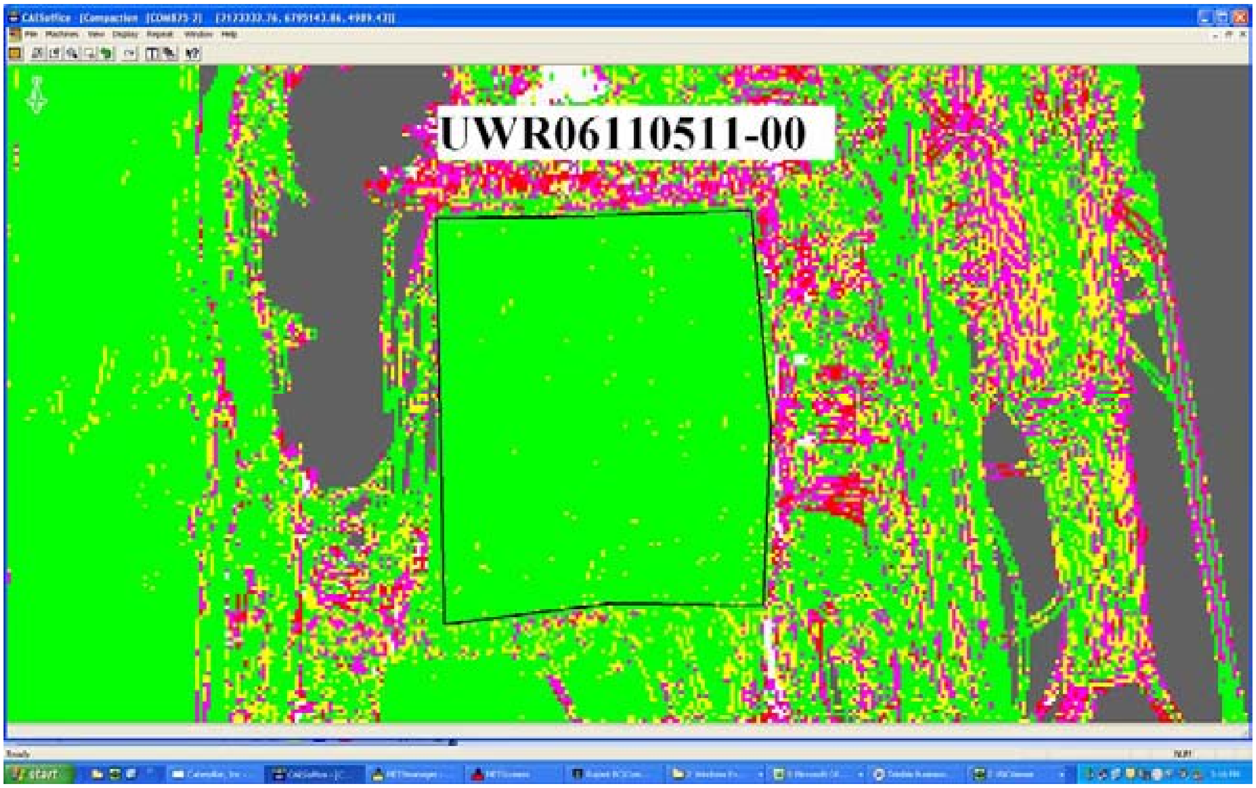
Quantity per Moisture Test (yd^3) = 1,967

Total Average Thickness (ft.) = 0.7

1. The daily moisture test for 05/09/11 was done on UWQ21110506-00 by the night shift. This lift can be found on 05/06/11.
2. The lift moisture content was visually too high due to rain, so it was reworked, recompacted, and retested. This is why there were multiple moisture tests done on the lift.
3. This is a re-approval of the lift that needed multiple tests to ensure satisfactory compaction results. This is why there are multiple nuclear density gauge tests taken on the lift.
4. Lift was approved using a nuclear density gauge and the Trimble survey system, due to the fact that the CAES system was down.
5. A moisture test was taken on the underlying lift prior to placement and another during placement to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
6. Lift was worked for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
7. Lift was placed on an earlier date, but was not approved until later. This is the reason for the difference in the date and Lift ID #.

A2. RRM
Lift Approval Summary

CAES compaction screen example from May 2011. There are compaction screens 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.



A2. RRM
Lift Approval Summary

June 2011											
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 (%)	Notes
06/01/11	UWV21110601-00	1	1,779	1,779	97.1	0.7	N/A	0	0	N/A	
06/01/11	UWW27110601-00	0	1,825	3,604	95.8	0.8	N/A	0	0	N/A	
06/02/11	UWV21110602-00	0	1,271	4,875	91.5	0.5	N/A	0	0	N/A	
06/02/11	UWT19110602-00	1	683	5,558	92.7	0.7	N/A	0	0	N/A	
06/02/11	UWS31110602-00	2	2,452	8,010	95.2	0.7	214	0	0	N/A	1
06/03/11	UWR06110603-00	1	2,753	10,763	95.0	0.7	N/A	0	0	N/A	
06/03/11	UWW27110603-00	0	1,403	12,166	92.0	0.6	N/A	0	0	N/A	
06/03/11	UWQ21110603-00	1	1,098	13,264	91.5	0.5	166	0	0	N/A	
06/03/11	UWR12110603-00	0	895	14,159	94.4	0.5	N/A	0	0	N/A	
06/03/11	UWP01110603-00	0	827	14,986	93.5	0.3	N/A	0	0	N/A	
06/06/11	UWT19110606-00	1	398	15,384	92.3	0.4	214	0	0	N/A	
06/06/11	UWT19110606-01	0	390	15,774	94.8	0.4	N/A	0	0	N/A	
06/06/11	UWV21110606-00	1	1,720	17,494	96.1	0.5	221	0	0	N/A	
06/06/11	UWW27110606-00	0	1,403	18,897	96.5	0.6	N/A	0	0	N/A	
06/06/11	UWP01110606-00	0	551	19,448	93.1	0.2	N/A	0	0	N/A	
06/07/11	UWT19110607-00	1	488	19,936	91.6	0.5	221	0	0	N/A	
06/07/11	UWR12110607-00	0	1,254	21,190	97.1	0.7	N/A	0	0	N/A	
06/07/11	UWQ21110607-00	1	1,238	22,428	96.4	0.6	214	0	0	N/A	
06/07/11	UWP01110607-00	0	2,206	24,634	93.6	0.8	N/A	0	0	N/A	
06/07/11	UWV21110607-00	0	2,086	26,720	91.6	0.6	N/A	0	0	N/A	
06/08/11	UWW27110608-00	1	1,403	28,123	98.6	0.6	221	0	0	N/A	
06/08/11	UWR12110608-00	1	1,426	29,549	93.3	0.8	205	0	0	N/A	
06/08/11	UWV21110608-00	0	2,606	32,155	94.9	0.7	N/A	0	0	N/A	
06/09/11	UWQ21110609-00	1	1,451	33,606	98.5	0.7	221	0	0	N/A	
06/09/11	UWT19110609-00	0	460	34,066	89.4	0.7	N/A	0	0	N/A	
06/09/11	UWR12110609-00	1	1,248	35,314	96.4	0.7	218	0	0	N/A	
06/10/11	UWT19110610-00	1	184	35,498	90.5	0.3	165	0	0	N/A	
06/10/11	UWV21110610-00	1	2,233	37,731	94.9	0.6	209	0	0	N/A	
06/10/11	UWQ21110610-00	0	1,551	39,282	95.5	0.7	N/A	0	0	N/A	
06/10/11	UWW27110610-00	0	2,036	41,318	97.4	0.8	N/A	0	0	N/A	
06/13/11	UWW27110613-00	0	1,527	42,845	96.6	0.6	N/A	0	0	N/A	
06/13/11	UWR12110613-00	1	1,070	43,915	93.3	0.6	209	0	0	N/A	
06/13/11	UWQ21110613-00	0	1,659	45,574	98.5	0.8	N/A	0	0	N/A	
06/14/11	UWS31110614-00	1	2,452	48,026	94.0	0.7	165	0	0	N/A	
06/14/11	UWR12110614-00	1	1,248	49,274	94.4	0.7	209	0	0	N/A	
06/14/11	UWQ21110614-00	0	1,659	50,933	94.9	0.8	N/A	0	0	N/A	
06/15/11	UWR12110615-00	1	1,070	52,003	93.8	0.6	165	0	0	N/A	
06/15/11	UWW27110615-00	1	2,036	54,039	95.8	0.8	213	0	0	N/A	
06/15/11	UWP01110615-00	0	2,206	56,245	96.5	0.8	N/A	0	0	N/A	
06/16/11	UWW27110616-00	1	1,451	57,696	91.1	0.7	223	0	0	N/A	
06/16/11	UWR12110616-00	0	1,070	58,766	94.0	0.6	N/A	0	0	N/A	
06/16/11	UWQ21110616-01	0	1,037	59,803	91.5	0.5	N/A	0	0	N/A	
06/16/11	UWQ21110616-00	0	1,659	61,462	91.8	0.8	N/A	0	0	N/A	
06/17/11	UWR12110617-00	1	1,099	62,561	97.7	0.7	221	0	0	N/A	
06/17/11	UWS31110617-00	1	2,385	64,946	94.6	0.7	77	0	0	N/A	
06/17/11	UWV21110617-00	1	2,979	67,925	94.6	0.8	N/A	0	0	N/A	
06/17/11	UWP01110617-00	0	2,611	70,536	95.6	0.9	N/A	0	0	N/A	
06/20/11	UWQ21110620-00	0	1,687	72,223	96.6	0.8	N/A	0	0	N/A	
06/20/11	UWT19110620-00	0	437	72,660	93.4	0.7	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

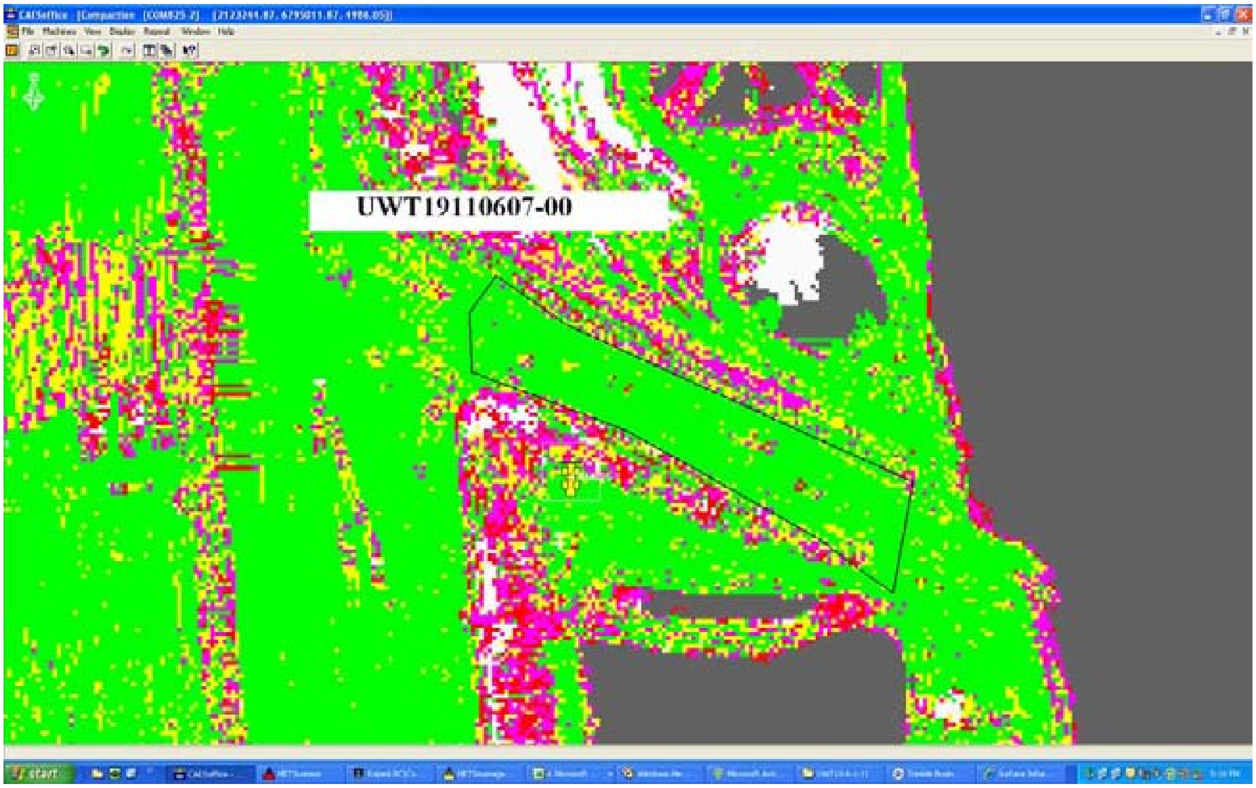
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft.)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
06/21/11	UWR12110621-00	1	1,099	73,759	94.7	0.7	218	0	0	N/A	
06/21/11	UWQ21110621-00	1	1,265	75,024	N/A	0.6	221	1	0	90.1	
06/21/11	UWV21110621-00	1	1,952	76,976	N/A	0.5	221	1	0	91.0	
06/21/11	UWR06110621-00	1	1,883	78,859	N/A	0.5	152	2	0	96.4	
06/22/11	UWS31110622-00	1	2,382	81,241	N/A	0.7	223	1	0	90.7	
06/22/11	UWR12110622-00	1	1,099	82,340	N/A	0.7	214	1	0	93.7	
06/22/11	UWQ21110622-00	1	1,898	84,238	N/A	0.9	205	1	0	91.3	
06/23/11	UWV21110623-00	1	1,171	85,409	N/A	0.3	197	1	0	92.7	
06/23/11	UWW27110623-00	1	1,532	86,941	N/A	0.6	218	1	0	90.7	
06/24/11	UWR12110624-00	1	1,099	88,040	N/A	0.7	214	1	1	94.6	
06/24/11	UWW27110624-00	1	1,782	89,822	93.5	0.7	191	0	0	N/A	
06/24/11	UWQ21110624-00	1	1,476	91,298	N/A	0.7	152	2	0	93.9	
06/24/11	UWS31110624-00	1	2,844	94,142	N/A	0.8	160,152	3	0	94.9	
06/27/11	UWR12110627-00	1	1,413	95,555	N/A	0.9	152	1	0	93.3	
06/27/11	UWQ21110627-00	1	1,265	96,820	N/A	0.6	214	2	0	90.4	
06/27/11	UWS31110627-00	0	3,601	100,421	96.2	1.0	N/A	0	0	N/A	
06/28/11	UWR06110628-00	0	2,983	103,404	95.1	0.7	N/A	0	0	N/A	
06/28/11	UWQ21110628-00	1	1,036	104,440	96.9	0.5	218	0	0	N/A	
06/28/11	UWR12110628-00	1	1,125	105,565	91.6	0.8	214	0	0	N/A	
06/29/11	UWS31110629-00	1	1,800	107,365	96.0	0.5	228	0	0	N/A	
06/29/11	UWR12110629-00	1	985	108,350	90.3	0.7	221	0	0	N/A	
06/30/11	UWQ21110630-00	0	1,451	109,801	94.9	0.7	N/A	0	0	N/A	
06/30/11	UWR12110630-00	0	985	110,786	87.0	0.7	N/A	0	0	N/A	
06/30/11	UWQ21110630-01	1	1,451	112,237	92.1	0.7	221	0	0	N/A	
06/30/11	UWS31110630-00	1	2,520	114,757	94.8	0.7	231	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 94.3
Total Quantity Approved (yd^3) = 114,757
Total # of Nuclear Density Gauge Tests = 18
Total # of Moisture Tests = 46
Quantity per Moisture Test (yd^3) = 2,495
Total Average Thickness (ft.) = 0.7

1. Lift was worked for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.

A2. RRM
Lift Approval Summary

CAES compaction screen example from June 2011. There are compaction screens 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.



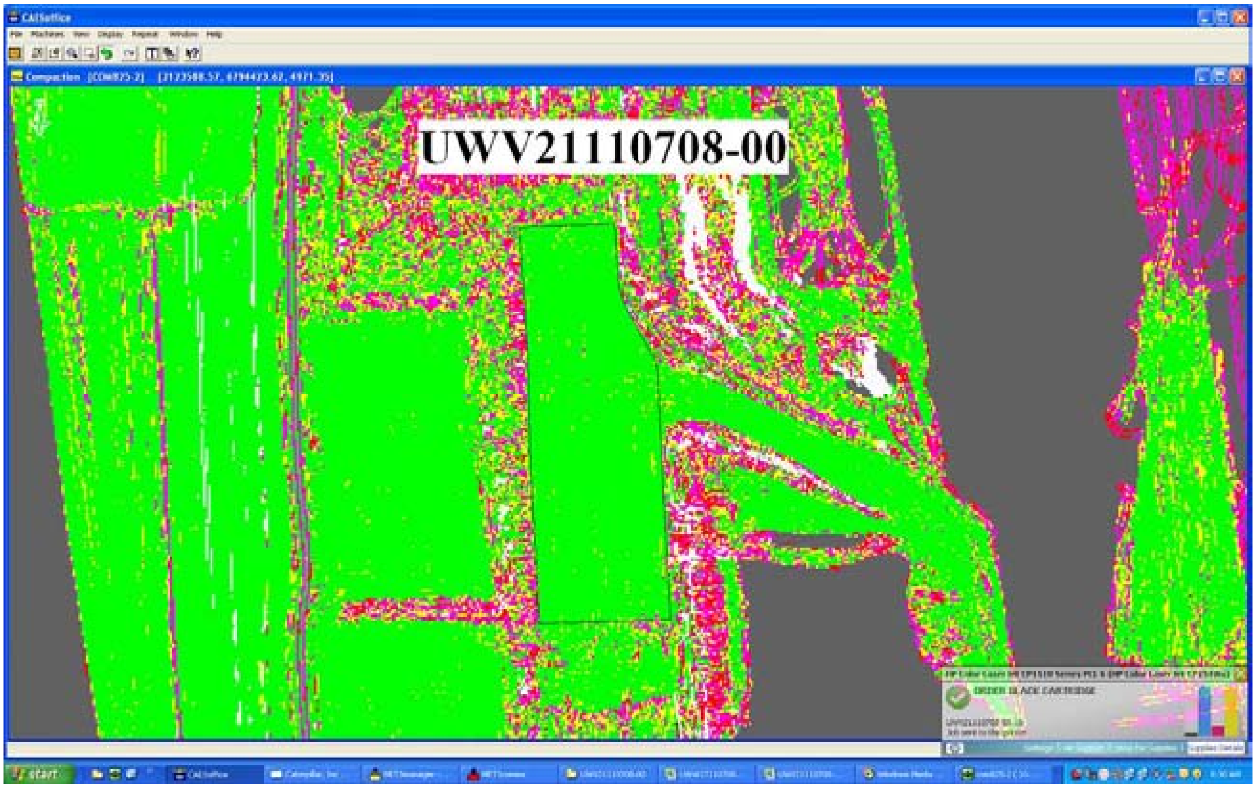
A2. RRM
Lift Approval Summary

July 2011											
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** (%)	**Notes**
07/01/11	UWR12110701-00	1	703	703	86.0	0.5	214	0	0	N/A	
07/01/11	UWS31110701-00	0	2,160	2,863	94.5	0.6	N/A	0	0	N/A	
07/02/11	UWQ21110702-00	1	1,244	4,107	92.0	0.6	214	0	0	N/A	
07/05/11	UWS31110705-00	1	2,778	6,885	94.3	0.7	170	0	0	N/A	
07/06/11	UWS31110706-00	1	3,175	10,060	96.5	0.8	221	0	0	N/A	
07/06/11	UWR12110706-00	0	1,021	11,081	97.8	0.9	N/A	0	0	N/A	
07/06/11	UWQ21110706-00	1	1,424	12,505	97.9	0.7	231	0	0	N/A	
07/07/11	UWR12110707-00	1	227	12,732	93.6	0.2	231	0	0	N/A	
07/07/11	UWS31110707-00	2	2,778	15,510	95.2	0.7	221,223	0	0	N/A	
07/07/11	UWQ21110707-00	0	1,831	17,341	92.3	0.9	N/A	0	0	N/A	
07/08/11	UWW27110708-00	0	2,267	19,608	97.3	0.9	N/A	0	0	N/A	
07/08/11	UWQ21110708-00	0	814	20,422	91.0	0.4	N/A	0	0	N/A	
07/08/11	UWV21110708-00	1	3,234	23,656	93.1	0.8	218	0	0	N/A	
07/11/11	UWR05110711-01	1	312	23,968	98.0	0.4	185	0	0	N/A	
07/11/11	UWR05110711-00	0	331	24,299	84.8	0.3	N/A	0	0	N/A	
07/11/11	UWV21110711-00	0	3,531	27,830	96.1	0.9	N/A	0	0	N/A	
07/12/11	UWR05110712-00	1	703	28,533	95.7	0.9	214	0	0	N/A	
07/12/11	UWR05110712-01	0	703	29,236	95.6	0.9	N/A	0	0	N/A	
07/13/11	UWR05110713-00	0	781	30,017	96.3	1.0	N/A	0	0	N/A	
07/13/11	UWR05110713-01	1	1,030	31,047	94.1	0.8	214	0	0	N/A	
07/13/11	UWW27110713-00	0	2,717	33,764	95.3	1.0	N/A	0	0	N/A	
07/13/11	UWR06110713-00	3	4,610	38,374	93.2	1.0	170,233	0	0	N/A	
07/13/11	UWT19110713-00	1	630	39,004	82.9	0.9	197	0	0	N/A	
07/14/11	UWS31110714-00	1	1,802	40,806	97.6	0.6	223	0	0	N/A	
07/14/11	UWT19110714-00	0	499	41,305	86.8	0.8	N/A	0	0	N/A	
07/14/11	UWR12110714-00	1	1,115	42,420	90.5	0.3	221	0	0	N/A	
07/14/11	UWR05110714-00	0	1,147	43,567	97.0	0.9	N/A	0	0	N/A	
07/18/11	UWV21110718-00	2	3,230	46,797	96.0	1.0	218	0	0	N/A	
07/19/11	UWS31110719-00	2	1,777	48,574	98.4	0.6	228	0	0	N/A	
07/20/11	UWS31110720-00	0	1,481	50,055	94.1	0.5	N/A	0	0	N/A	
07/25/11	UWT19110725-00	0	308	50,363	86.9	0.4	N/A	0	0	N/A	
07/25/11	UWV21110725-00	1	2,907	53,270	97.7	0.9	231	0	0	N/A	
07/26/11	UWX12110726-00	0	591	53,861	99.6	1.0	N/A	0	0	N/A	
07/26/11	UWW27110726-00	1	3,206	57,067	98.8	0.9	231	0	0	N/A	
07/28/11	UWA17110728-00	0	1,219	58,286	93.9	0.9	N/A	0	0	N/A	
07/28/11	UWX12110728-00	0	707	58,993	94.3	0.9	N/A	0	0	N/A	
07/29/11	UWS31110729-00	1	1,049	60,042	91.2	0.7	239	0	0	N/A	
07/29/11	UWS31110729-01	0	450	60,492	88.2	0.3	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 93.8
Total Quantity Approved (yd^3) = 60,492
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 25
Quantity per Moisture Test (yd^3) = 2,420
Total Average Thickness (ft.) = 0.7

A2. RRM
Lift Approval Summary

CAES compaction screen example from July 2011. There are compaction screens 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.



A2. RRM
Lift Approval Summary

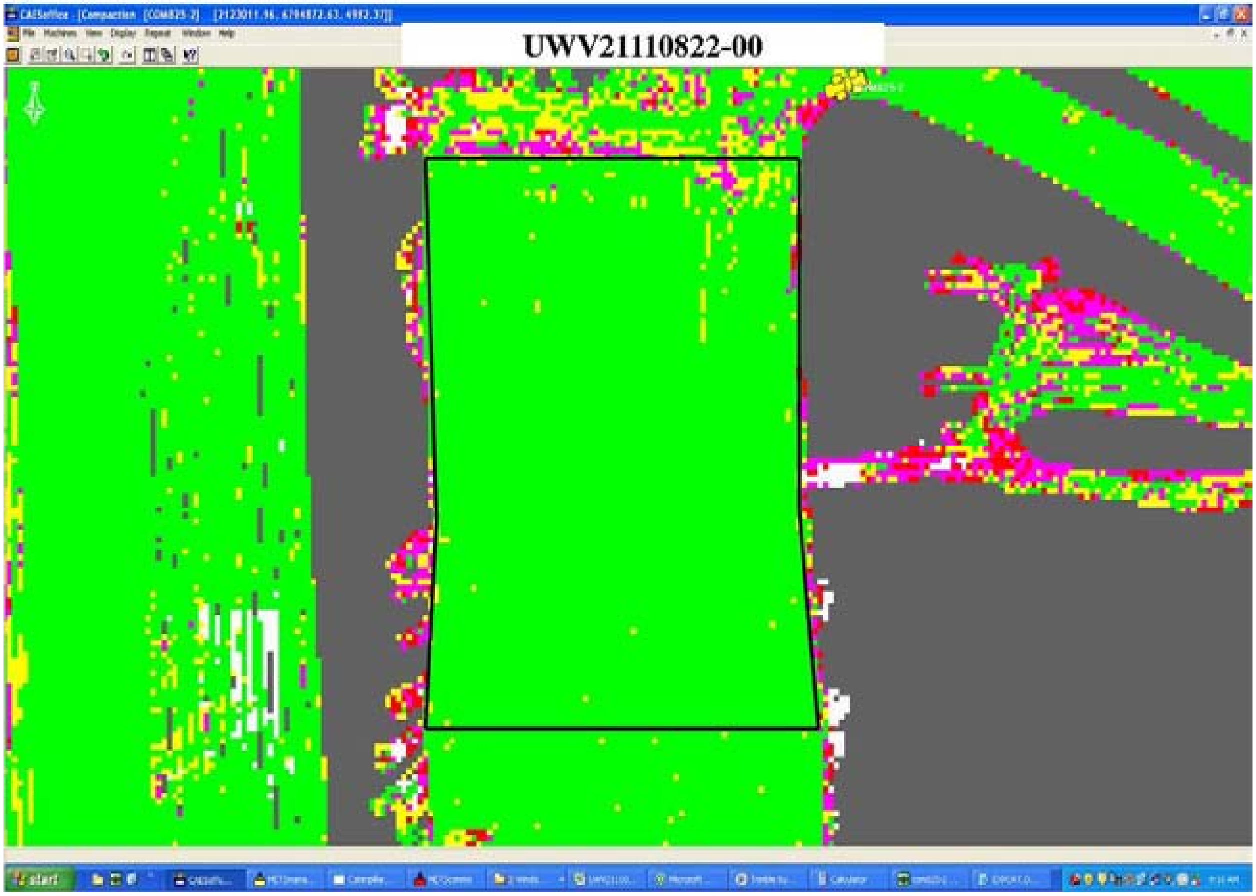
August 2011											
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft.)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
08/01/11	UWS31110801-00	0	338	338	94.0	0.5	N/A	0	0	N/A	
08/01/11	UWS31110801-01	0	68	406	95.3	0.1	N/A	0	0	N/A	
08/01/11	UWR05110801-00	0	892	1,298	93.8	0.7	N/A	0	0	N/A	
08/01/11	UWA17110801-00	0	1,227	2,525	90.4	1.0	N/A	0	0	N/A	
08/01/11	UWW27110801-00	2	3,675	6,200	90.8	1.0	166,242	0	0	N/A	
08/02/11	UWV21110802-00	1	2,984	9,184	93.9	0.9	231,166	2	0	92.5	
08/04/11	UWW27110804-00	1	3,808	12,992	N/A	1.0	166	0	0	92.2	
08/08/11	UWV21110808-00	1	1,220	14,212	N/A	0.7	231	1	0	91.1	1,3
08/09/11	UWR05110809-00	1	1,019	15,231	90.5	0.8	239	1	0	91.1	1
08/09/11	UWW27110809-00	3	3,427	18,658	N/A	0.9	239	3	0	94.0	1,3
08/10/11	UWX12110810-00	1	642	19,300	N/A	0.7	214	1	0	94.7	1,3
08/11/11	UWY32110811-00	1	137	19,437	N/A	1.0	242	1	0	90.3	1,3
08/11/11	UWV21110811-00	1	1,568	21,005	N/A	0.9	166	1	0	92.2	
08/12/11	UWR06110812-00	1	4,530	25,535	96.0	1.0	239,221	1	1	90.9	1,4
08/12/11	UW1A17110812-00	1	1,028	26,563	N/A	0.8	221	1	0	93.1	1,3
08/15/11	UWP01110815-00	2	3,666	30,229	97.4	0.8	239,152	0	0	N/A	1
08/16/11	UWW27110816-00	2	3,808	34,037	96.7	1.0	231	0	0	N/A	1,2,3
08/17/11	UW1A17110817-00	0	0	34,037	90.8	1.0	N/A	0	0	N/A	1
08/18/11	UWV21110818-00	0	1,555	35,592	97.2	1.0	N/A	0	0	N/A	1
08/19/11	UWW27110819-00	0	0	35,592	96.7	0.7	N/A	0	0	N/A	1
08/22/11	UWV21110822-00	1	2,276	37,868	94.3	0.9	231	0	0	N/A	1
08/23/11	UWY32110823-00	0	123	37,991	N/A	0.9	239	1	0	90.9	5
08/23/11	UWW27110823-00	1	855	38,846	97.0	0.3	239	0	0	N/A	
08/23/11	UWV21110823-00	1	2,160	41,006	94.7	0.8	231	0	0	N/A	1
08/24/11	UWW27110824-00	1	1,996	43,002	97.6	0.7	170	0	0	N/A	1
08/25/11	UWY32110825-00	1	96	43,098	N/A	0.7	170	1	0	90.5	5
08/25/11	UWV21110825-00	0	2,160	45,258	94.7	0.8	N/A	0	0	N/A	1
08/26/11	UWW27110826-00	1	0	45,258	97.8	1.0	170	0	0	N/A	1,2
08/29/11	UWS16110829-00	0	1,153	46,411	97.4	0.7	N/A	0	0	N/A	
08/29/11	UWV21110829-00	1	0	46,411	93.9	0.8	231	0	0	N/A	
08/30/11	UWW27110830-00	1	0	46,411	97.0	0.9	231	0	0	N/A	2
08/31/11	UWV21110831-00	1	0	46,411	97.7	0.9	170	0	0	N/A	2

Average CAES Screen Passing Pixels (%) = 95.0
Total Quantity Approved (yd^3) = 46,411
Total # of Nuclear Density Gauge Tests = 14
Total # of Moisture Tests = 27
Quantity per Moisture Test (yd^3) = 1,719
Total Average Thickness (ft.) = 0.8

1. Lift was placed on an earlier date, but was not approved until later. This is the reason for the difference in the date and Lift ID #.
2. Lift was worked for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.
3. Moisture and nuclear gauge density tests were performed to verify compaction, due to the CAES system being down.
4. QC performed a moisture/ density test to correlate with the CAES system.
5. QC approved this lift with a moisture density test(s) due to the equipment size not being able to compact a small area around a standpipe. Compaction was performed with a trackhoe.

A2. RRM
Lift Approval Summary

CAES compaction screen example from August 2011. There are compaction screens 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.



A2. RRM
Lift Approval Summary

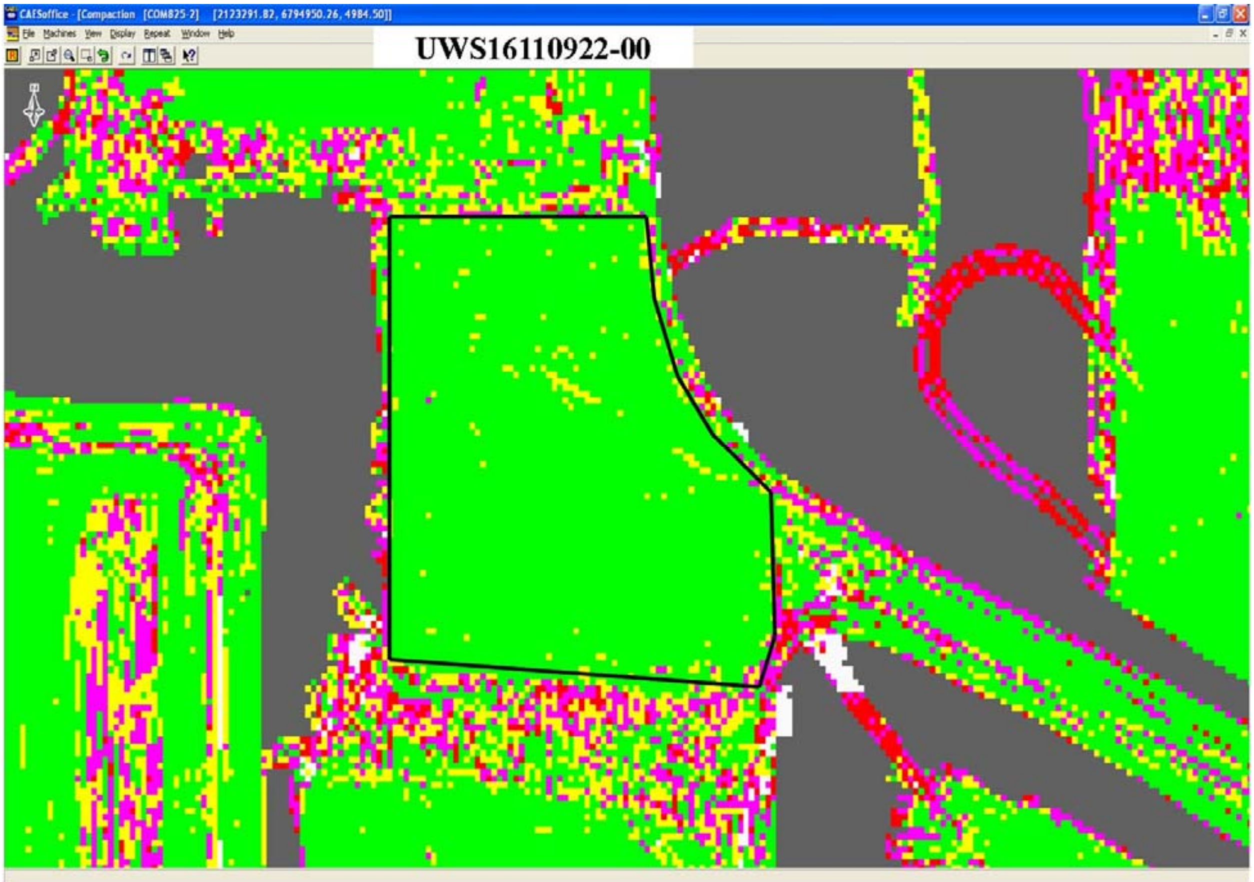
September 2011											
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft.)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
09/01/11	UWW27110901-00	1	2,692	2,692	97.8	0.9	170	0	0	N/A	
09/01/11	UWV21110901-00	1	2,286	4,978	96.8	0.9	170	0	0	N/A	2
09/02/11	UWR06110902-00	2	3,796	8,774	99.7	0.9	170	0	0	N/A	
09/07/11	UWV21110907-00	0	2,128	10,902	99.2	0.9	N/A	0	0	N/A	1
09/08/11	UWW27110908-00	1	2,694	13,596	99.0	0.9	170	0	0	N/A	2
09/09/11	UWW27110909-00	2	3,149	16,745	90.9	1.0	170,166	0	0	N/A	
09/13/11	UWV21110913-00	1	2,365	19,110	98.4	1.0	253	0	0	N/A	2
09/14/11	UWW27110914-00	1	2,834	21,944	96.2	0.9	170	1 by 3rd Party	0	97.2	
09/15/11	UWV21110915-00	1	2,365	24,309	98.3	1.0	253	0	0	N/A	2
09/16/11	UWW27110916-00	1	3,149	27,458	98.0	1.0	253	0	0	N/A	2
09/19/11	UWV21110919-00	1	2,128	29,586	98.1	0.9	239	0	0	N/A	2
09/20/11	UWV21110920-00	0	457	30,043	96.0	0.7	N/A	0	0	N/A	2
09/20/11	UWS16110920-00	1	1,551	31,594	97.1	0.9	235	0	0	N/A	2
09/21/11	UWV21110921-00	0	240	31,834	94.9	0.5	N/A	0	0	N/A	
09/21/11	UWR06110921-00	1	4,217	36,051	99.4	1.0	N/A	0	0	N/A	2
09/22/11	UWS16110922-00	1	1,551	37,602	93.6	0.9	N/A	0	0	N/A	2
09/23/11	UWS16110923-00	2	1,723	39,325	96.0	1.0	132	0	0	N/A	2
09/26/11	UWP01110926-00	0	3,957	43,282	94.9	1.0	N/A	0	0	N/A	
09/27/11	UWS16110927-00	0	1,711	44,993	98.3	1.0	N/A	0	0	N/A	1
09/27/11	UWR06110927-00	3	3,909	48,902	99.6	1.0	185	0	0	N/A	
09/28/11	UWS16110928-00	0	1,539	50,441	98.1	0.9	N/A	0	0	N/A	1
09/28/11	UWS16110928-01	1	1,711	52,152	96.6	1.0	242	0	0	N/A	2
09/29/11	UWS16110930-00	1	1,539	53,691	94.9	0.9	242	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 97.0
Total Quantity Approved (yd^3) = 53,691
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 22
Quantity per Moisture Test (yd^3) = 2,441
Total Average Thickness (ft.) = 0.9

1. Lift was placed on an earlier date, but was not approved until later. This is the reason for the difference in the date and Lift ID #.
2. Lift was worked for multiple days and moisture tests were taken each day in order to ensure satisfactory moisture content. This is why there are multiple moisture tests on this lift.

A2. RRM
Lift Approval Summary

CAES compaction screen example from September 2011. There are compaction screens 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.



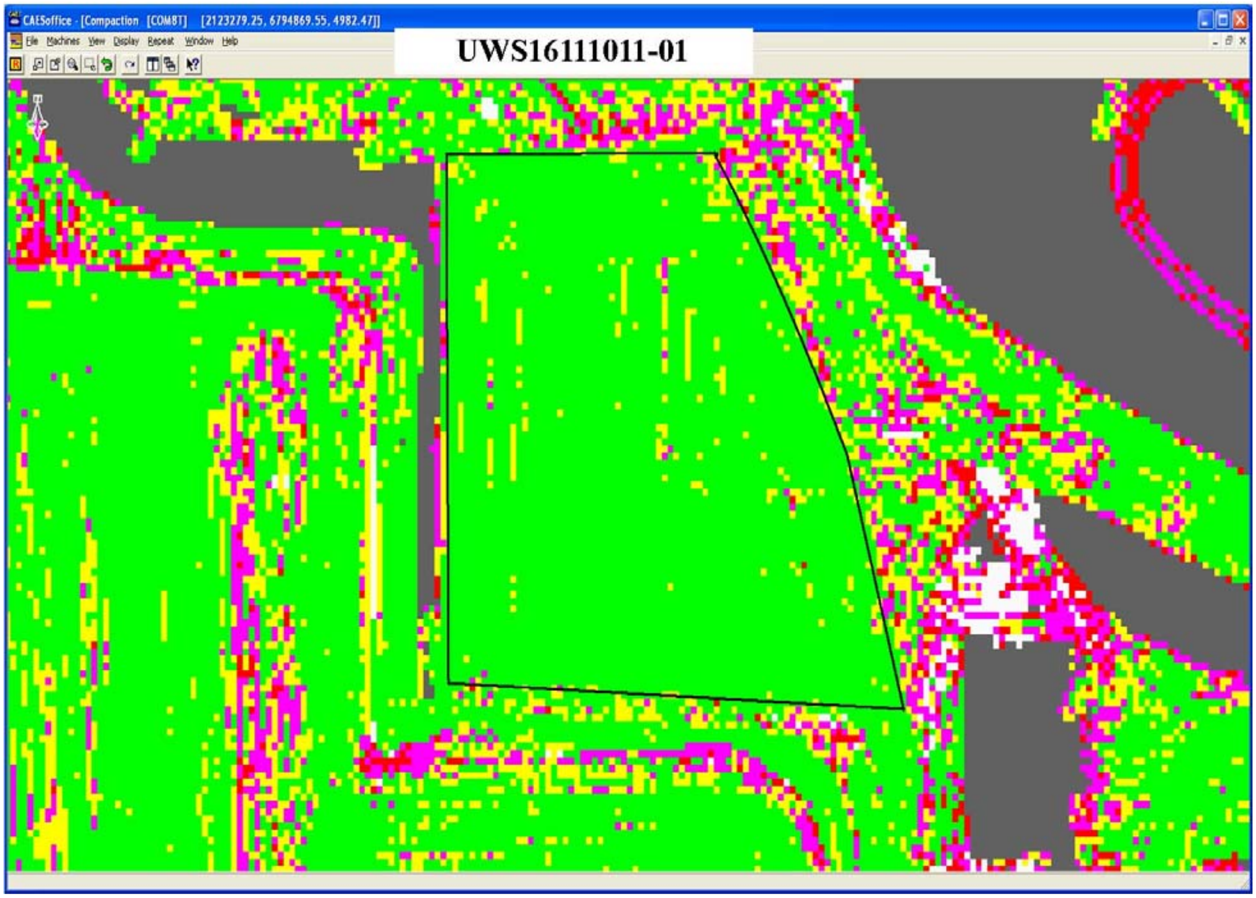
A2. RRM
Lift Approval Summary

October 2011											
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 (%)	Notes
10/03/11	UWS16111003-00	1	1,711	1,711	96.4	1.0	166	0	0	N/A	
10/04/11	UWS16111004-00	1	1,562	3,273	91.2	0.8	185	0	0	N/A	
10/05/11	UWR08111005-00	4	1,733	5,006	96.2	0.9	185,166	0	0	N/A	
10/05/11	UWS16111005-00	1	-201	4,805	97.4	-0.2	185	0	0	N/A	
10/07/11	UWS16111007-00	2	1,585	6,390	93.4	0.9	146	0	0	N/A	
10/10/11	UWS16111010-00	0	1,585	7,975	95.8	0.9	N/A	0	0	N/A	
10/11/11	UWS16111011-00	1	1,647	9,622	95.3	0.9	242	0	0	N/A	
10/11/11	UWS16111011-01	0	915	10,537	90.7	0.5	N/A	0	0	N/A	
10/11/11	UWR06111011-00	1	1,943	12,480	95.4	1.0	185	0	0	N/A	
10/12/11	UWS16111012-00	1	238	12,718	89.7	0.5	242	0	0	N/A	
10/13/11	UWR08111013-00	1	2,146	14,864	94.5	1.0	166	0	0	N/A	
10/13/11	UWR06111013-00	1	1,852	16,716	96.2	1.0	166	0	0	N/A	
10/14/11	UWR06111014-00	0	1,666	18,382	98.6	0.9	N/A	0	0	N/A	
10/17/11	UWR08111017-00	1	2,145	20,527	93.4	1.0	255	0	0	N/A	
10/18/11	UWR06111018-00	1	2,145	22,672	98.3	1.0	165	0	0	N/A	
10/19/11	UWP01111019-00	1	0	22,672	93.0	0.0	258	0	0	N/A	
10/19/11	UWR08111019-00	2	1,587	24,259	96.8	0.9	258	0	0	N/A	
10/20/11	UWR06111020-00	1	2,453	26,712	97.6	1.0	258	0	0	N/A	
10/21/11	UWR08111021-00	1	1,763	28,475	98.8	1.0	248	0	0	N/A	
10/25/11	UWR06111024-00	1	2,453	30,928	99.4	1.0	258	0	0	N/A	
10/27/11	UWR08111026-00	1	1,587	32,515	96.5	0.9	255	0	0	N/A	
10/28/11	UWR08111027-00	1	1,208	33,723	98.0	0.8	242	0	0	N/A	
10/28/11	UWR06111025-00	4	2,208	35,931	96.9	0.9	242,255	0	0	N/A	
10/28/11	UWP01111020-00	0	3,766	39,697	97.9	1.0	N/A	0	0	N/A	
10/28/11	UWR06111028-00	0	1,779	41,476	96.0	0.8	N/A	0	0	N/A	
10/31/11	UWY32111031-00	2	-50	41,426	N/A	-0.4	170	1	0	92.1	
10/31/11	UWR06111031-00	0	1,170	42,596	96.0	0.5	N/A	0	0	N/A	
10/31/11	UWX12111031-00	0	733	43,329	96.6	0.8	N/A	0	0	N/A	
10/31/11	UWR08111031-00	1	1,111	44,440	95.7	0.8	248	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 95.8
Total Quantity Approved (yd^3) = 44,440
Total # of Nuclear Density Gauge Tests = 1
Total # of Moisture Tests = 31
Quantity per Moisture Test (yd^3) = 1,434
Total Average Thickness (ft.) = 0.8

A2. RRM
Lift Approval Summary

CAES compaction screen example from October 2011. There are compaction screens 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.



A2. RRM
Lift Approval Summary

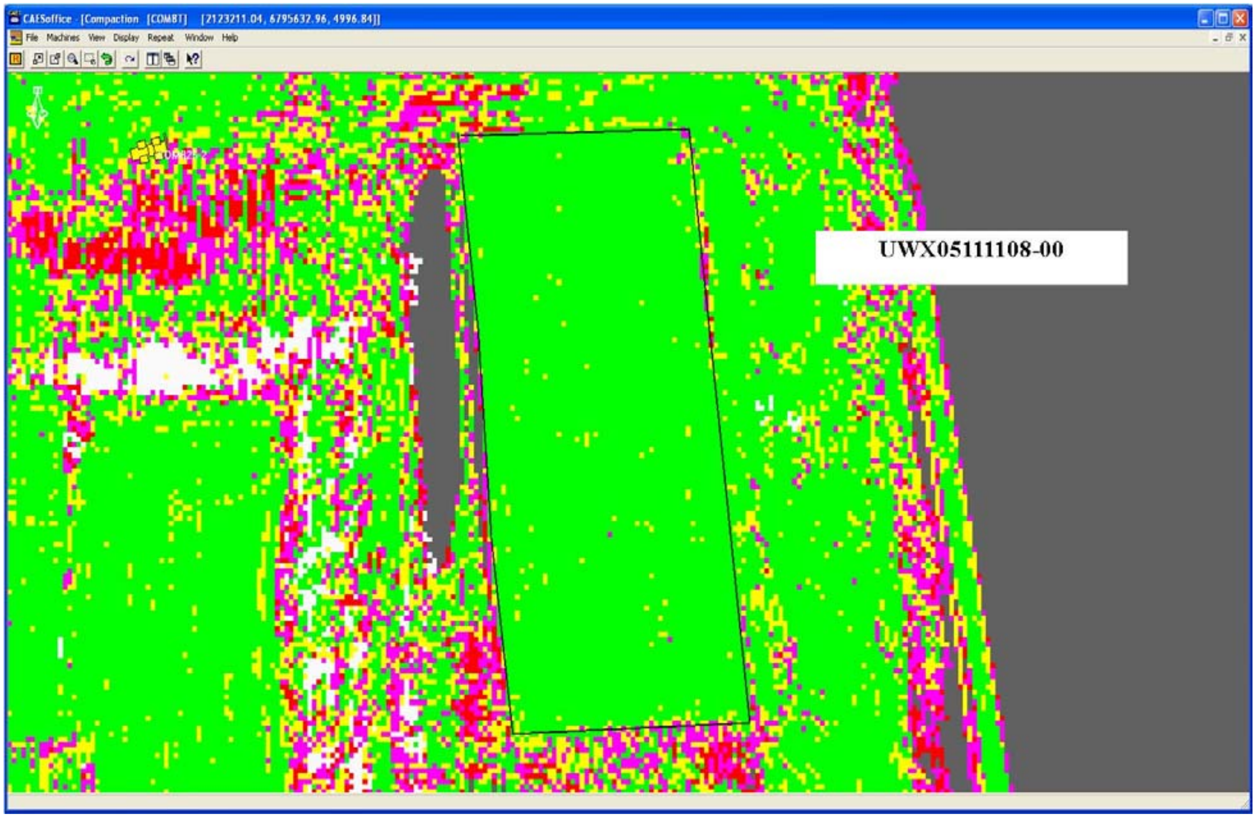
November 2011											
Date	**Lift ID #**	**# of Passing Moisture Tests**	**Quantity Approved** (yd^3)	**Cumulative Quantity Approved** (yd^3)	**CAES Screen Passing Pixels** (%)	**Average Thickness** (ft.)	**Proctor ID #**	**# of Nuclear Density Gauge Verifications**	**# of Sandcone Verifications**	**Verified Compaction** (%)	**Notes**
11/01/11	UWR08111101-00	0	416	416	98.5	0.3	N/A	0	0	N/A	
11/02/11	UWR06111101-00	1	854	1,270	99.2	0.6	255	0	0	N/A	
11/02/11	UWR08111102-00	0	1,081	2,351	96.2	0.8	N/A	0	0	N/A	
11/03/11	UWR08111103-00	1	946	3,297	96.8	0.7	258	0	0	N/A	
11/03/11	UWY32111103-00	1	12	3,309	N/A	1.0	152	1	0	91.2	1
11/03/11	UWR06111102-00	1	996	4,305	99.0	0.7	242	0	0	N/A	
11/04/11	UWR06111103-00	1	1,795	6,100	99.1	0.8	252	0	0	N/A	
11/04/11	UWX12111103-00	0	918	7,018	98.6	0.9	N/A	0	0	N/A	
11/04/11	UWY32111103-01	1	13	7,031	N/A	1.0	170	1	0	90.3	1
11/07/11	UWR08111104-00	0	2,002	9,033	97.4	0.9	N/A	0	0	N/A	
11/08/11	UWR06111107-00	2	2,019	11,052	99.0	0.9	252	0	0	N/A	
11/09/11	UWR08111108-00	0	2,221	13,273	97.1	1.0	N/A	0	0	N/A	
11/10/11	UWR06111109-00	1	2,498	15,771	99.9	1.0	258	0	0	N/A	
11/11/11	UWR08111110-00	1	1,999	17,770	95.0	0.9	242	0	0	N/A	
11/15/11	UWX05111108-00	1	1,930	19,700	97.4	0.9	252	0	0	N/A	
11/15/11	UWR06111111-00	3	2,721	22,421	98.5	1.0	242,166	0	0	N/A	
11/15/11	UWR08111114-00	0	1,901	24,322	94.0	0.9	N/A	0	0	N/A	
11/16/11	UWR06111115-00	1	2,721	27,043	99.6	1.0	231	0	0	N/A	
11/17/11	UWR06111116-00	1	2,479	29,522	96.1	0.8	258	0	0	N/A	
11/17/11	UWR08111116-00	1	1,615	31,137	94.8	0.8	242	0	0	N/A	
11/18/11	UWR06111118-00	1	620	31,757	96.9	0.2	221	0	0	N/A	
11/18/11	UWR06111117-00	0	1,239	32,996	96.0	0.4	N/A	0	0	N/A	
11/21/11	UWP01111101-00	0	3,911	36,907	95.6	1.0	N/A	0	0	N/A	
11/21/11	UWR08111121-00	1	1,613	38,520	93.8	0.8	231	0	0	N/A	
11/22/11	UWR08111122-00	1	1,412	39,932	94.4	0.7	262	0	0	N/A	
11/23/11	UWR08111123-02	0	58	39,990	99.5	0.1	N/A	0	0	N/A	
11/23/11	UWP01111121-00	0	1,822	41,812	97.5	1.0	N/A	0	0	N/A	
11/23/11	UWR08111123-00	0	1,008	42,820	93.4	0.5	N/A	0	0	N/A	
11/23/11	UWR08111123-01	0	291	43,111	98.2	0.5	N/A	0	0	N/A	
11/28/11	UWO04111123-00	1	1,436	44,547	98.2	0.8	242	0	0	N/A	
11/29/11	UWP01111128-00	1	1,822	46,369	97.4	1.0	262	0	0	N/A	
11/30/11	UWU09111129-00	0	320	46,689	85.8	0.6	N/A	0	0	N/A	
11/30/11	UWP01111130-00	0	2,059	48,748	97.4	1.0	N/A	0	0	N/A	
11/30/11	UWO04111129-00	1	1,773	50,521	96.1	0.9	262	0	0	N/A	
11/30/11	UWO04111130-00	1	1,773	52,294	99.7	0.9	262	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 96.9
Total Quantity Approved (yd^3) = 52,294
Total # of Nuclear Density Gauge Tests = 2
Total # of Moisture Tests = 24
Quantity per Moisture Test (yd^3) = 2,179
Total Average Thickness (ft.) = 0.8

1. Lift was approved using a nuclear density gauge due to the equipment size not being able to compact a small area.

A2. RRM
Lift Approval Summary

CAES compaction screen example from November 2011. There are compaction screens 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.



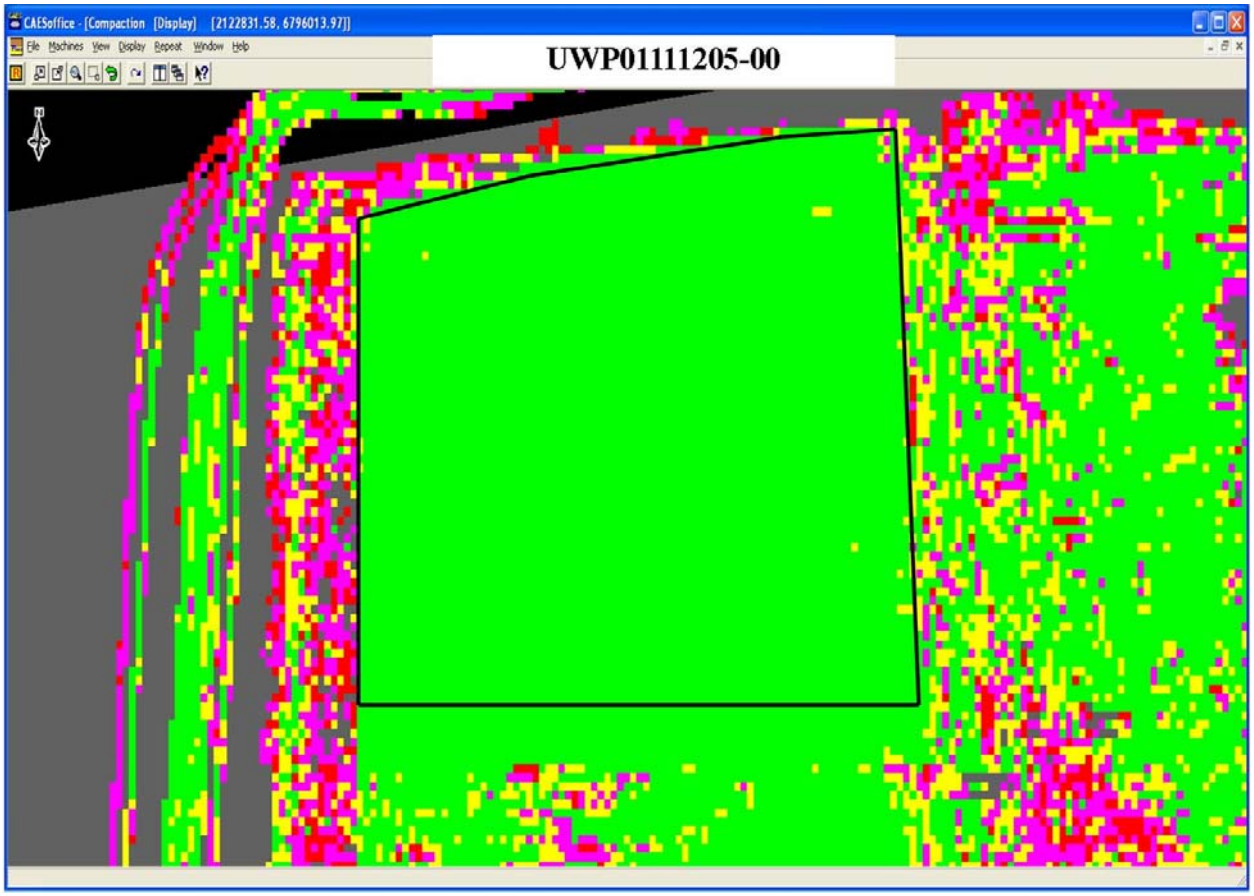
A2. RRM
Lift Approval Summary

December 2011											
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** (%)	**Notes**
12/01/11	UWY32111201-00	0	7	7	95.3	0.4	N/A	0	0	N/A	
12/01/11	UWO04111130-00	1	1,773	1,780	99.7	0.9	262	0	0	N/A	
12/01/11	UWY32111201-01	0	10	1,790	81.4	0.6	N/A	0	0	N/A	
12/02/11	UWP01111201-00	2	2,059	3,849	98.2	1.0	255	0	0	N/A	
12/02/11	UWT05111201-00	0	355	4,204	90.0	0.7	N/A	0	0	N/A	
12/05/11	UWO04111205-00	1	1,970	6,174	99.7	1.0	187	0	0	N/A	
12/05/11	UWY32111202-00	1	-1	6,173	N/A	-0.1	170	1	0	92.4	
12/06/11	UWY32111206-00	0	94	6,267	89.9	0.6	N/A	0	0	N/A	
12/07/11	UWY32111207-00	0	94	6,361	87.4	0.6	N/A	0	0	N/A	
12/07/11	UWY32111206-01	0	110	6,471	89.9	0.7	N/A	0	0	N/A	
12/07/11	UWO04111207-00	1	2,006	8,477	97.9	1.0	192	0	0	N/A	
12/07/11	UWP01111205-00	2	2,054	10,531	98.6	0.9	262	1	0	92.6	
12/08/11	UWT05111207-00	0	543	11,074	91.3	0.8	N/A	0	0	N/A	
12/09/11	UWP01111208-00	1	2,054	13,128	96.8	0.9	195	0	0	N/A	
12/12/11	UWP01111212-00	0	2,140	15,268	93.4	0.8	196	0	0	N/A	
12/12/11	UWT05111209-00	1	473	15,741	89.6	0.7	197	0	0	N/A	
12/12/11	UWO04111209-00	0	2,583	18,324	96.4	1.0	N/A	0	0	N/A	
12/14/11	UWX15111214-00	0	931	19,255	94.1	0.8	N/A	0	0	N/A	
12/14/11	UWX15111213-00	1	1,047	20,302	N/A	0.9	201	1	0	90.5	
12/14/11	UWX15111213-00	1	1,047	21,349	N/A	0.9	258	1	0	90.5	
12/15/11	UWX15111215-00	2	1,047	22,396	N/A	0.9	258	1	0	91.4	
12/15/11	UWO04111212-00	5	2,015	24,411	N/A	0.9	255	1	0	93.7	
12/15/11	UWT05111215-00	1	405	24,816	N/A	0.6	255	1	0	95.7	
12/19/11	UWO04111215-00	1	2,238	27,054	97.6	1.0	173	0	0	N/A	
12/20/11	UWT05111219-00	1	548	27,602	N/A	0.8	273	1	0	94.7	
12/20/11	UWP01111219-00	2	1,873	29,475	94.3	0.7	255	0	0	N/A	
12/21/11	UWO04111220-00	1	2,230	31,705	98.0	1.0	273	0	0	N/A	
12/21/11	UWX15111216-00	0	465	32,170	97.6	0.4	N/A	0	0	N/A	
12/22/11	UWP01111221-00	2	1,873	34,043	96.0	0.7	274	0	0	N/A	
12/22/11	UWT05111221-00	0	543	34,586	87.0	0.8	N/A	0	0	N/A	
12/28/11	UWO04111222-00	1	2,491	37,077	97.7	0.9	273	0	0	N/A	
12/29/11	UWP01111228-00	1	1,700	38,777	94.6	0.8	273	0	0	N/A	
12/30/11	UWO04111229-00	1	1,787	40,564	98.9	0.8	273	0	0	N/A	
12/30/11	UWT05111230-00	0	565	41,129	88.4	0.6	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 94.1
Total Quantity Approved (yd^3) = 41,129
Total # of Nuclear Density Gauge Tests = 8
Total # of Moisture Tests = 30
Quantity per Moisture Test (yd^3) = 1,371
Total Average Thickness (ft.) = 0.8

A2. RRM
Lift Approval Summary

CAES compaction screen example from December 2011. There are compaction screens 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.



A2. RRM
Lift Approval Summary

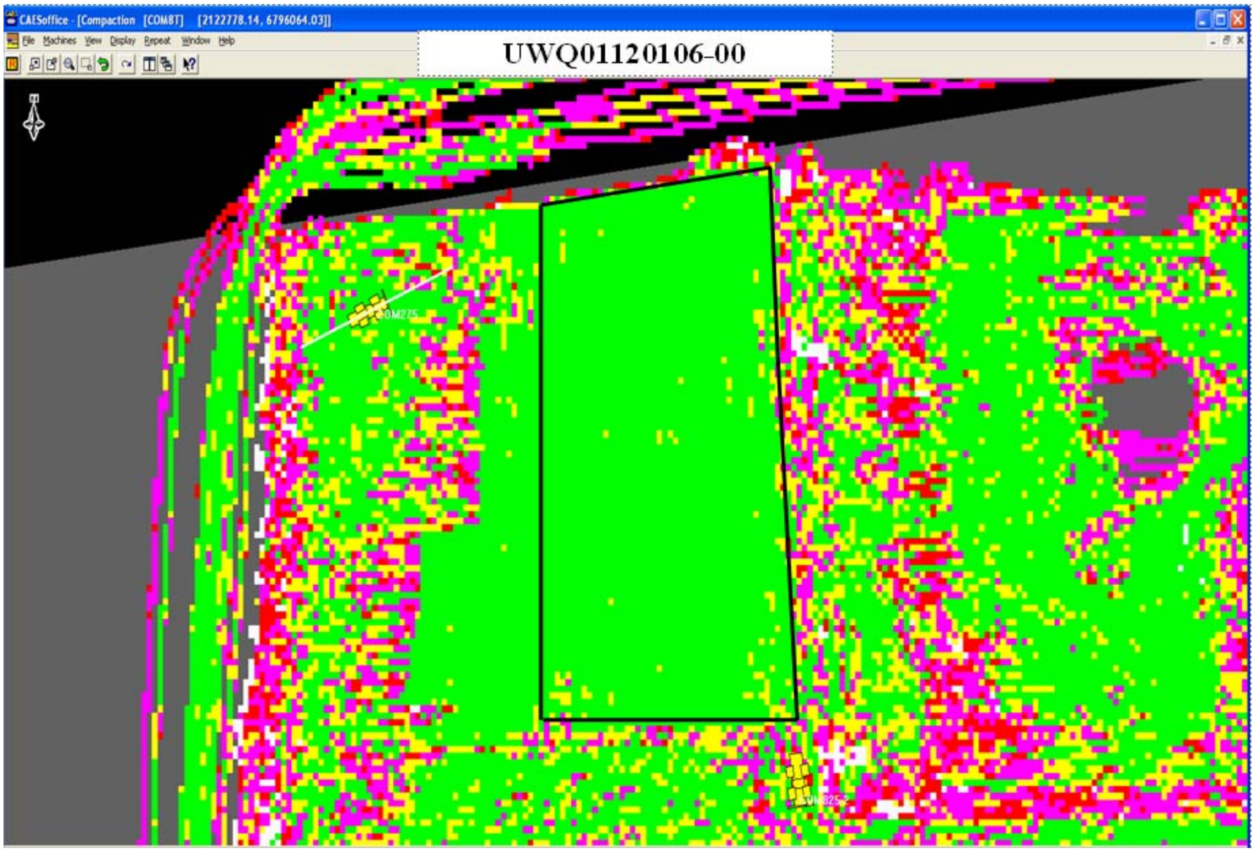
January 2012											
Date	**Lift ID #**	**# of Passing Moisture Tests**	**Quantity Approved** (yd^3)	**Cumulative Quantity Approved** (yd^3)	**CAES Screen Passing Pixels** (%)	**Average Thickness** (ft)	**Proctor ID #**	**# of Nuclear Density Gauge Verifications**	**# of Sandcone Verifications**	**Verified Compaction** (%)	**Notes**
01/04/12	UWP01111230-00	1	3,200	3,200	99.1	1.0	273	0	0	N/A	
01/05/12	No Lifts Approved	0	0	3,200	N/A	N/A	N/A	0	0	N/A	
01/06/12	No Lifts Approved	0	0	3,200	N/A	N/A	N/A	0	0	N/A	
01/10/12	UWO04120105-00	1	1,276	4,476	96.7	0.9	273	0	0	N/A	
01/10/12	UWQ04120105-00	0	1,343	5,819	96.7	0.9	N/A	0	0	N/A	
01/10/12	UWX15111228-00	0	1,442	7,261	93.8	0.9	N/A	0	0	N/A	
01/11/12	UWP01120106-00	1	1,144	8,405	98.7	0.9	258	0	0	N/A	
01/12/12	UWQ01120106-00	0	1,279	9,684	95.7	1.0	N/A	0	0	N/A	
01/12/12	UWO04120110-00	1	713	10,397	98.9	0.7	273	0	0	N/A	
01/13/12	UWQ04120110-00	1	1,194	11,591	97.5	0.8	170	0	0	N/A	
01/13/12	UWT05120111-00	0	632	12,223	94.4	0.8	N/A	0	0	N/A	
01/17/12	UWX15120112-00	0	1,602	13,825	97.1	1.0	N/A	0	0	N/A	
01/17/12	UWP01120111-00	1	1,271	15,096	99.3	1.0	273	0	0	N/A	
01/18/12	UWO04120113-00	1	1,651	16,747	97.1	1.0	258	0	0	N/A	
01/18/12	UWQ01120112-00	0	1,201	17,948	97.8	1.0	N/A	0	0	N/A	
01/19/12	UWT05120117-00	0	715	18,663	92.1	0.9	N/A	0	0	N/A	
01/19/12	UWQ04120113-00	1	869	19,532	98.0	0.6	265	0	0	N/A	
01/19/12	UWP01120117-00	1	1,375	20,907	99.3	1.0	265	0	0	N/A	
01/19/12	UWQ01120118-00	0	1,081	21,988	97.6	0.9	N/A	0	0	N/A	
01/20/12	UWO04120119-00	1	1,486	23,474	97.7	0.9	265	0	0	N/A	
01/20/12	UWQ04120119-00	1	1,319	24,793	98.1	0.9	274	0	0	N/A	
01/20/12	UWT05120120-00	0	588	25,381	94.6	0.8	N/A	0	0	N/A	
01/24/12	No Lifts Approved	1	0	25,381	N/A	N/A	265	0	0	N/A	1
01/25/12	No Lifts Approved	0	0	25,381	N/A	N/A	N/A	0	0	N/A	
01/26/12	UWX15120118-00	1	1,293	26,674	96.7	0.8	273	0	0	N/A	
01/26/12	UWP01120120-00	1	1,237	27,911	99.0	0.9	273	0	0	N/A	
01/27/12	UWO04120124-00	2	1,446	29,357	95.2	0.8	265,273	0	0	N/A	
01/31/12	UWP01120127-00	1	1,515	30,872	98.6	1.0	273	0	0	N/A	
01/31/12	UWO04120127-00	1	1,592	32,464	94.2	0.9	270	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 97.0
Total Quantity Approved (yd^3) = 32,464
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 18
Quantity per Moisture Test (yd^3) = 1,804
Total Average Thickness (ft) = 0.9

1. Daily moisture test was performed from material stockpiled.

A2. RRM
Lift Approval Summary

CAES compaction screen example from January 2012. There are compaction screens 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.



A2. RRM
Lift Approval Summary

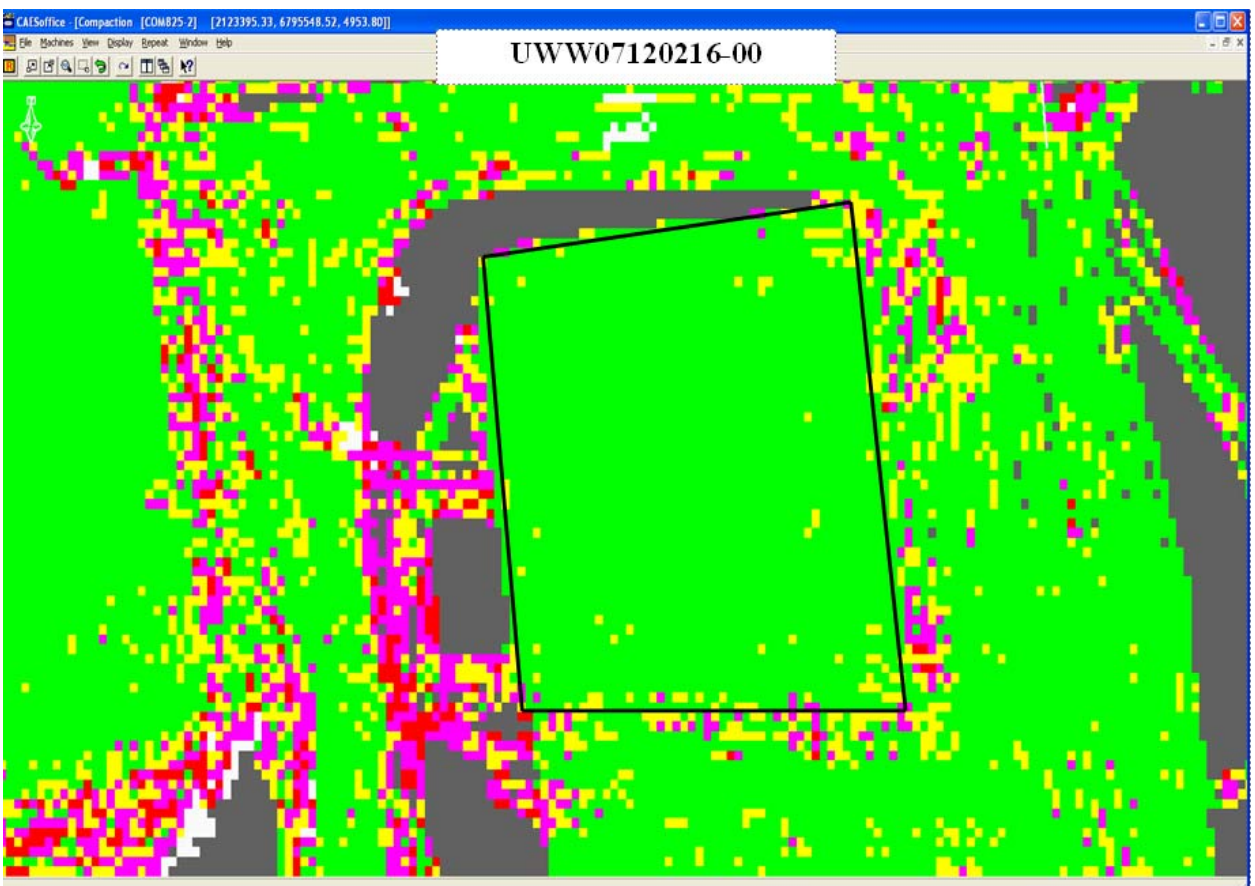
February 2012											
Date	Lift ID #	# of Passing Moisture Tests	Quantity Approved (yd^3)	Cumulative Quantity Approved (yd^3)	CAES Screen Passing Pixels (%)	Average Thickness (ft)	Proctor ID #	# of Nuclear Density Gauge Verifications	# of Sandcone Verifications	Verified Compaction (%)	Notes
02/01/12	UWQ04120201-00	0	436	436	93.6	0.9	N/A	0	0	N/A	
02/01/12	UWP01120201-00	1	1,364	1,800	97.2	0.9	274	0	0	N/A	
02/01/12	UWO04120131-00	0	1,266	3,066	94.4	0.7	N/A	0	0	N/A	
02/01/12	UWQ04120131-00	0	242	3,308	93.0	0.5	N/A	0	0	N/A	
02/02/12	UWO04120201-00	1	1,592	4,900	90.4	0.9	273	0	0	N/A	
02/02/12	UWQ04120125-00	2	1,014	5,914	93.7	0.7	274,270	0	0	N/A	
02/02/12	UWQ01120125-00	2	1,216	7,130	92.5	0.6	273	0	0	N/A	
02/03/12	UWO04120203-00	0	506	7,636	95.8	0.6	N/A	0	0	N/A	
02/03/12	UWQ01120203-00	1	1,299	8,935	90.6	1.0	279	0	0	N/A	
02/03/12	UWO04120202-00	0	1,074	10,009	92.3	0.6	N/A	0	0	N/A	
02/03/12	UWP01120202-00	0	441	10,450	95.5	0.5	N/A	0	0	N/A	
02/07/12	UWX15120202-00	0	1,930	12,380	96.0	1.0	N/A	0	0	N/A	
02/07/12	UWO04120207-00	0	337	12,717	94.0	0.4	N/A	0	0	N/A	
02/07/12	UWO04120207-01	0	75	12,792	99.2	0.4	N/A	0	0	N/A	
02/07/12	UWQ04120207-00	1	1,274	14,066	97.2	0.8	284	0	0	N/A	
02/08/12	UWQ01120207-00	1	622	14,688	81.9	0.5	274	0	0	N/A	
02/08/12	UWQ04120208-00	0	501	15,189	97.3	0.5	N/A	0	0	N/A	
02/08/12	UWT05120208-00	0	667	15,856	83.1	0.9	N/A	0	0	N/A	
02/09/12	UWQ04120209-00	0	1,528	17,384	97.4	0.9	N/A	0	0	N/A	
02/09/12	UWQ01120208-00	0	754	18,138	95.9	1.0	N/A	0	0	N/A	
02/09/12	UWQ04120208-01	1	901	19,039	97.4	0.9	274	0	0	N/A	
02/10/12	UWQ01120209-00	1	528	19,567	94.5	0.7	282	0	0	N/A	
02/10/12	UWX15120209-00	0	1,737	21,304	96.6	0.9	N/A	0	0	N/A	
02/10/12	UWQ04120210-00	0	1,189	22,493	97.3	0.7	N/A	0	0	N/A	
02/14/12	No Lifts Approved	0	0	22,493	N/A	N/A	N/A	0	0	N/A	
02/15/12	UWX15120214-00	3	1,942	24,435	96.7	1.0	274,213, 282	0	0	N/A	
02/15/12	UWW07120214-00	0	761	25,196	95.9	0.8	N/A	0	0	N/A	
02/15/12	UWX15120215-00	0	1,942	27,138	96.9	1.0	N/A	0	0	N/A	
02/16/12	UWW07120216-00	0	761	27,899	95.6	0.8	N/A	0	0	N/A	
02/16/12	UWX15120216-00	1	1,942	29,841	92.1	1.0	282	0	0	N/A	
02/17/12	UWQ01120217-00	0	453	30,294	93.6	0.6	N/A	0	0	N/A	
02/17/12	UWQ01120210-00	0	453	30,747	92.0	0.6	N/A	0	0	N/A	
02/17/12	UWQ04120217-00	2	1,358	32,105	95.3	0.8	274	0	0	N/A	
02/17/12	UWX05120217-00	0	372	32,477	93.0	0.3	N/A	0	0	N/A	
02/22/12	UWQ04120217-01	2	1,526	34,003	95.9	0.8	279,284	0	0	N/A	
02/23/12	UWQ04120222-00	0	1,526	35,529	97.2	0.8	N/A	0	0	N/A	
02/24/12	UWQ04120223-00	1	1,584	37,113	97.4	0.7	279	0	0	N/A	
02/24/12	UWQ04120224-00	1	1,241	38,354	97.9	0.7	279	0	0	N/A	
02/28/12	UWT01120210-00	0	854	39,208	99.4	0.8	N/A	0	0	N/A	
02/28/12	UWX05120223-00	1	1,096	40,304	97.1	0.8	279	0	0	N/A	
02/28/12	UWU02120208-00	2	731	41,035	96.5	0.8	282	0	0	N/A	
02/28/12	UWQ04120228-00	0	1,241	42,276	96.4	0.7	N/A	0	0	N/A	
02/28/12	UWQ04120228-01	0	351	42,627	97.0	0.3	N/A	0	0	N/A	
02/29/12	UWQ04120229-00	0	62	42,689	91.9	0.2	N/A	0	0	N/A	
02/29/12	UWT01120228-00	0	1,067	43,756	99.2	1.0	N/A	0	0	N/A	

A2. RRM
Lift Approval Summary

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 (%)	Notes
02/29/12	UWU02120229-00	0	822	44,578	99.0	0.9	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 95.0
Total Quantity Approved (yd^3) = 44,578
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 24
Quantity per Moisture Test (yd^3) = 1,857
Total Average Thickness (ft) = 0.7

CAES compaction screen example from February 2012. There are compaction screens 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.



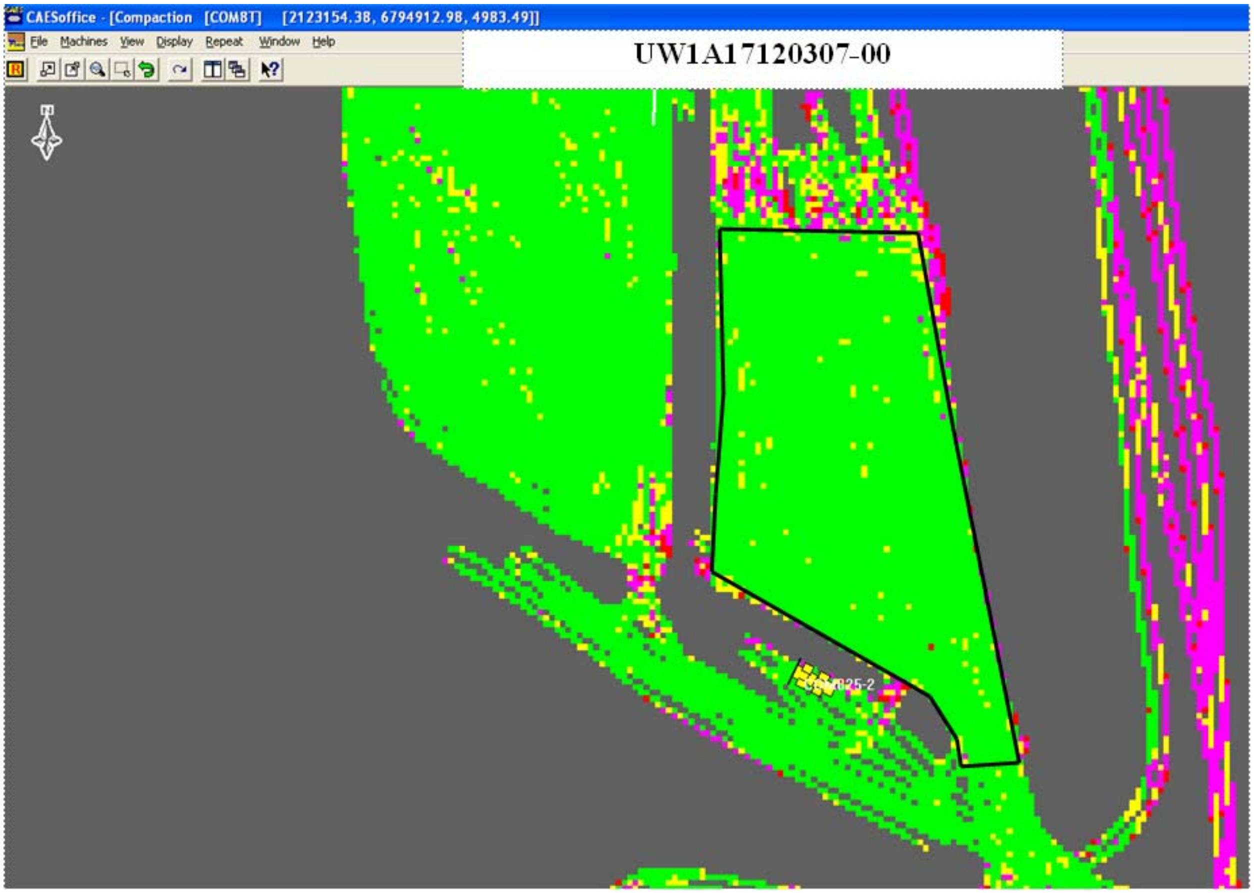
A2. RRM
Lift Approval Summary

March 2012											
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** (%)	**Notes**
03/01/12	UWX05120301-00	1	1,096	1,096	98.8	0.8	279	0	0	N/A	
03/01/12	UWT01120229-00	1	1,067	2,163	97.4	1.0	282	0	0	N/A	
03/01/12	UWX15120217-00	0	1,748	3,911	94.7	0.9	N/A	0	0	N/A	
03/02/12	UWT05120302-00	0	294	4,205	93.6	0.4	N/A	0	0	N/A	
03/02/12	UWX05120301-00	0	1,370	5,575	98.4	1.0	N/A	0	0	N/A	
03/02/12	UWU02120302-00	0	913	6,488	97.0	1.0	N/A	0	0	N/A	
03/06/12	UWW0710302-00	2	2,314	8,802	99.0	0.9	282	0	0	N/A	
03/07/12	UW1A17120307-00	0	139	8,941	95.6	0.1	N/A	0	0	N/A	
03/07/12	UWT01120306-00	1	2,105	11,046	97.8	0.9	282	0	0	N/A	
03/08/12	UWW07120307-00	0	2,571	13,617	99.6	1.0	N/A	0	0	N/A	
03/09/12	UWT01120308-00	1	2,338	15,955	98.3	1.0	258	0	0	N/A	
03/09/12	UW1A17120309-00	1	1,390	17,345	97.6	1.0	273	0	0	N/A	
03/13/12	UWW07120309-00	0	2,314	19,659	97.6	0.9	N/A	0	0	N/A	
03/14/12	UWT01120313-00	1	2,105	21,764	96.8	0.9	273	0	0	N/A	
03/15/12	UWX15120313-00	2	1,705	23,469	98.8	0.9	284	0	0	N/A	
03/16/12	UWW07120315-00	0	2,571	26,040	98.0	1.0	N/A	0	0	N/A	
03/20/12	UWT01120316-00	1	2,375	28,415	97.9	0.9	279	0	0	N/A	
03/20/12	UWY02120320-00	0	558	28,973	92.2	0.7	N/A	0	0	N/A	
03/21/12	UW1A17120321-00	1	1,259	30,232	98.3	0.9	273	0	0	N/A	
03/21/12	UWX15120320-00	1	1,726	31,958	99.0	0.9	279	0	0	N/A	
03/22/12	UWZ06120322-00	0	321	32,279	94.1	0.5	N/A	0	0	N/A	
03/23/12	UWT01120322-00	1	2,375	34,654	97.2	0.9	279	0	0	N/A	
03/23/12	UWZ06120323-00	0	450	35,104	98.6	0.7	N/A	0	0	N/A	
03/23/12	UWZ07120323-00	1	675	35,779	97.6	0.7	282	0	0	N/A	
03/27/12	UW1A17120323-00	0	1,259	37,038	96.5	0.9	N/A	0	0	N/A	
03/28/12	UWT01120327-00	1	2,375	39,413	98.6	0.9	282	0	0	N/A	
03/28/12	UWY02120328-00	0	576	39,989	92.9	0.8	N/A	0	0	N/A	
03/29/12	UW1A17120328-00	2	1,119	41,108	96.3	0.8	282	0	0	N/A	
03/30/12	UWW07120329-00	0	2,828	43,936	97.9	1.0	N/A	0	0	N/A	
03/30/12	UWT01120330-00	1	2,111	46,047	97.5	0.8	296	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 97.1
Total Quantity Approved (yd^3) = 46,047
Total # of Nuclear Density Gauge Tests = 0
Total # of Moisture Tests = 19
Quantity per Moisture Test (yd^3) = 2,424
Total Average Thickness (ft) = 0.8

A2. RRM
Lift Approval Summary

CAES compaction screen example from March 2012. There are compaction screens 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.



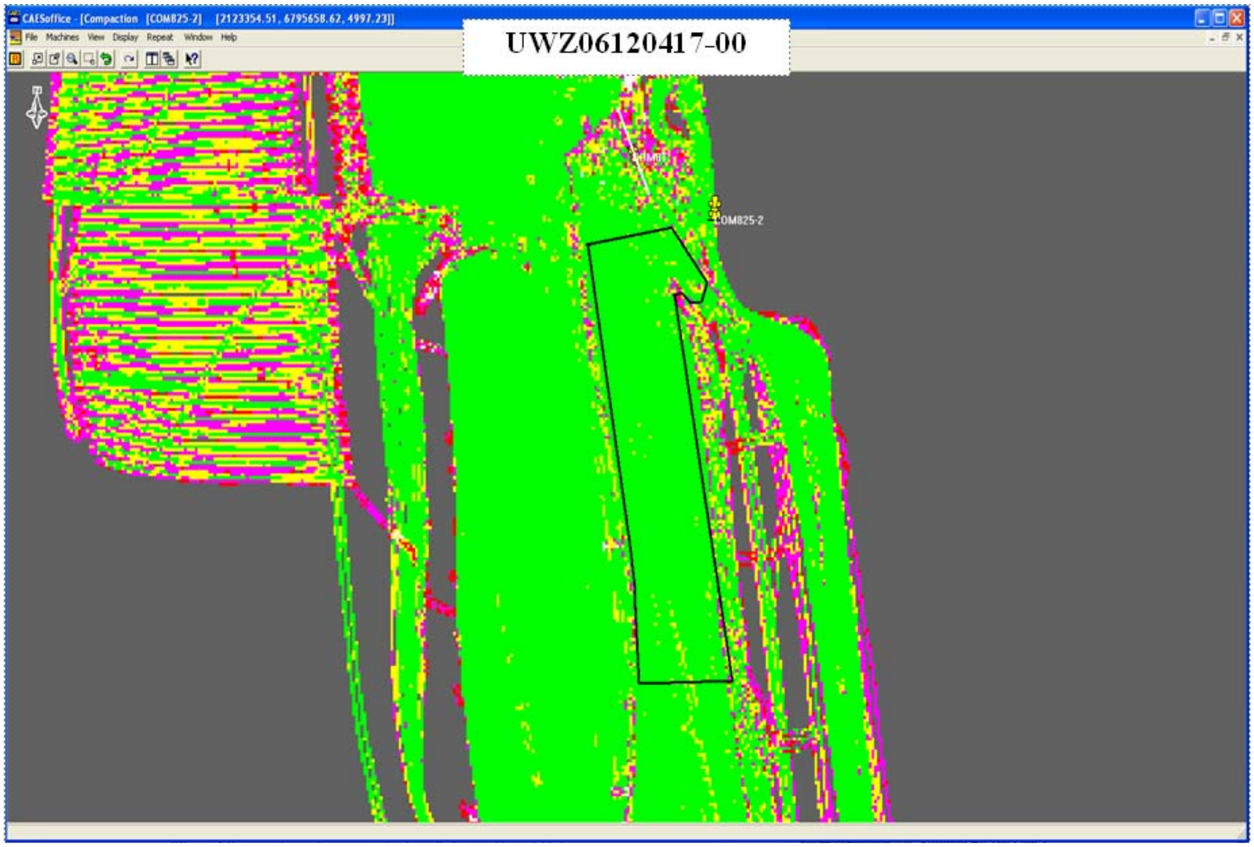
A2. RRM
Lift Approval Summary

April 2012												
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 (%)	Notes
04/03/12	UW1A17120403-00	1	1,119	1,119	95.6	0.8	296	0	0	N/A	
04/03/12	UWY02120330-00	0	637	1,756	91.5	0.8	N/A	0	0	N/A	
04/03/12	UWZ06120403-00	0	514	2,270	98.6	0.8	N/A	0	0	N/A	
04/03/12	UWZ07120403-00	0	771	3,041	97.3	0.8	N/A	0	0	N/A	
04/04/12	No Lifts Approved	0	0	3,041	N/A	N/A	N/A	0	0	N/A	
04/05/12	UWT01120404-00	2	2,706	5,747	98.4	0.8	296	1	0	92.4	
04/05/12	UWZ06120405-00	1	1,316	7,063	98.9	0.7	300	0	0	N/A	
04/06/12	UW1A17120405-00	0	1,385	8,448	97.9	0.8	N/A	0	0	N/A	
04/10/12	UWX15120406-00	1	1,802	10,250	99.7	1.0	300	0	0	N/A	
04/11/12	UWW07120410-00	1	2,203	12,453	99.8	0.8	300	0	0	N/A	
04/11/12	UW1A17120411-00	1	1,385	13,838	96.1	0.8	300	0	0	N/A	
04/12/12	UWZ06120412-00	1	1,502	15,340	96.8	0.8	300	0	0	N/A	
04/13/12	UWT01120412-00	1	3,044	18,384	97.3	0.9	296	0	0	N/A	
04/17/12	UW1A17120413-00	0	1,567	19,951	94.7	0.9	N/A	0	0	N/A	
04/18/12	UWZ06120417-00	1	1,690	21,641	94.0	0.9	296	0	0	N/A	
04/19/12	UWT01120418-00	1	3,360	25,001	98.3	1.0	296	0	0	N/A	
04/20/12	UWZ06120419-00	2	1,364	26,365	98.9	0.8	296	1	0	91.3	
04/24/12	UWT011204020-00	1	3,396	29,761	98.6	1.0	300	0	0	N/A	
04/25/12	UWT01120424-00	1	2,688	32,449	97.7	0.8	296	0	0	N/A	
04/26/12	UW1A17120425-00	1	1,184	33,633	99.2	0.7	296	0	0	N/A	
04/26/12	UWZ06120424-00	1	1,364	34,997	97.0	0.8	296	0	0	N/A	
04/27/12	UWX15120426-00	0	1,842	36,839	99.3	1.0	N/A	0	0	N/A	

Average CAES Screen Passing Pixels (%) = 97.4
Total Quantity Approved (yd^3) = 36,839
Total # of Nuclear Density Gauge Tests = 2
Total # of Moisture Tests = 17
Quantity per Moisture Test (yd^3) = 2,167
Total Average Thickness (ft) = 0.8

A2. RRM
Lift Approval Summary

CAES compaction screen example from April 2012. There are compaction screens 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.

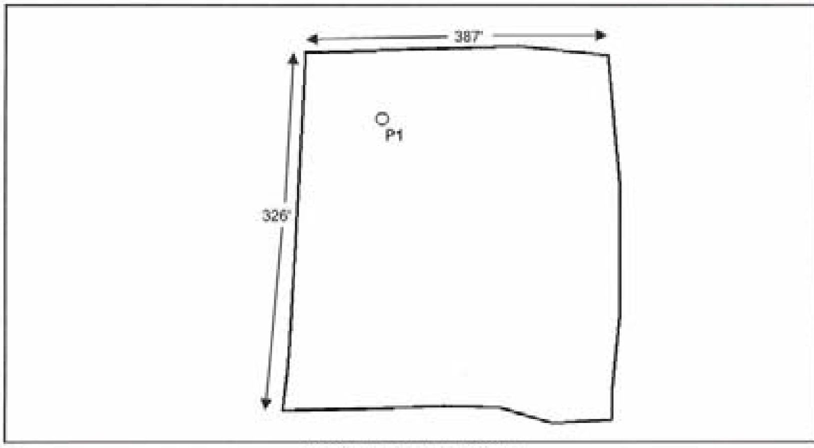


ENERGYSOLUTIONS

LIFT APPROVAL FORM

PROJECT: Moab UMTRA OTHER

NW CORNER DATE: 8/12/2011



P 1	6795500 N, 2122950 E.					
EW:	387	X	0.222	=	86	
NS:	326	X	0.199	=	65	
P 2						
EW:		X		=		
NS:		X		=		
P 3						
EW:		X	N	=		
NS:		X		=		
P 4			A			
EW:		X		=		
NS:		X		=		
P 5						
EW:		X		=		
NS:		X		=		
Page 2 attached:				Y		N

IDENTIFY LOTS ABOVE

LIFT ID: UWR06110812-00 NW CORNER: 6795565 N. 2122864 E.

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 N/A NS Dimension N/A

Lift Area (ft²): 122,323 Lift Volume (yd³): 4,530

Comments: QC verified that the lift area was scarified prior to placement. The daily moisture tests for 08-12-11and 08-15-11 was performed on this lift. Both moisture tests failed due to high moisture. QC will performed another moisture test prior to approval. On 8-17-11 the compactor was put back into service and Operations compacted the lift area. QC performed a moisture/ density test and a sandcone in correlation with the CAES. These tests were satisfactory. DIFFERENT PROCTORS WERE USED DUE TO MULTIPLE SHIPMENTS PLACED ON THIS LIFT. [illegible]

KEYING IN NOTES: N E S W Satisfactory MOISTURE/ DENSITY TESTS ID # (S): 1, 2, 3

LIFT APPROVED BY: Mitch Hogan/ [signature] DATE: 8/19/2011 TIME: 1252

[signature] 8.25.11

QA/QC APPROVAL DATE

Density Testing
DOE-EM/GJRAC1783
Rev. 0

QC-F-001
File index No. 43.8.2
Page 1 of 7

ENERGYSOLUTIONS

Slope Elevation Survey

	Average lift thickness=		1.0	Bounding Box	Northing	Easting	
	Grid Size=	50'		Lower Left	N		
Lift ID:	UWR06110812-00			Upper Right		A	
Last Lift Elevations			Lift Approval Elevations			Lift Thickness	
Northing	Easting	Elevation	Northing	Easting	Elevation	Thickness	
6795195	2122868	4972.2	6795195	2122868	4972.8	0.6	OK
6795245	2122868	4971.4	6795245	2122868	4972.1	0.8	OK
6795295	2122868	4971.5	6795295	2122868	4972.2	0.8	OK
6795345	2122868	4971.9	6795345	2122868	4972.6	0.7	OK
6795395	2122868	4972.4	6795395	2122868	4973.3	0.9	OK
6795445	2122868	4973.2	6795445	2122868	4974.1	0.9	OK
6795495	2122868	4974.4	6795495	2122868	4975.2	0.8	OK
6795545	2122868	4974.8	6795545	2122868	4975.5	0.7	OK
6795195	2122918	4972.1	6795195	2122918	4973.0	0.9	OK
6795245	2122918	4970.8	6795245	2122918	4971.9	1.1	OK
6795295	2122918	4970.7	6795295	2122918	4971.9	1.1	OK
6795345	2122918	4971.3	6795345	2122918	4972.4	1.1	OK
6795395	2122918	4972.0	6795395	2122918	4973.1	1.1	OK
6795445	2122918	4972.6	6795445	2122918	4973.9	1.2	OK
6795495	2122918	4973.5	6795495	2122918	4974.8	1.3	OK
6795545	2122918	4974.0	6795545	2122918	4974.9	0.9	OK
6795195	2122968	4972.3	6795195	2122968	4973.4	1.1	OK
6795245	2122968	4970.9	6795245	2122968	4972.0	1.1	OK
6795295	2122968	4970.7	6795295	2122968	4971.9	1.1	OK
6795345	2122968	4971.2	6795345	2122968	4972.3	1.1	OK
6795395	2122968	4971.8	6795395	2122968	4973.0	1.2	OK
6795445	2122968	4972.2	6795445	2122968	4973.4	1.2	OK
6795495	2122968	4972.7	6795495	2122968	4974.0	1.3	OK
6795545	2122968	4973.6	6795545	2122968	4974.4	0.8	OK
6795195	2123018	4972.3	6795195	2123018	4973.3	1.0	OK
6795245	2123018	4970.9	6795245	2123018	4972.0	1.1	OK
6795295	2123018	4970.8	6795295	2123018	4971.9	1.1	OK
6795345	2123018	4971.1	6795345	2123018	4972.1	1.0	OK
6795395	2123018	4971.1	6795395	2123018	4972.3	1.2	OK
6795445	2123018	4971.5	6795445	2123018	4972.7	1.2	OK
6795495	2123018	4972.4	6795495	2123018	4973.5	1.1	OK
6795545	2123018	4973.4	6795545	2123018	4974.1	0.7	OK
6795195	2123068	4972.5	6795195	2123068	4973.3	0.9	OK
6795245	2123068	4971.2	6795245	2123068	4972.3	1.1	OK
6795295	2123068	4970.9	6795295	2123068	4971.9	1.1	OK
6795345	2123068	4970.7	6795345	2123068	4971.7	1.0	OK
6795395	2123068	4970.7	6795395	2123068	4971.8	1.2	OK
6795445	2123068	4971.4	6795445	2123068	4972.5	1.0	OK
6795495	2123068	4972.1	6795495	2123068	4973.3	1.1	OK
6795545	2123068	4973.1	6795545	2123068	4973.7	0.6	OK
6795195	2123118	4972.9	6795195	2123118	4973.7	0.9	OK
6795245	2123118	4971.6	6795245	2123118	4972.7	1.1	OK
6795295	2123118	4970.6	6795295	2123118	4971.7	1.2	OK
6795345	2123118	4970.2	6795345	2123118	4971.3	1.1	OK
6795395	2123118	4970.1	6795395	2123118	4971.4	1.3	OK
6795445	2123118	4971.1	6795445	2123118	4972.1	1.0	OK
6795495	2123118	4972.2	6795495	2123118	4973.3	1.1	OK
6795545	2123118	4973.4	6795545	2123118	4974.0	0.6	OK
		[illegible]				0.0	OK

EnergySolutions

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% =6	96.0%
Elevation Avg	4972.8
Total =6	10786
Total Lines	11234

Pass

Minimum Number of Machine Passes: 3

Lift ID: UWR06110812-00

Northing	Easting	Elevation	# of Passes	Passes =6	Count
6795185	2122845	4973.6	1		1
6795188	2122845	4973.2	3		1
6795191	2122845	4973.1	3		1
6795195	2122845	4973.0	2		1
6795198	2122845	4972.9	6	1	1
6795185	2122848	4973.6	2		1
6795188	2122848	4973.0	6	1	1
6795191	2122848	4972.9	6	1	1
6795195	2122848	4972.8	6	1	1
6795198	2122848	4972.6	6	1	1
6795201	2122848	4972.6	6	1	1
6795205	2122848	4972.5	6	1	1
6795208	2122848	4972.4	6	1	1
6795211	2122848	4972.2	6	1	1
6795214	2122848	4972.2	6	1	1
6795218	2122848	4972.2	6	1	1
6795221	2122848	4972.2	6	1	1
6795224	2122848	4972.2	6	1	1
6795228	2122848	4972.1	6	1	1
6795185	2122851	4973.1	1		1
6795188	2122851	4973.1	6	1	1
6795191	2122851	4973.0	6	1	1
6795195	2122851	4972.8	6	1	1
6795198	2122851	4972.6	6	1	1
6795201	2122851	4972.6	6	1	1
6795205	2122851	4972.5	6	1	1
6795208	2122851	4972.4	6	1	1
6795211	2122851	4972.4	6	1	1
6795214	2122851	4972.3	6	1	1
6795218	2122851	4972.2	6	1	1
6795221	2122851	4972.2	6	1	1
6795224	2122851	4972.2	6	1	1
6795228	2122851	4972.1	6	1	1
6795231	2122851	4972.1	6	1	1
6795234	2122851	4972.1	6	1	1
6795237	2122851	4972.0	6	1	1
6795241	2122851	4972.0	6	1	1
6795244	2122851	4972.0	6	1	1
6795247	2122851	4972.0	6	1	1
6795251	2122851	4972.0	6	1	1
6795254	2122851	4972.1	6	1	1
6795257	2122851	4972.1	6	1	1
6795260	2122851	4972.1	6	1	1
6795264	2122851	4972.1	6	1	1

Lift Height: 1' 0"

Thick Lift Threshold: 2' 0"

Last Lift Elevation: N/A

Min. # of Wheel Passes: 6

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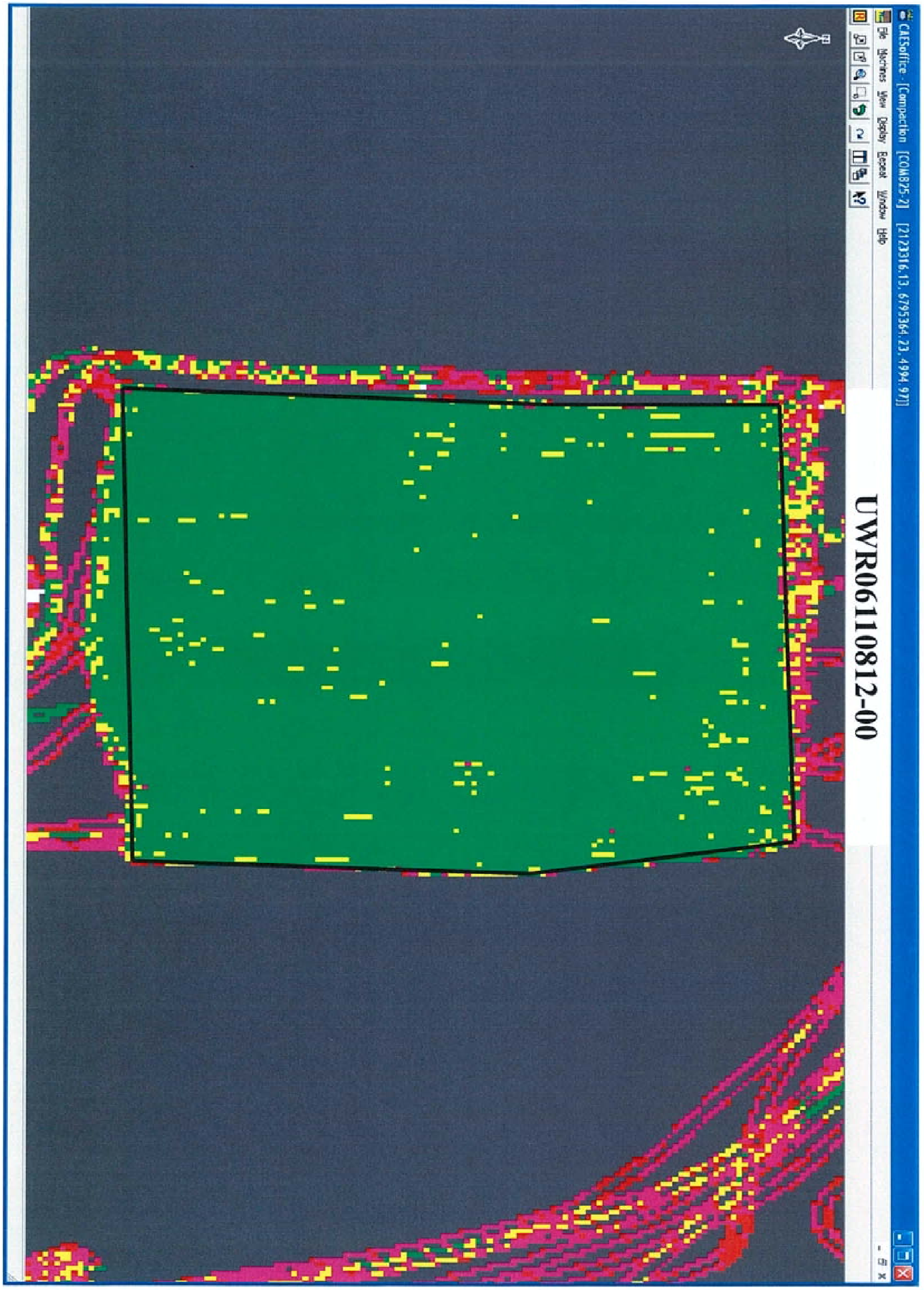
UWR06110812-00
File Machines View Display Repeat Window Help

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ENERGYSOLUTIONS

FIELD DENSITY TEST

PROJECT: Moab UMTRA Project | OTHER ______
LIFT IDENTIFICATION: UWR06110812-00 | DATE: 8/12/2011
TEST ID NUMBER(S): # 1
TEST LOCATION: Lift Area | TEST METHOD: N/A D1556 N/A D6938

ASTM D6938 (DENSITY DETERMINATION)

N A

Make/Model ______ Gauge Serial # ______
Last Calibration Date: ______
Daily Standard Counts:
Density ______ Moisture ______
____ Method A (Direct Transmission) or ____ Method B (Backscatter)
Depth Setting ____ (inches) Count Time ____ (minutes)
Moisture Count ______ Density Count ______
Wet Density (ρ_m) ______ (lbs/ft^3) Dry Density ______ (lbs/ft^3)
Moisture Density ______ (lbs/ft^3) Moisture Fraction ______ (%)

ASTM D1556 (DENSITY DETERMINATION)

N A

Testing Apparatus ______ Calibrated Vol. (lbs/ft^3) ______
Bulk Density of sand (ρ_1) ______ g/cm^3 ______ lbs/ft^3
Mass of Sand to Fill Cone & Plate (M_2) ______ g

Mass of bottle & cone **before** filling cone, plate & hole		g
Mass of bottle & cone **after** filling cone, plate & hole		g
Mass of sand to fill cone, plate, & hole (M_1)		g
Mass of sand to fill hole		g
Mass of wet soil & container		g
Mass of container		g
Mass of wet soil (M_3)		g

Test Hole Volume $V = (M_1 - M_2) / \rho_1$ ______ cm^3
Dry Mass of soil $M_4 = 100\, M_3 / (w + 100)$ ______ g
Wet Denisty $\rho_m = (M_3 / V) \times 62.43$ ______ lbs/ft^3
Dry Denisty $\rho_d = M_4 / V$ ______ g/cm^3
Dry Unit Weight $\gamma_d = \rho_d \times 62.43$ ______ lbs/ft^3

MOISTURE DETERMINATION
ASTM D4643

Container ID **D-7**

Mass of container & wet specimen (M_{cms})	479.4	g
Mass of container & dry specimen (M_{cds})	439.0	g
Mass of water (M_w) $M_w = M_{cms} - M_{cds}$	40.4	g
Mass of container (M_c)	211.5	g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$	227.5	g
Moisture content (w) $w = (M_w / M_s) \times 100$	17.8	%

Dry Density $(\rho_d) = (100 \times \rho_m)/(100 + w)$

N A

$\rho d = (100 \times$ ##### $)/(100 +$ 17.8 $)$ = 0.0 lbs/ft^3
Note: Wet Density from ASTM D 1556 (ρ_m) takes presidence over ASTM D 6938 (ρ_m)

Percent Compaction = ρ_d / $\gamma_d max \times 100$
0.0 / 110.3 x 100 = 0.0 %

Soil Description: Light brown very fine to medium, well graded, subround sand with clay.
Proctor ID: RRM # 239
Standard Proctor (ASTM D698)
Maximum Dry Density ($\gamma_d max$) 110.3 (lbs/ft^3)
Optimum Moisture (w_{opt}) 14.2 (%)
Required Moisture: 11.2 % to 17.2 %
Required Percent Compaction: 90.0 (%)

Comments:
Microwave oven power setting on HIGH. Initial time setting of 3 minutes and subsequent incremental drying periods of 1 minute until a change of 0.1 % or less of the initial wet mass of the soil.

TEST RESULTS:
~~X~~ Pass — Date: 8/12/11
X Failed Moisture
Failed Compaction — Time: 1030
By: Mitch Hogan / [signature]
(print) (signature)

[signature] 8-25-11
QA/QC APPROVAL DATE

Density Testing
DOE-EM/GJRAC1783
Rev. 0

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ENERGYSOLUTIONS

FIELD DENSITY TEST

PROJECT: Moab UMTRA Project | **OTHER** ____

LIFT IDENTIFICATION: UWR06110812-00 | DATE: 8/12/2011

TEST ID NUMBER(S): #2

TEST LOCATION: Lift Area | TEST METHOD: N/A D1556 N/A D6938

ASTM D6938 (DENSITY DETERMINATION) (struck through: NA)

Make/Model ____ Gauge Serial # ____
Last Calibration Date: ____
Daily Standard Counts:
Density ____ Moisture ____
____ *Method A (Direct Transmission)* or ____ *Method B (Backscatter)*
Depth Setting ____ *(inches)* Count Time ____ *(minutes)*
Moisture Count ____ Density Count ____
Wet Density (ρ_m) ____ (lbs/ft^3) Dry Density ____ (lbs/ft^3)
Moisture Density ____ (lbs/ft^3) Moisture Fraction ____ (%)

ASTM D1556 (DENSITY DETERMINATION) (struck through: NA)

Testing Apparatus ____ Calibrated Vol. (lbs/ft^3) ____
Bulk Density of sand (ρ_1) ____ g/cm^3 ____ lbs/ft^3
Mass of Sand to Fill Cone & Plate (M_2) ____ g
Mass of bottle & cone **before** filling cone, plate & hole ____ g
Mass of bottle & cone **after** filling cone, plate & hole ____ g
Mass of sand to fill cone, plate, & hole (M_1) ____ g
Mass of sand to fill hole ____ g
Mass of wet soil & container ____ g
Mass of container ____ g
Mass of wet soil (M_3) ____ g
Test Hole Volume $V = (M_1 - M_2)/\rho_1$ ____ cm^3
Dry Mass of soil $M_4 = 100\, M_3/(w+100)$ ____ g
Wet Denisty $\rho_m = (M_3/V) \times 62.43$ ____ lbs/ft^3
Dry Denisty $\rho_d = M_4/V$ ____ g/cm^3
Dry Unit Weight $\gamma_d = \rho_d \times 62.43$ ____ lbs/ft^3

MOISTURE DETERMINATION
ASTM D4643

Container ID: **D-5**

Mass of container & wet specimen (M_{cms})	599.0	g
Mass of container & dry specimen (M_{cds})	539.1	g
Mass of water (M_w) $M_w = M_{cms} - M_{cds}$	59.9	g
Mass of container (M_c)	211.1	g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$	328.0	g
Moisture content (w) $w = (M_w / M_s) \times 100$	18.3	%

Soil Description: Tan Light brown very fine to medium, moderately sorted, subround sand with abundant some clay.

Proctor ID: **RRM # 221**
Standard Proctor (ASTM D698)

Dry Density $(\rho_d) = (100 \times \rho_m)/(100 + w)$ (struck through: NA)

$\rho d = (100 \times \#\#\#\#\#)/(100 + 18.3)$ = 0.0 lbs/ft^3
Note: Wet Density from ASTM D 1556 (ρ_m) takes presidence over ASTM D 6938 (ρ_m)

Percent Compaction = ρ_d / $\gamma_d max \times 100$
0.0 / 114.6 x 100 = 0.0 %

Maximum Dry Density ($\gamma_d max$) **114.6** (lbs/ft^3)
Optimum Moisture (w_{opt}) **15.2** (%)
Required Moisture: **12.2** % to **18.2** %
Required Percent Compaction: **90.0** (%)

Comments:
Microwave oven power setting on HIGH. Initial time setting of 3 minutes and subsequent incremental drying periods of 1 minute until a change of 0.1 % or less of the initial wet mass of the soil.

TEST RESULTS:
~~X~~ Pass — Date: **8/15/11**
X Failed Moisture
Failed Compaction — Time: **1030**
By: **Thomas S Nett** (print) / Thomas S Nett (signature)

[signature] 8-25-11
QA/QC APPROVAL — DATE

Density Testing
DOE-EM/GJRAC1783
Rev. 0

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ENERGYSOLUTIONS

FIELD DENSITY TEST

PROJECT: Moab UMTRA Project — OTHER ____

LIFT IDENTIFICATION: UWR06110812-00 — DATE: 8/19/2011

TEST ID NUMBER(S): # 3

TEST LOCATION: P1 — TEST METHOD: X D1556 X D6938

ASTM D6938 (DENSITY DETERMINATION)

Make/Model Troxler 3430 Gauge Serial # 27523

Last Calibration Date: 7/1/11

Daily Standard Counts: *On-Cell Standard*

Density 2907 Moisture 670

Method A (Direct Transmission)

Depth Setting 8 *(inches)* Count Time 1 *(minutes)*

Moisture Count 181 Density Count 2230

Wet Density (ρ_m) 116.0 (lbs/ft^3) Dry Density 99.9 (lbs/ft^3)

Moisture Density 15.5 (lbs/ft^3) Moisture Fraction 14.9 (%)

ASTM D1556 (DENSITY DETERMINATION)

Testing Apparatus 12 Calibrated Vol. (lbs/ft^3) 0.04079

Bulk Density of sand (ρ_1) 1.57 g/cm^3 97.8 lbs/ft^3

Mass of Sand to Fill Cone & Plate (M_2) 1809.7 g

Mass of bottle & cone before filling cone, plate & hole	7160.6	g
Mass of bottle & cone after filling cone, plate & hole	2994.0	g
Mass of sand to fill cone, plate, & hole (M_1)	4166.6	g
Mass of sand to fill hole	2356.9	g
Mass of wet soil & container	2834.9	g
Mass of container	12.1	g
Mass of wet soil (M_3)	2822.8	g

Test Hole Volume
$V = (M_1 - M_2)/\rho_1$ 1505 cm^3

Dry Mass of soil
$M_4 = 100\, M_3 / (w + 100)$ 2416.4 g

Wet Denisty
$\rho_m = (M_3 / V) \times 62.43$ 117.1 lbs/ft^3

Dry Denisty
$\rho_d = M_4 / V$ 1.6 g/cm^3

Dry Unit Weight
$\gamma_d = \rho_d \times 62.43$ 100.3 lbs/ft^3

MOISTURE DETERMINATION

ASTM D4643

Container ID D-2

Mass of container & wet specimen (M_{cms})	367.2	g
Mass of container & dry specimen (M_{cds})	337.9	g
Mass of water (M_w) $M_w = M_{cms} - M_{cds}$	29.3	g
Mass of container (M_c)	163.7	g
Mass of dry specimen (M_s) $M_s = M_{cds} - M_c$	174.2	g
Moisture content (w) $w = (M_w / M_s) \times 100$	16.8	%

Soil Description: Light brown very fine to medium, well graded, subround sand with clay.

Proctor ID: RRM # 239
Standard Proctor (ASTM D698)

Dry Density $(\rho_d) = (100 \times \rho_m)/(100 + w)$

$\rho d = (100 \times 117.1) / (100 + 16.8) = 100.3\ lbs/ft^3$

Note: Wet Density from ASTM D 1556 (ρ_m) takes precedence over ASTM D 6938 (ρ_m)

Percent Compaction = $\rho_d / \gamma_d max \times 100$

$100.3 / 110.3 \times 100 = 90.9$ %

Maximum Dry Density ($\gamma_d max$) 110.3 (lbs/ft^3)

Optimum Moisture (w_{opt}) 14.2 (%)

Required Moisture: 11.2 % to 17.2 %

Required Percent Compaction: 90.0 (%)

Comments:
Off Cell Standard: DS- 2184 MS- 664. Microwave oven power setting on HIGH. Initial time setting of 3 minutes and subsequent incremental drying periods of 1 minute until a change of 0.1 % or less of the initial wet mass of the soil.

TEST RESULTS:
x Pass — Date: 8/19/11
Failed Moisture
~~x Failed Compaction~~ CJ 11-19-11 — Time: 0930

By: Mitch Hogan (print) / [signature] (signature)

[signature] 8-25-11
QA/QC APPROVAL — DATE

Density Testing
DOE-EM/GJRAC1783
Rev. 0

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Top Of Waste Buy Off Survey

Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in Inches
1	6794630.1	2122350.0	4975.95	4975.90	0.0	0.6
2	6794630.1	2122400.0	4975.98	4975.93	0.1	0.6
3	6794630.4	2122450.4	4975.99	4975.97	0.0	0.3
4	6794680.4	2122450.3	4977.32	4977.23	0.1	1.1
5	6794680.3	2122400.0	4977.22	4977.20	0.0	0.3
6	6794680.0	2122350.4	4977.18	4977.16	0.0	0.2
7	6794730.5	2122350.1	4978.48	4978.44	0.0	0.5
8	6794730.6	2122300.6	4978.48	4978.41	0.1	0.7
9	6794730.4	2122250.1	4978.40	4978.38	0.0	0.3
10	6794730.1	2122400.4	4978.46	4978.46	0.0	0.0
11	6794730.6	2122450.6	4978.52	4978.50	0.0	0.2
12	6794780.9	2122450.1	4979.85	4979.77	0.1	1.0
13	6794780.1	2122400.4	4979.81	4979.72	0.1	1.1
14	6794780.9	2122350.1	4979.76	4979.71	0.0	0.6
15	6794780.2	2122300.5	4979.70	4979.67	0.0	0.4
16	6794781.0	2122250.8	4979.68	4979.66	0.0	0.3
17	6794830.9	2122250.1	4980.93	4980.92	0.0	0.1
18	6794830.1	2122300.9	4981.01	4980.93	0.1	1.0
19	6794830.5	2122350.6	4981.06	4980.97	0.1	1.2
20	6794830.8	2122400.7	4981.06	4981.00	0.1	0.7
21	6794830.7	2122450.1	4981.11	4981.03	0.1	0.9
22	6794880.3	2122450.5	4982.35	4982.28	0.1	0.8
23	6794880.8	2122400.7	4982.32	4982.27	0.1	0.6
24	6794880.6	2122350.7	4982.29	4982.23	0.1	0.7
25	6794880.1	2122300.6	4982.22	4982.19	0.0	0.3
26	6794930.1	2122350.9	4983.53	4983.48	0.1	0.6
27	6794930.5	2122400.5	4983.60	4983.52	0.1	0.9
28	6794980.4	2122400.7	4984.86	4984.78	0.1	0.9
29	6794980.4	2122350.6	4984.81	4984.76	0.1	0.7
30	6795030.9	2122350.5	4986.10	4986.03	0.1	0.8
31	6795030.4	2122300.9	4985.99	4985.99	0.0	0.0
32	6795030.7	2122400.1	4986.12	4986.05	0.1	0.8
33	6795080.4	2122401.0	4987.41	4987.31	0.1	1.2
34	6795081.0	2122350.6	4987.36	4987.30	0.1	0.7
35	6795080.6	2122300.7	4987.33	4987.26	0.1	0.8
36	6795080.3	2122251.0	4987.30	4987.22	0.1	1.0
37	6795080.2	2122200.8	4987.25	4987.19	0.1	0.7
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Date:	6/29/2010	QC signature: David Stewart/			Reviewed by: Beacham Bosh/	

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A2. RRM
Top of Waste Buyoff Surveys

CRJ 000744

Top Of Waste Buy Off Survey

Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in Inches
1	6795100	2122400	4987.88	4987.80	0.1	0.9
2	6795100	2122350	4987.89	4987.78	0.1	1.3
3	6795100	2122300	4987.83	4987.75	0.1	1.0
4	6795100	2122250	4987.81	4987.72	0.1	1.1
5	6795100	2122199	4987.75	4987.69	0.1	0.7
6	6795100	2122150	4987.79	4987.66	0.1	1.5
7	6795150	2122150	4988.94	4988.92	0.0	0.2
8	6795150	2122200	4989.00	4988.95	0.0	0.6
9	6795150	2122250	4989.06	4988.98	0.1	1.0
10	6795150	2122300	4989.03	4989.01	0.0	0.3
11	6795150	2122350	4989.14	4989.04	0.1	1.2
12	6795200	2122350	4990.32	4990.30	0.0	0.2
13	6795200	2122300	4990.34	4990.27	0.1	0.8
14	6795200	2122250	4990.25	4990.25	0.0	0.1
15	6795200	2122200	4990.28	4990.22	0.1	0.6
16	6795200	2122150	4990.29	4990.19	0.1	1.2
17	6795250	2122150	4991.52	4991.45	0.1	0.9
18	6795250	2122200	4991.53	4991.48	0.1	0.6
19	6795250	2122250	4991.53	4991.51	0.0	0.2
20	6795250	2122300	4991.67	4991.54	0.1	1.5
21	6795250	2122350	4991.56	4991.57	0.0	0.0
22	6795250	2122350	4991.57	4991.57	0.0	0.0
23	6795300	2122350	4992.87	4992.83	0.0	0.5
24	6795300	2122300	4992.84	4992.80	0.0	0.5
25	6795300	2122250	4992.89	4992.77	0.1	1.5
26	6795300	2122200	4992.77	4992.74	0.0	0.3
27	6795300	2122150	4992.77	4992.72	0.1	0.6
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Date: 7/14/2010 QC signature: Beachem Bosh Reviewed by: Nate Abrams

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LV 8/18/10

A2. RRM
Top of Waste Buyoff Surveys

CRJ 000743

Top Of Waste Buy Off Survey

Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
1385	6795050	2122150	4986.532	4986.397	0.1	1.6
1364	6795100	2122150	4987.704	4987.661	0.0	0.5
1343	6795150	2122150	4988.969	4988.924	0.0	0.5
1322	6795200	2122150	4990.235	4990.188	0.0	0.6
1301	6795250	2122150	4991.509	4991.451	0.1	0.7
1280	6795300	2122150	4992.763	4992.715	0.0	0.6
1259	6795350	2122150	4994.017	4993.978	0.0	0.5
1238	6795400	2122150	4994.832	4994.811	0.0	0.3
1218	6795450	2122150	4993.938	4993.842	0.1	1.2
1198	6795500	2122150	4992.921	4992.873	0.0	0.6
1178	6795550	2122150	4991.997	4991.904	0.1	1.1
1158	6795600	2122150	4990.955	4990.935	0.0	0.2
1138	6795650	2122150	4990.041	4989.966	0.1	0.9
1118	6795700	2122150	4989.038	4988.997	0.0	0.5
1098	6795750	2122150	4988.039	4988.028	0.0	0.1
1078	6795800	2122150	4987.157	4987.059	0.1	1.2
1058	6795850	2122150	4986.117	4986.090	0.0	0.3
1057	6795850	2122200	4986.452	4986.400	0.1	0.6
1077	6795800	2122200	4987.472	4987.369	0.1	1.2
1097	6795750	2122200	4988.380	4988.338	0.0	0.5
1117	6795700	2122200	4989.314	4989.307	0.0	0.1
1137	6795650	2122200	4990.403	4990.275	0.1	1.5
1157	6795600	2122200	4991.329	4991.244	0.1	1.0
1177	6795550	2122200	4992.330	4992.213	0.1	1.4
1197	6795500	2122200	4993.259	4993.182	0.1	0.9
1217	6795450	2122200	4994.204	4994.151	0.1	0.6
1237	6795400	2122200	4995.238	4995.120	0.1	1.4
1258	6795350	2122200	4994.029	4994.007	0.0	0.3
1279	6795300	2122200	4992.844	4992.743	0.1	1.2
1300	6795250	2122200	4991.527	4991.480	0.0	0.6
1321	6795200	2122200	4990.282	4990.217	0.1	0.8
1342	6795150	2122200	4988.956	4988.953	0.0	0.0
1363	6795100	2122200	4987.785	4987.690	0.1	1.1
1341	6795150	2122250	4989.050	4988.982	0.1	0.8
1320	6795200	2122250	4990.266	4990.245	0.0	0.3
1299	6795250	2122250	4991.539	4991.509	0.0	0.4
1278	6795300	2122250	4992.844	4992.772	0.1	0.9
1257	6795350	2122250	4994.077	4994.035	0.0	0.5
1236	6795400	2122250	4995.378	4995.299	0.1	0.9
1216	6795450	2122250	4994.550	4994.461	0.1	1.1
1196	6795500	2122250	4993.508	4993.492	0.0	0.2
1176	6795550	2122250	4992.608	4992.523	0.1	1.0
1156	6795600	2122250	4991.586	4991.554	0.0	0.4
1136	6795650	2122250	4990.596	4990.585	0.0	0.1
1116	6795700	2122250	4989.623	4989.616	0.0	0.1
1096	6795750	2122250	4988.738	4988.647	0.1	1.1
1076	6795800	2122250	4987.718	4987.678	0.0	0.5
1056	6795850	2122250	4986.708	4986.709	0.0	0.0
1055	6795850	2122300	4987.111	4987.018	0.1	1.1
1075	6795800	2122300	4988.061	4987.987	0.1	0.9
1095	6795750	2122300	4988.957	4988.956	0.0	0.0
1115	6795700	2122300	4989.967	4989.925	0.0	0.5
1135	6795650	2122300	4990.945	4990.894	0.1	0.6
1155	6795600	2122300	4991.885	4991.863	0.0	0.3
1175	6795550	2122300	4992.895	4992.832	0.1	0.8
1195	6795500	2122300	4993.874	4993.801	0.1	0.9

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8/13/10

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A2. RRM
Top of Waste Buyoff Surveys

1215	6795450	2122300	4994.822	4994.770	0.1	0.6
1235	6795400	2122300	4995.327	4995.328	0.0	0.0
1256	6795350	2122300	4994.105	4994.064	0.0	0.5
1277	6795300	2122300	4992.839	4992.801	0.0	0.5
1298	6795250	2122300	4991.556	4991.537	0.0	0.2
1319	6795200	2122300	4990.368	4990.274	0.1	1.1
1340	6795150	2122300	4989.108	4989.010	0.1	1.2
1339	6795150	2122350	4989.084	4989.039	0.0	0.5
1318	6795200	2122350	4990.304	4990.303	0.0	0.0
1297	6795250	2122350	4991.578	4991.566	0.0	0.1
1276	6795300	2122350	4992.845	4992.830	0.0	0.2
1255	6795350	2122350	4994.117	4994.093	0.0	0.3
1234	6795400	2122350	4995.408	4995.356	0.1	0.6
1214	6795450	2122350	4995.174	4995.079	0.1	1.1
1194	6795500	2122350	4994.149	4994.110	0.0	0.5
1174	6795550	2122350	4993.183	4993.142	0.0	0.5
1154	6795600	2122350	4992.236	4992.173	0.1	0.8
1134	6795650	2122350	4991.294	4991.204	0.1	1.1
1114	6795700	2122350	4990.274	4990.235	0.0	0.5
1094	6795750	2122350	4989.274	4989.266	0.0	0.1
1074	6795800	2122350	4988.387	4988.297	0.1	1.1
1054	6795850	2122350	4987.382	4987.328	0.1	0.6
Date:	7/30/2010	QC signature: Dave Stewart			Reviewed by: Nate Abrams	

NA 8-6-10

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Pg 2 of 2

A2. RRM
Top of Waste Buyoff Surveys

CRJ 000742

Top Of Waste Buy Off Survey

Area ID:		UWE01		Total ft²:		55,348 ft²
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in Inches
1014	6795950	2122700	4987.6	4987.6	0.0	0.0
1015	6795950	2122650	4987.3	4987.3	0.0	0.0
1016	6795950	2122600	4987.0	4987.0	0.0	0.0
1017	6795950	2122550	4986.7	4986.7	0.0	0.0
1018	6795950	2122500	4986.4	4986.4	0.0	0.0
1019	6795950	2122450	4986.1	4986.1	0.0	0.0
1020	6795950	2122400	4985.8	4985.8	0.0	0.0
1034	6795900	2122400	4986.7	4986.7	0.0	0.0
1033	6795900	2122450	4987.0	4987.0	0.0	0.0
1032	6795900	2122500	4987.3	4987.3	0.0	0.0
1031	6795900	2122550	4987.6	4987.6	0.0	0.0
1030	6795900	2122600	4987.9	4987.9	0.0	0.0
1029	6795900	2122650	4988.2	4988.2	0.0	0.0
1028	6795900	2122700	4988.5	4988.5	0.0	0.0
1047	6795850	2122700	4989.6	4989.6	0.0	0.0
1048	6795850	2122650	4989.3	4989.3	0.0	0.0
1049	6795850	2122600	4988.9	4988.9	0.0	0.0
1050	6795850	2122550	4988.6	4988.6	0.0	0.0
1051	6795850	2122500	4988.3	4988.3	0.0	0.0
1052	6795850	2122450	4988.0	4988.0	0.0	0.0
1053	6795850	2122400	4987.7	4987.7	0.0	0.0
1073	6795800	2122400	4988.7	4988.7	0.0	0.0
1093	6795750	2122400	4989.6	4989.6	0.0	0.0
1072	6795800	2122450	4988.5	4988.5	0.0	0.0
1071	6795800	2122500	4989.4	4989.4	0.0	0.0
1070	6795800	2122550	4989.6	4989.6	0.0	0.0
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					0.0	0.0
Date:	9/20/2010	Approved by: Beachem Bosh /			Reviewed by:	

KJT 9-24-10

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A2. RRM
Top of Waste Buyoff Surveys

CRJ 000617

TOW Buy Off Survey

		Buy off ID:	UWH08		Date:	11/18/2010
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
~1067	6795799.9	2122700.0	4990.6	4990.5	0.1	0.9
~1068	6795800.0	2122649.9	4990.2	4990.2	0.0	0.2
~1069	6795800.1	2122600.0	4989.9	4989.8	0.0	0.1
~1070	6795800.0	2122550.0	4989.6	4989.5	0.0	0.5
~1071	6795800.0	2122500.1	4989.2	4989.2	0.0	0.0
~1072	6795799.9	2122450.0	4988.9	4988.9	0.0	0.1
~1073	6795800.1	2122400.0	4988.6	4988.6	0.0	0.0
~1087	6795750.0	2122700.0	4991.4	4991.4	0.0	0.0
~1088	6795750.0	2122649.9	4991.2	4991.1	0.1	0.9
~1089	6795750.0	2122600.0	4990.8	4990.8	0.0	0.0
~1090	6795749.9	2122550.0	4990.5	4990.5	0.0	0.2
~1091	6795750.0	2122500.0	4990.2	4990.2	0.0	0.4
~1092	6795750.0	2122450.0	4989.9	4989.9	0.0	0.0
~1093	6795750.0	2122400.0	4989.6	4989.6	0.0	0.0
~1107	6795700.0	2122700.1	4992.6	4992.4	0.1	1.3
~1108	6795700.0	2122650.1	4992.2	4992.1	0.1	1.4
~1109	6795700.0	2122600.0	4991.9	4991.8	0.1	1.6
~1110	6795700.0	2122549.9	4991.5	4991.5	0.0	0.4
~1111	6795700.0	2122500.0	4991.2	4991.2	0.0	0.3
~1112	6795700.0	2122449.9	4991.0	4990.9	0.1	1.3
~1113	6795700.0	2122399.9	4990.6	4990.5	0.0	0.2
~1127	6795650.1	2122700.0	4993.4	4993.4	0.0	0.0
~1128	6795650.0	2122650.0	4993.2	4993.1	0.1	1.4
~1129	6795650.0	2122600.0	4992.8	4992.8	0.0	0.4
~1130	6795650.0	2122550.0	4992.4	4992.4	0.0	0.0
~1131	6795650.0	2122500.0	4992.3	4992.1	0.2	1.9
~1132	6795649.9	2122450.0	4991.8	4991.8	0.0	0.0
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					0.0	0.0
Comments:						
Approval Date:	11/18/2010		Total Square Feet:		43,772 ft²	
QC Signature: Mitch Hogan /			Reviewed By: Beachem Bosh /			

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A2. RRM
Top of Waste Buyoff Surveys

CRJ 000657

TOW Buy Off Survey

Buy off ID: UWF05			North West Corner: 6795700 N. 2122400 E.		Date:	11/23/2010
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in Inches
-1133	6795650	2122400	4991.5	4991.5	0.0	0.4
					0.0	0.0
					0.0	0.0
					0.0	0.0
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					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	0.0
					0.0	0.0
Comments:						
	Approval Date:	11/23/2010		Total Square Feet:		15,871
QC Signature: Mitch Hogan/				Reviewed By: Beachem Bosh /		

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11/29/10

43.8.3.1
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CRJ 000554

Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWI12		Date:	12/11/2010
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in Inches
1149	6795600	2122600	4993.8	4993.7	0.1	0.8
1150	6795600	2122550	4993.4	4993.4	0.0	0.3
1151	6795600	2122500	4993.1	4993.1	0.0	0.6
1152	6795600	2122450	4992.8	4992.8	0.0	0.6
1153	6795600	2122400	4992.6	4992.5	0.1	0.6
1173	6795550	2122400	4993.5	4993.5	0.0	0.5
1172	6795550	2122450	4993.8	4993.8	0.0	0.6
1171	6795550	2122500	4994.1	4994.1	0.0	0.3
1170	6795550	2122550	4994.4	4994.4	0.1	0.6
1169	6795550	2122600	4994.7	4994.7	0.0	0.2
1189	6795500	2122600	4995.7	4995.7	0.0	0.5
1190	6795500	2122550	4995.4	4995.3	0.0	0.5
1191	6795500	2122500	4995.1	4995.0	0.0	0.6
1192	6795500	2122450	4994.8	4994.7	0.0	0.6
1193	6795500	2122400	4994.5	4994.4	0.1	0.7
1210	6795450	2122550	4996.4	4996.3	0.1	0.7
1211	6795450	2122500	4996.1	4996.0	0.1	0.7
1212	6795450	2122450	4995.7	4995.7	0.0	0.4
1213	6795450	2122400	4995.5	4995.4	0.1	0.9
1233	6795400	2122400	4995.4	4995.4	0.0	0.3
1232	6795400	2122450	4995.5	4995.4	0.0	0.5
1231	6795400	2122500	4995.5	4995.4	0.1	0.8
1230	6795400	2122550	4995.5	4995.5	0.0	0.3
1251	6795350	2122550	4994.2	4994.2	0.0	0.3
1252	6795350	2122500	4994.2	4994.2	0.0	0.6
1253	6795350	2122450	4994.2	4994.2	0.0	0.5
1254	6795350	2122400	4994.1	4994.1	0.0	0.3
1275	6795300	2122400	4992.9	4992.9	0.1	0.6
1274	6795300	2122450	4993.0	4992.9	0.1	1.2
1273	6795300	2122500	4992.9	4992.9	0.0	0.4
1272	6795300	2122550	4993.0	4992.9	0.0	0.4
1293	6795250	2122550	4991.7	4991.7	0.0	0.2
1294	6795250	2122500	4991.7	4991.7	0.0	0.2
1295	6795250	2122450	4991.6	4991.6	0.0	0.2
1296	6795250	2122400	4991.6	4991.6	0.0	0.5
1317	6795200	2122400	4990.4	4990.3	0.0	0.3
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			N/A 12-11-10 KE		0.0	0.0
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					0.0	0.0

Comments: N/A 12-11-10 KE

Approval Date: 12/11/2010 | Total Square Feet: 89,977

North West Corner: 6795620 N 2122358 E

QC Signature: Kyler Edgehouse [signature] Reviewed By: Mitch Hogan [signature]

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CRJ 000762

Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWJ21		Date:	2/28/2011
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
1723	6794200	2122600	4965.2	4965.2	0.0	0.4
1722	6794200	2122650	4965.2	4965.2	0.0	0.0
1707	6794250	2122650	4966.5	4966.5	0.0	0.0
1708	6794250	2122600	4966.5	4966.4	0.0	0.4
1689	6794300	2122600	4967.7	4967.7	0.0	0.1
1688	6794300	2122650	4967.8	4967.7	0.0	0.3
1668	6794350	2122650	4969.0	4969.0	0.0	0.3
1669	6794350	2122600	4969.0	4969.0	0.0	0.6
1670	6794350	2122550	4969.1	4968.9	0.1	1.5
1649	6794400	2122550	4970.3	4970.2	0.1	1.6
1648	6794400	2122600	4970.2	4970.2	0.0	0.2
1647	6794400	2122650	4970.3	4970.3	0.1	0.8
1627	6794450	2122600	4971.6	4971.5	0.1	1.2
1628	6794450	2122650	4971.6	4971.5	0.1	1.6
1607	6794500	2122650	4972.8	4972.7	0.1	1.1
1608	6794500	2122500	4972.8	4972.7	0.1	1.2
1606	6794500	2122600	4972.9	4972.8	0.1	1.2
1586	6794550	2122600	4974.0	4974.0	0.0	0.1
1587	6794550	2122550	4974.0	4974.0	0.1	0.6
1588	6794550	2122500	4974.1	4974.0	0.1	1.5
1567	6794600	2122500	4975.3	4975.2	0.1	1.5
1566	6794600	2122550	4975.3	4975.3	0.0	0.2
1565	6794600	2122600	4975.3	4975.3	0.0	0.0
1544	6794650	2122600	4976.6	4976.5	0.0	0.3
1545	6794650	2122550	4976.6	4976.5	0.1	1.5
1546	6794650	2122500	4976.6	4976.5	0.1	1.8
1547	6794650	2122450	4976.5	4976.5	0.0	0.4
1526	6794700	2122450	4977.7	4977.7	0.0	0.2
1525	6794700	2122500	4977.9	4977.8	0.1	1.2
1524	6794700	2122550	4977.9	4977.8	0.1	1.0
1523	6794700	2122600	4977.8	4977.8	0.0	0.2
1502	6794750	2122600	4979.1	4979.1	0.0	0.1
1503	6794750	2122550	4979.0	4979.0	0.0	0.1
1504	6794750	2122500	4979.0	4979.0	0.0	0.4
1505	6794750	2122450	4979.0	4979.0	0.0	0.1
1503	6794750	2122550	4979.1	4979.0	0.0	0.3
1481	6794800	2122600	4980.4	4980.3	0.0	0.5
1482	6794800	2122550	4980.4	4980.3	0.1	1.1
1483	6794800	2122500	4980.3	4980.3	0.0	0.3
1484	6794800	2122450	4980.3	4980.3	0.0	0.1
1463	6794850	2122450	4981.5	4981.5	0.0	0.1
1462	6794850	2122500	4981.7	4981.6	0.1	1.6
1462	6794850	2122500	4981.7	4981.6	0.1	1.6
1461	6794850	2122550	4981.7	4981.6	0.1	1.5
1460	6794850	2122600	4981.6	4981.6	0.0	0.0
1440	6794900	2122550	4983.0	4982.9	0.1	1.7
1441	6794900	2122500	4982.8	4982.8	0.0	0.2
1442	6794900	2122450	4982.8	4982.8	0.0	0.2
1421	6794950	2122450	4984.1	4984.0	0.0	0.2
1420	6794950	2122500	4984.1	4984.1	0.0	0.1
1419	6794950	2122550	4984.2	4984.1	0.1	1.5
1398	6795000	2122550	4985.4	4985.4	0.0	0.0
1399	6795000	2122500	4985.3	4985.3	0.0	0.2
1400	6795000	2122450	4985.4	4985.3	0.1	1.3
1379	6795050	2122450	4986.6	4986.6	0.0	0.5
1378	6795050	2122500	4986.6	4986.6	0.0	0.1
1377	6795050	2122550	4986.7	4986.6	0.0	0.3
1356	6795100	2122550	4987.9	4987.9	0.0	0.6
1357	6795100	2122500	4987.9	4987.9	0.0	0.6
1358	6795100	2122450	4987.8	4987.8	0.0	0.1

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1337	6795150	2122450	4989.2	4989.1	0.1	1.3
1338	6795150	2122400	4989.1	4989.1	0.0	0.5
1336	6795150	2122500	4989.1	4989.1	0.0	0.3
1335	6795150	2122550	4989.2	4989.2	0.0	0.5
1314	6795200	2122550	4990.4	4990.4	0.0	0.3
1315	6795200	2122500	4990.4	4990.4	0.1	0.7
1316	6795200	2122450	4990.4	4990.4	0.1	0.9
1317	6795200	2122400	4990.4	4990.3	0.0	0.3
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Comments:	This survey include lift areas UWI24 and UWK28 see attached for buy off area.					
Approval Date:	2/28/2011			Total Square Feet:	150,698	

North West Corner: 6795200 N 2122393 E

QC Signature: Kyler Edgehouse Reviewed By: Beachem Bosh

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CRJ 000763

Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWM12		Date:	3/3/2011
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
1272	6795300	2122550	4993.1	4992.9	0.2	2.0
1251	6795350	2122550	4994.2	4994.2	0.0	0.3
1250	6795350	2122600	4994.4	4994.2	0.2	1.8
1249	6795350	2122650	4994.4	4994.3	0.1	1.5
1248	6795350	2122700	4994.4	4994.3	0.1	0.7
1247	6795350	2122750	4994.3	4994.3	0.0	0.3
1226	6795400	2122750	4995.6	4995.6	0.0	0.5
1227	6795400	2122700	4995.6	4995.6	0.0	0.3
1228	6795400	2122650	4995.7	4995.5	0.1	1.5
1229	6795400	2122600	4995.6	4995.5	0.1	1.4
1230	6795400	2122550	4995.5	4995.5	0.1	0.7
1210	6795450	2122550	4996.4	4996.3	0.0	0.5
1209	6795450	2122600	4996.7	4996.6	0.1	0.7
1208	6795450	2122650	4996.8	4996.8	0.0	0.5
1207	6795450	2122700	4996.9	4996.8	0.0	0.6
1187	6795500	2122700	4996.3	4996.3	0.0	0.3
1188	6795500	2122650	4996.0	4996.0	0.1	0.9
1189	6795500	2122600	4995.7	4995.7	0.1	0.9
1190	6795500	2122550	4995.4	4995.3	0.0	0.5
1170	6795550	2122550	4994.4	4994.4	0.0	0.2
1169	6795550	2122600	4994.7	4994.7	0.0	0.3
1168	6795550	2122650	4995.0	4995.0	0.1	0.6
1167	6795550	2122700	4995.4	4995.3	0.1	0.9
1147	6795600	2122700	4994.5	4994.3	0.1	1.7
1148	6795600	2122650	4994.0	4994.0	0.0	0.0
1149	6795600	2122600	4993.7	4993.7	0.0	0.2
1150	6795600	2122550	4993.5	4993.4	0.1	0.7
1130	6795650	2122550	4992.5	4992.4	0.0	0.6
1129	6795650	2122600	4992.8	4992.8	0.1	0.6
1128	6795650	2122650	4993.2	4993.1	0.1	1.4
1127	6795650	2122700	4993.4	4993.4	0.0	0.6
					0.0	0.0
					0.0	0.0
		N/	A		0.0	0.0
					0.0	0.0
					0.0	0.0
					0.0	0.0

Comments: N/A North West Corner : 6745663 N 2122515 E

Approval Date: 3/3/2011 Total Square Feet: 68,875 ft²

QC Signature: Beachem Bosh [signature] Reviewed By: Nathan Abrams [signature]

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04/14/11

CRJ 000773

Top Of Waste Buy Off Survey

Area ID: UWJ12 Total ft²: 188,257

Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
1247	6795350	2122750	4994.4	4994.3	0.1	1.0
1248	6795350	2122700	4994.4	4994.3	0.1	1.6
1249	6795300	2122650	4994.3	4994.3	0.1	0.9
1250	6795350	2122600	4994.4	4994.2	0.2	1.8
1271	6795300	2122600	4993.0	4993.0	0.0	0.5
1270	6795300	2122650	4993.0	4993.0	0.0	0.4
1269	6795300	2122700	4993.6	4993.6	0.0	0.2
1290	6795250	2122700	4991.9	4991.8	0.1	1.2
1291	6795250	2122650	4991.7	4991.7	0.0	0.1
1292	6795250	2122600	4991.8	4991.7	0.1	1.6
1293	6795250	2122550	4991.7	4991.7	0.1	0.7
1314	6795200	2122550	4990.4	4990.4	0.0	0.1
1313	6795200	2122600	4990.6	4990.4	0.1	1.4
1312	6795200	2122650	4990.0	4990.5	0.1	0.9
1311	6795200	2122700	4990.6	4990.5	0.0	0.4
1334	6795150	2122600	4989.2	4989.2	0.0	0.1
1333	6795150	2122550	4989.2	4989.2	0.1	1.0
1356	6795100	2122550	4987.9	4987.9	0.0	0.3
1355	6795100	2122600	4988.0	4987.9	0.1	1.3
1354	6795100	2122650	4988.1	4987.9	0.1	1.5
1353	6795100	2122700	4988.1	4988.0	0.1	1.7
1374	6795050	2122700	4986.8	4986.7	0.1	0.7
1375	6795050	2122650	4986.8	4986.7	0.1	1.5
1376	6795050	2122600	4986.7	4986.7	0.0	0.0
1377	6795050	2122550	4986.7	4986.6	0.1	0.9
1397	6795000	2122600	4985.4	4985.4	0.0	0.4
1396	6795000	2122650	4985.5	4985.4	0.1	1.4
1395	6795000	2122700	4985.6	4985.4	0.1	1.6
1416	6794950	2122700	4984.3	4984.2	0.1	1.4
1417	6794950	2122650	4984.2	4984.2	0.0	0.4
1418	6794950	2122600	4984.2	4984.1	0.1	0.8
1435	6794900	2122600	4983.0	4982.9	0.1	1.3
1436	6794900	2122650	4983.0	4982.9	0.1	1.2
1437	6794900	2122700	4983.1	4982.9	0.1	1.7
1438	6794900	2122750	4983.1	4982.9	0.2	1.5
1457	6794850	2122750	4981.8	4981.7	0.1	1.6
1458	6794850	2122700	4981.8	4981.7	0.1	1.4
1459	6794850	2122600	4981.7	4981.6	0.1	1.6
1481	6794800	2122600	4980.4	4980.3	0.0	0.3
1502	6794750	2122600	4979.2	4979.1	0.1	1.0
1333	6795150	2122650	4989.4	4989.2	0.1	1.7
1332	6795150	2122700	4989.3	4989.2	0.1	1.3
1489	6794850	2122650	4981.7	4981.6	0.1	1.0
1480	6794800	2122650	4980.4	4980.4	0.1	1.0
1479	6794800	2122700	4980.4	4980.4	0.0	0.4
1478	6794800	2122750	4980.4	4980.4	0.0	0.3
1499	6794750	2122750	4979.3	4979.2	0.1	1.7
1500	6794750	2122700	4979.3	4979.1	0.1	1.5
1501	6794750	2122650	4979.1	4979.1	0.0	0.0
1501	6794700	2122650	4979.1	4979.1	0.0	0.2
1522	6794700	2122650	4977.9	4977.8	0.0	0.2
1521	6794700	2122700	4978.0	4977.9	0.2	1.9
1520	6794700	2122750	4978.0	4977.9	0.1	1.0
1541	6794650	2122750	4976.8	4976.6	0.1	1.6
1541	6794650	2122750	4976.8	4976.6	0.1	1.7
1542	6794650	2122700	4976.6	4976.6	0.0	0.4
1543	6794650	2122650	4976.6	4976.6	0.0	0.0
1564	6794600	2122650	4975.4	4975.3	0.0	0.6
1563	6794600	2122700	4975.4	4975.3	0.1	0.7
1562	6794600	2122750	4975.5	4975.4	0.1	1.4
1584	6794550	2122700	4974.2	4974.1	0.1	1.2
1585	6794550	2122650	4974.1	4974.0	0.1	1.1
1605	6794500	2122650	4972.9	4972.8	0.1	1.4
1604	6794500	2122700	4972.8	4972.8	0.0	0.3
1625	6794450	2122700	4971.6	4971.5	0.0	0.4
1626	6794450	2122650	4971.7	4971.5	0.1	1.6
1647	6794400	2122650	4970.4	4970.3	0.1	1.3
1646	6794400	2122700	4970.4	4970.3	0.1	1.1
1667	6794350	2122700	4969.0	4969.0	0.0	0.2
1668	6794350	2122650	4969.1	4969.0	0.1	1.1
1687	6794300	2122700	4967.9	4967.8	0.1	1.6
1686	6794300	2122750	4967.9	4967.8	0.1	1.6
1705	6794250	2122750	4966.6	4966.5	0.1	1.3
1706	6794250	2122700	4966.6	4966.5	0.1	0.8
1721	6794200	2122700	4965.2	4965.2	0.0	0.1
1720	6794200	2122750	4965.3	4965.3	0.0	0.2
					0.0	0.0
					0.0	0.0
					0.0	0.0

Date: 4/8/2011 Approved by: Beachem Bosh / Reviewed by: Jared Knight /

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A2. RRM
Top of Waste Buyoff Surveys

ENERGYSOLUTIONS

Environmental Management • Grand Junction Office
MOAB
UMTRA Project
CRJ 000943

Top of Waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 08-04-2011

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

Lift Area	Lift Area
UWS31	UWR12 7-21-11

Approver Name/Title	Signature	Sign Date
Beachem Bosh / QA/QC Representative	[signature]	8-4-2011
Mitch Hogan / QA/QC Representative	[signature]	8-4-2011
Brent Anderson / Construction Manager	[signature]	8-4-2011
Comments		
UWS31 = 119,665 ft²		
UWR12 = 85,281 ft²		
Buy off includes two lift area's		
Area will be scarified prior to interim placement.		

OP-F-013
Rev 0, August 2010

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A2. RRM
Top of Waste Buyoff Surveys

Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWS31		Date:	8/3/2011
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
~1537	6794650	2122950	4976.8	4976.7	0.0	0.5
~1538	6794650	2122900	4976.8	4976.7	0.1	1.6
~1539	6794650	2122850	4976.8	4976.7	0.1	1.4
~1540	6794650	2122800	4976.8	4976.7	0.1	1.4
~1541	6794650	2122750	4976.8	4976.6	0.2	1.8
~1558	6794600	2122950	4975.6	4975.5	0.1	1.3
~1559	6794600	2122900	4975.6	4975.5	0.1	1.3
~1560	6794600	2122850	4975.5	4975.4	0.1	0.7
~1561	6794600	2122800	4975.4	4975.4	0.0	0.2
~1562	6794600	2122750	4975.5	4975.4	0.1	1.4
~1579	6794550	2122950	4974.2	4974.2	0.0	0.3
~1580	6794550	2122900	4974.2	4974.2	0.1	0.7
~1581	6794550	2122850	4974.2	4974.2	0.0	0.0
~1582	6794550	2122800	4974.3	4974.1	0.1	1.6
~1583	6794550	2122750	4974.3	4974.1	0.2	1.9
~1599	6794500	2122950	4973.1	4973.0	0.1	1.6
~1600	6794500	2122900	4973.0	4972.9	0.1	0.8
~1601	6794500	2122850	4973.0	4972.9	0.1	1.8
~1602	6794500	2122800	4972.9	4972.9	0.1	0.6
~1603	6794500	2122750	4973.0	4972.8	0.2	1.8
~1620	6794450	2122950	4971.7	4971.7	0.0	0.4
~1621	6794450	2122900	4971.7	4971.7	0.0	0.1
~1622	6794450	2122850	4971.8	4971.6	0.1	1.6
~1623	6794450	2122800	4971.6	4971.6	0.0	0.4
~1624	6794450	2122750	4971.6	4971.6	0.0	0.1
~1641	6794400	2122950	4970.5	4970.4	0.1	0.6
~1642	6794400	2122900	4970.4	4970.4	0.0	0.2
~1643	6794400	2122850	4970.4	4970.4	0.0	0.4
~1644	6794400	2122800	4970.4	4970.3	0.1	1.2
~1645	6794400	2122750	4970.4	4970.3	0.1	0.9
~1662	6794350	2122950	4969.3	4969.2	0.1	1.1
~1663	6794350	2122900	4969.2	4969.1	0.1	1.4
~1664	6794350	2122850	4969.1	4969.1	0.0	0.2
~1665	6794350	2122800	4969.1	4969.1	0.0	0.1
~1666	6794350	2122750	4969.1	4969.0	0.1	0.6
~1681	6794300	2123000	4967.9	4967.9	0.0	0.1
~1682	6794300	2122950	4967.9	4967.9	0.0	0.2
~1683	6794300	2122900	4967.9	4967.9	0.0	0.3
~1684	6794300	2122850	4967.9	4967.8	0.1	1.1
~1685	6794300	2122800	4968.0	4967.8	0.1	1.7
~1686	6794300	2122750	4967.8	4967.8	0.0	0.6
~1700	6794250	2123000	4966.8	4966.7	0.2	1.8
~1701	6794250	2122950	4966.7	4966.6	0.1	1.0
~1702	6794250	2122900	4966.7	4966.6	0.1	0.8
~1703	6794250	2122850	4966.6	4966.6	0.0	0.1
~1704	6794250	2122800	4966.7	4966.6	0.1	1.6
~1705	6794250	2122750	4966.6	4966.5	0.1	0.9
					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

Comments:

Approval Date: 8/4/2011 Total Square Feet: 119,665

North West Corner: 6794641 N. 2122735 E.

QC Signature: Mitch Hogan/ Reviewed By: Beachem Bosh

EnergySolutions

ENERGYSOLUTIONS

Environmental Management - Grand Junction Office
MOAB
UMTRA Project
CRJ 000977

Top of Waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 9-19-2011

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

Lift Area	Lift Area
UWW27	

Approver Name/Title	Signature	Sign Date
Brent Anderson / Operations / Construction Manager	[signature]	9-20-2011
Todd McFarland / Operations Supervisor	[signature]	9-19-2011
Beachem Bosh / QA/QC Representative	[signature]	9-19-2011
Comments		
Buy off area is only a section of UWW27 lift area, see attached for boundary area.		

OP-F-013
Rev 0, August 2010

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A2. RRM
Top of Waste Buyoff Surveys

Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWW27		Date:	9/19/2011
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in Inches
8608	6794198	2123005	4965.4	4965.4	0.1	1.0
8646	6794204	2123055	4965.6	4965.5	0.1	0.6
8684	6794210	2123104	4965.8	4965.7	0.1	1.1
8722	6794216	2123154	4966.0	4965.9	0.1	1.0
8607	6794237	2123000	4966.4	4966.4	0.0	0.6
8645	6794244	2123050	4966.6	4966.5	0.0	0.5
8683	6794250	2123099	4966.8	4966.7	0.1	0.9
8721	6794256	2123149	4967.0	4966.9	0.0	0.5
8720	6794306	2123143	4968.2	4968.2	0.0	0.4
8682	6794299	2123093	4968.1	4968.0	0.1	1.0
8644	6794293	2123044	4967.9	4967.8	0.1	0.9
8606	6794287	2122994	4967.7	4967.6	0.1	0.9
8605	6794337	2122988	4968.9	4968.9	0.1	0.8
8643	6794343	2123037	4969.1	4969.0	0.1	0.7
8681	6794349	2123087	4969.4	4969.2	0.1	1.7
8719	6794355	2123137	4969.4	4969.4	0.0	0.4
8718	6794405	2123130	4970.7	4970.7	0.0	0.4
8680	6794399	2123081	4970.5	4970.5	0.0	0.5
8680	6794399	2123081	4970.5	4970.5	0.0	0.2
8642	6794393	2123031	4970.3	4970.3	0.0	0.5
8604	6794386	2122981	4970.1	4970.1	0.0	0.2
8603	6794436	2122975	4971.4	4971.4	0.1	0.7
8641	6794442	2123025	4971.6	4971.5	0.1	0.7
8679	6794448	2123075	4971.8	4971.7	0.0	0.4
8717	6794455	2123124	4971.9	4971.9	0.0	0.3
8716	6794504	2123118	4973.2	4973.2	0.0	0.0
8678	6794498	2123068	4973.0	4973.0	0.0	0.3
8640	6794492	2123019	4972.9	4972.8	0.1	0.8
8602	6794485	2122969	4972.6	4972.6	0.0	0.5
8601	6794535	2122963	4973.9	4973.9	0.0	0.3
8639	6794541	2123012	4974.1	4974.0	0.1	0.8
8677	6794548	2123062	4974.3	4974.2	0.1	0.8
8715	6794554	2123112	4974.5	4974.4	0.1	0.7
8714	6794603	2123105	4975.7	4975.7	0.1	0.9
8676	6794597	2123056	4975.6	4975.5	0.1	0.8
8638	6794591	2123006	4975.4	4975.3	0.1	0.9
8600	6794585	2122957	4975.2	4975.1	0.1	0.8
					0.0	0.0
					0.0	0.0
					0.0	0.0
					0.0	0.0
					0.0	0.0
					0.0	0.0
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					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

9-19-11 BB

N/A

Comments: QC performed a visual inspection of the final surface with satisfactory results. Visual inspection notes: The area was free of humping, thickened edges and defects. The layer uniform thickness was satisfactory see above survey results for layer thickness. Buy off survey is a section of UWW27 see attached for boundary area.

Approval Date: 9/19/2011 | Total Square Feet: 55,779 ft²

North West Corner: 6794600 N 2122989 E

QC Signature: Beachem Bosh / | Reviewed By: Mitch Hogan /

EnergySolutions

A2. RRM
Top of Waste Buyoff Surveys

Environmental Management • Grand Junction Office
MOAB
UMTRA Project
CRJ 000978

ENERGYSOLUTIONS

Top of Waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 09-20-2011

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

Lift Area	Lift Area
UWW27	

Approver Name/Title	Signature	Sign Date
Brent Anderson/ Operations/ Construction Manager	Brent Anderson	9-20-2011
Todd McFarland/ Operations Supervisor	Todd McFarland	9-20-2011
Beachem Bosh/ QA/QC Representative		9-20-2011
Comments		
Buyoff is the last section of UWW27 lift area, see UWW27 dated 09-19-2011. See attached for boundary area.		

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Rev 0, August 2010

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A2. RRM
Top of Waste Buyoff Surveys

Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWW27		Date:	9/20/2011
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in Inches
-8753	6794560	2123161	4974.6	4974.6	0.0	0.2
-8754	6794510	2123168	4973.4	4973.4	0.1	0.6
-8755	6794461	2123174	4972.2	4972.1	0.1	0.8
-8756	6794411	2123180	4970.9	4970.9	0.1	0.6
-8757	6794362	2123186	4969.7	4969.6	0.1	0.7
-8758	6794312	2123192	4968.4	4968.4	0.1	0.7
-8759	6794262	2123199	4967.1	4967.1	0.0	0.5
-8760	6794223	2123204	4966.1	4966.1	0.0	0.6
-8791	6794566	2123211	4974.8	4974.8	0.0	0.0
-8792	6794517	2123217	4973.6	4973.6	0.0	0.4
-8793	6794467	2123223	4972.3	4972.3	0.0	0.1
-8794	6794417	2123230	4971.1	4971.0	0.1	0.7
-8795	6794368	2123236	4969.8	4969.8	0.0	0.3
-8796	6794318	2123242	4968.5	4968.5	0.0	0.2
-8797	6794269	2123248	4967.3	4967.3	0.1	0.7
-8798	6794226	2123253	4966.3	4966.3	0.0	0.4
					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
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					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

Comments: QC performed a visual inspection of the final surface with satisfactory results. Visual inspection notes: The area was free of humping, thickened edges and defects. The layer uniform thickness was satisfactory see above survey results for layer thickness.

Approval Date: 9/20/2011 | Total Square Feet: 38,319

North West Corner: 6794516 N. 2123122 E.

QC Signature: Beachem Bosh/ | Reviewed By: Mitch Hogan/

EnergySolutions

A2. RRM
Top of Waste Buyoff Surveys

ENERGYSOLUTIONS

Environmental Management - Grand Junction Office
MOAB
UMTRA Project

CRJ 000979

Top of Waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 9-22-2011

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

Lift Area	Lift Area
UWV21 9-22-2011	

Approver Name/Title	Signature	Sign Date
Brent Anderson / Construction/Operations Manager	Brent Anderson	9-22-2011
Todd McFarland Operations Manager	Todd McFarland	9-22-2011
Mitch Hogan QA/QC Representative	[illegible]	9-22-2011
Comments		

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A2. RRM
Top of Waste Buyoff Surveys

Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWV21		Date:	9/22/2011
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
-8634	6794789	2122981	4980.4	4980.3	0.1	1.8
-8635	6794740	2122987	4979.1	4979.0	0.1	0.9
-8636	6794690	2122994	4978.0	4977.8	0.2	2.0
-8637	6794641	2123000	4976.6	4976.5	0.1	0.6
-8638	6794591	2123006	4975.3	4975.3	0.1	0.7
-8672	6794796	2123031	4980.6	4980.5	0.2	1.9
-8673	6794746	2123037	4979.3	4979.2	0.0	0.4
-8674	6794698	2123043	4978.0	4978.0	0.0	0.4
-8675	6794647	2123050	4976.8	4976.7	0.1	0.9
-8676	6794597	2123056	4975.6	4975.5	0.1	1.7
-8710	6794802	2123080	4980.7	4980.7	0.0	0.5
-8711	6794752	2123087	4979.5	4979.4	0.1	1.3
-8712	6794703	2123093	4978.2	4978.2	0.0	0.2
-8713	6794653	2123099	4976.9	4976.9	0.0	0.3
-8714	6794603	2123105	4975.7	4975.7	0.1	1.0
-8748	6794808	2123130	4980.9	4980.9	0.0	0.2
-8749	6794758	2123136	4979.7	4979.6	0.1	1.6
-8750	6794709	2123143	4978.5	4978.4	0.2	1.9
-8751	6794659	2123149	4977.2	4977.1	0.1	1.2
-8752	6794610	2123155	4976.0	4975.9	0.2	1.8
-8753	6794560	2123161	4974.6	4974.6	0.0	0.4
-8787	6794765	2123186	4979.8	4979.8	0.0	0.2
-8788	6794715	2123192	4978.6	4978.5	0.1	1.2
-8789	6794665	2123198	4977.4	4977.3	0.1	1.7
-8790	6794616	2123205	4976.1	4976.0	0.1	1.0
-8791	6794566	2123211	4974.8	4974.8	0.1	0.7
					0.0	0.0
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Comments: QC performed a visual inspection of the final surface with satisfactory results. Visual inspection notes: The area was free of humping, thickened edges and defects. The layer uniform thickness was satisfactory see above survey results for layer thickness.

Approval Date: 9/22/2011 Total Square Feet: 69,034

North West Corner: 6794834 N. 2122945 E.

QC Signature: Mitch Hogan/ Reviewed By: Beachem Bosh/

EnergySolutions

A2. RRM
Top of Waste Buyoff Surveys

ENERGYSOLUTIONS

Environmental Management - Grand Junction Office
MOAB
UMTRA Project

CRJ 000980

Top of Waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 9-26-2011

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

Lift Area	Lift Area
UWV21 9-26-2011	

Approver Name/Title	Signature	Sign Date
Brent Anderson / Construction/Operations Manager	Brent Anderson	9-26-2011
Todd McFarland Operations Manager	Todd McFarland	9-26-2011
Mitch Hogan QA/QC Representative	[signature]	9-26-2011
Comments		
This is the 2nd buy off for this lift area a condition report was issued for the 1st buy off on 9-22-11		

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Top Of Waste Buyoff Survey

Lift Area Buyoff ID:		UWV21		Date:	9/23/2011

Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
~8634	6794789	2122981	4980.4	4980.3	0.1	1.6
~8635	6794740	2122987	4979.2	4979.0	0.1	1.6
~8636	6794690	2122994	4977.8	4977.8	0.0	0.4
~8637	6794641	2123000	4976.7	4976.5	0.1	1.6
~8638	6794591	2123006	4975.3	4975.3	0.1	0.7
~8634	6794789	2122981	4980.4	4980.3	0.1	1.6
~8635	6794740	2122987	4979.2	4979.0	0.1	1.6
~8636	6794690	2122994	4977.8	4977.8	0.0	0.4
~8037	6794641	2123000	4976.7	4976.5	0.1	1.6
~8676	6794597	2123055	4975.6	4975.6	0.1	1.7
~8710	6794802	2123080	4980.7	4980.7	0.1	0.8
~8711	6794752	2123087	4979.5	4979.4	0.1	0.8
~8712	6794703	2123093	4978.3	4978.2	0.1	1.1
~8713	6794653	2123099	4976.9	4976.9	0.0	0.1
~8714	6794603	2123105	4975.7	4975.7	0.0	0.6
~8748	6794808	2123130	4980.9	4980.9	0.0	0.2
~8749	6794758	2123136	4979.6	4979.6	0.0	0.6
~8750	6794709	2123142	4978.4	4978.4	0.1	0.9
~8751	6794659	2123149	4977.1	4977.1	0.0	0.0
~8752	6794610	2123155	4975.9	4975.9	0.0	0.4
~8753	6794560	2123161	4974.6	4974.6	0.0	0.4
~8787	6794765	2123186	4979.8	4979.8	0.0	0.2
~8788	6794715	2123192	4978.6	4978.5	0.0	0.5
~8789	6794666	2123198	4977.3	4977.3	0.0	0.2
~8790	6794616	2123205	4976.1	4976.0	0.1	0.7
~8791	6794566	2123211	4974.8	4974.8	0.1	0.7
					0.0	0.0
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					0.0	0.0

Comments: QC performed a visual inspection of the final surface with satisfactory results. Visual inspection notes: The area was free of humping, thickened edges and defects. The layer uniform thickness was satisfactory see above survey results for layer thickness. This is the second buyoff for this area. A Condition Report was issued on the first buyoff.

Approval Date: 9/23/2011 | Total Square Feet: 69,034

North West Corner: 6794834 N. 2122945 E.

QC Signature: Mitch Hogan/ | Reviewed By: Beachem Bosh/

EnergySolutions

Pg 1 of 2

A2. RRM
Top of Waste Buyoff Surveys

CRJ 000968
UMTRA Project

ENERGYSOLUTIONS

Top of Waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 10-13-2011

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

Lift Area	Lift Area
UWS16	

Approver Name/Title	Signature	Sign Date
Brent Anderson/ Construction Manager	Brent Anderson	10-13-11
Todd McFarland/ Operations Supervisor	Todd McFarland	10-13-11
Beachem Bosh/ QA/QC Representative	[signature]	10-13-11
Comments		

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Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWS16		Date:	10/13/2011
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
8633	6794839	2122975	4981.55	4981.54	0.0	0.1
8671	6794845	2123025	4981.80	4981.73	0.1	0.9
8709	6794851	2123074	4981.96	4981.91	0.1	0.6
8748	6794808	2123130	4980.86	4980.85	0.0	0.1
8747	6794858	2123124	4982.13	4982.10	0.0	0.3
8786	6794814	2123180	4981.04	4981.03	0.0	0.1
8785	6794864	2123173	4982.30	4982.28	0.0	0.3
8784	6794913	2123167	4983.54	4983.53	0.0	0.1
8746	6794907	2123118	4983.41	4983.35	0.1	0.7
8708	6794901	2123068	4983.21	4983.16	0.1	0.6
8670	6794895	2123018	4983.02	4982.98	0.0	0.5
8632	6794889	2122969	4982.82	4982.79	0.0	0.4
8631	6794938	2122963	4984.05	4984.04	0.0	0.1
8669	6794944	2123012	4984.28	4984.23	0.0	0.5
8707	6794951	2123062	4984.41	4984.41	0.0	0.0
8745	6794957	2123111	4984.60	4984.60	0.0	0.0
8744	6795007	2123105	4985.92	4985.85	0.1	0.9
8706	6795000	2123056	4985.66	4985.66	0.0	0.0
8668	6794994	2123006	4985.54	4985.48	0.1	0.7
8630	6794988	2122956	4985.32	4985.29	0.0	0.4
8629	6795037	2122950	4986.56	4986.54	0.0	0.2
8667	6795044	2123000	4986.80	4986.73	0.1	0.9
8705	6795050	2123049	4986.98	4986.91	0.1	0.8
8743	6795056	2123099	4987.11	4987.10	0.0	0.1
					0.0	0.0
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Comments: QC performed a visual inspection of the final surface with satisfactory results. Visual inspection notes: The area was free of humping, thickened edges and defects. The layer uniform thickness was satisfactory see above survey results for layer thickness.

Approval Date: 10/13/2011 | Total Square Feet: 55,150ft²

North West Corner: 6795052 N 2122297 E

QC Signature: Beachem Bosh/ | Reviewed By: Mitch Hogan/

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CRJ 000995
Environmental MOAB UMTRA Project

ENERGYSOLUTIONS

Top of Waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 11-21-2011

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

Lift Area	Lift Area
UWR06	

Approver Name/Title	Signature	Sign Date
Brent Anderson/ Construction Manager	Brent Anderson	11-21-11
Todd McFarland/ Operations Supervisor	[signature]	11-21-2011
Beachem Bosh/ QA/QC Representative	[signature]	11·21·2011
Comments		

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A2. RRM
Top of Waste Buyoff Surveys

Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWR06		Date:	11/21/2011
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in Inches
8476	6795062	2122745	4987.2	4987.0	0.1	1.5
8552	6795075	2122845	4987.5	4987.4	0.1	0.7
8590	6795081	2122894	4987.7	4987.6	0.1	1.3
8589	6795130	2122888	4988.9	4988.9	0.1	1.1
8551	6795124	2122838	4988.7	4988.7	0.1	0.9
8474	6795161	2122733	4989.6	4989.5	0.1	1.3
8550	6795174	2122832	4990.0	4989.9	0.1	1.1
8588	6795180	2122882	4990.2	4990.1	0.1	0.9
8626	6795186	2122931	4990.3	4990.3	0.0	0.2
8625	6795236	2122925	4991.6	4991.5	0.0	0.1
8587	6795230	2122876	4991.4	4991.4	0.0	0.5
8549	6795223	2122826	4991.2	4991.2	0.0	0.3
8511	6795217	2122776	4991.1	4991.0	0.1	1.2
8473	6795211	2122727	4990.8	4990.8	0.0	0.0
8472	6795261	2122726	4992.1	4992.0	0.1	0.9
8510	6795267	2122770	4992.2	4992.2	0.0	0.1
8548	6795273	2122820	4992.5	4992.4	0.0	0.5
8586	6795279	2122869	4992.6	4992.6	0.0	0.4
8624	6795285	2122919	4992.8	4992.8	0.0	0.3
8623	6795335	2122913	4994.1	4994.0	0.0	0.3
8547	6795323	2122813	4993.7	4993.7	0.1	0.6
8509	6795318	2122764	4993.6	4993.5	0.0	0.3
8508	6795366	2122756	4994.7	4994.7	0.0	0.0
8546	6795372	2122807	4995.0	4994.9	0.1	0.7
8584	6795378	2122857	4995.1	4995.1	0.0	0.0
8622	6795385	2122906	4995.3	4995.3	0.0	0.3
8583	6795428	2122850	4996.4	4996.4	0.0	0.2
8545	6795422	2122801	4995.2	4996.2	0.0	0.2
8507	6795416	2122751	4996.0	4996.0	0.1	0.7
8475	6795112	2122739	4988.4	4988.3	0.1	1.6
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				N/A	0.0	0.0
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Comments: QC performed a visual inspection of the final surface with satisfactory results. Visual inspection notes: The area was free of humping, thickened edges and defects. The layer uniform thickness was satisfactory see above survey results for layer thickness. Point 8472 was shot 5' to the East of actually grid location due to that area was already covered with interim cover shot was taken to ensure area that was not covered was within allowed tolerance.

Approval Date: 11/21/2011 | Total Square Feet: 80,870 ft²

North West Corner: 6795437 N 2122728 E

QC Signature: Beacham Bosh / Reviewed By: Mitch Hogan /

EnergySolutions

A2. RRM
Top of Waste Buyoff Surveys

CRJ 000997
UMTRA Project

ENERGYSOLUTIONS

Top of Waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 11-28-2011

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

Lift Area	Lift Area
UWR08	

Approver Name/Title	Signature	Sign Date
Brent Anderson/ Construction Manager	Brent Anderson	11-28-11
Todd McFarland/ Operations Supervisor	Todd McFarland	11-28-2011
Mitch Hogan/ QA/QC Representative		11.28.2011
Comments		

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A2. RRM
Top of Waste Buyoff Surveys

Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWR08		Date:	11/28/2011
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
8660	6795391	2122956	4995.6	4995.5	0.2	1.8
8698	6795397	2123006	4995.8	4995.7	0.1	1.8
8736	6795403	2123055	4995.9	4995.9	0.0	0.3
8737	6795354	2123061	4994.6	4994.6	0.0	0.3
8699	6795348	2123012	4994.4	4994.4	0.0	0.2
8661	6795341	2122962	4994.3	4994.2	0.0	0.4
8662	6795292	2122968	4993.1	4993.0	0.1	0.8
8700	6795298	2123018	4993.2	4993.2	0.1	0.9
8738	6795304	2123068	4993.4	4993.4	0.0	0.1
8701	6795248	2123024	4992.0	4991.9	0.1	0.7
8663	6795242	2122975	4991.8	4991.7	0.1	0.8
8625	6795236	2122925	4991.6	4991.5	0.0	0.1
8626	6795186	2122931	4990.3	4990.3	0.0	0.0
8664	6795192	2122981	4990.5	4990.5	0.0	0.6
8702	6795199	2123031	4990.7	4990.7	0.0	0.2
8703	6795149	2123037	4989.5	4989.4	0.1	0.9
8665	6795143	2122987	4989.4	4989.2	0.2	1.9
8627	6795137	2122938	4989.1	4989.0	0.1	0.6
8666	6795093	2122993	4988.0	4988.0	0.0	0.5
8704	6795100	2123043	4988.3	4988.2	0.1	1.5
8742	6795106	2123093	4988.4	4988.4	0.0	0.1
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Comments: QC performed a visual inspection of the final surface with satisfactory results. Visual inspection notes: The area was free of humping, thickened edges and defects. The layer uniform thickness was satisfactory see above survey results for layer thickness.

Approval Date: 11/28/2011 Total Square Feet: 65,328

North West Corner: 6795428 N. 2122914 E.

QC Signature: Mitch Hogan/ Reviewed By: Beachem Bosh/

EnergySolutions

A2. RRM
Top of Waste Buyoff Surveys

ENERGYSOLUTIONS

Environmental Management • Grand Junction Office
MOAB
UMTRA Project

CRJ 001178

Top of Waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 2-12-2012

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

Lift Area	Lift Area
UWP01	UWO04

Approver Name/Title	Signature	Sign Date
Beachem Bosh / QA/QC Representative	[signature]	2-10-12
Todd McFarland / Operation Supervisor	[signature]	2-10-12
Brent Anderson / Construction Manager	[signature]	2-10-12
Comments		
See Attached Survey Data and Map for Buy off survey data.		

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A2. RRM
Top of Waste Buyoff Surveys

Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWP01 and UWO04		Date:	2/10/2012
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
8571	6796000	2122779	4987.1	4987.1	0.1	0.8
8609	6796007	2122828	4987.3	4987.3	0.0	0.1
8647	6796013	2122878	4987.5	4987.4	0.1	1.1
8648	6795986	2122881	4988.1	4988.0	0.1	0.9
8610	6795980	2122831	4987.8	4987.8	0.0	0.2
8572	6795974	2122782	4987.6	4987.6	0.0	0.2
8534	6795968	2122732	4987.4	4987.4	0.0	0.2
8535	6795918	2122739	4988.5	4988.4	0.1	0.9
8573	6795924	2122788	4988.6	4988.6	0.0	0.2
8611	6795930	2122838	4988.8	4988.8	0.0	0.1
8649	6795937	2122887	4989.0	4989.0	0.0	0.3
8612	6795881	2122844	4989.8	4989.8	0.0	0.1
8574	6795875	2122794	4989.7	4989.6	0.1	1.1
8536	6795868	2122745	4989.5	4989.4	0.0	0.4
8537	6795819	2122751	4990.5	4990.4	0.0	0.4
8575	6795825	2122801	4990.7	4990.6	0.1	1.6
8613	6795831	2122850	4990.9	4990.8	0.1	1.5
8614	6795782	2122856	4991.8	4991.8	0.0	0.1
8576	6795775	2122807	4991.7	4991.6	0.0	0.6
8538	6795769	2122757	4991.5	4991.4	0.0	0.5
8501	6795713	2122714	4992.2	4992.2	0.0	0.1
8539	6795719	2122763	4992.5	4992.4	0.0	0.6
8577	6795726	2122813	4992.7	4992.6	0.1	0.7
8615	6795732	2122863	4992.8	4992.8	0.0	0.1
8616	6795682	2122869	4993.9	4993.8	0.1	1.0
8578	6795676	2122819	4993.6	4993.6	0.0	0.4
8540	6795670	2122770	4993.6	4993.4	0.1	1.8
8502	6795664	2122720	4993.2	4993.2	0.0	0.0
8503	6795614	2122726	4994.3	4994.2	0.0	0.3
8541	6795620	2122776	4994.4	4994.4	0.0	0.3
8579	6795626	2122826	4994.7	4994.6	0.1	1.0
8580	6795577	2122832	4995.6	4995.6	0.0	0.3
8542	6795571	2122782	4995.5	4995.4	0.1	0.9
8504	6795564	2122733	4995.3	4995.2	0.1	0.8
8505	6795515	2122739	4996.2	4996.2	0.0	0.2
8543	6795521	2122788	4996.4	4996.4	0.0	0.1
8581	6795527	2122838	4996.6	4996.6	0.0	0.0
8582	6795478	2122844	4997.6	4997.6	0.0	0.2
8544	6795471	2122795	4997.4	4997.4	0.0	0.2
8506	6795465	2122745	4997.3	4997.2	0.0	0.5
8545	6795422	2122801	4996.2	4996.2	0.0	0.2
8503	6795420	2122850	4996.4	4996.4	0.0	0.1

NA 2-10-12 BB

Comments: QC performed a visual inspection of the final surface with satisfactory results. Visual inspection notes: The area was free of humping, thickened edges and defects. The layer uniform thickness was satisfactory see above survey results for layer thickness.

Approval Date: 2/10/2012 | Total Square Feet: 93,865

North West Corner: 6795994 N 2122733 E

QC Signature: Beachem Bosh / | Reviewed By: Mitch Hogan /

EnergySolutions

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A2. RRM
Top of Waste Buyoff Surveys

ENERGYSOLUTIONS

Environmental Management - Grand Junction Office
MOAB
UMTRA Project

CRJ 001179

Top of Waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 03/01/2012

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

Lift Area	Lift Area
UWQ01	UWQ04

Approver Name/Title	Signature	Sign Date
Brent Anderson/ Construction Manager	Brent Anderson	03/01/12
Todd McFarland/ Operations Supervisor	Todd McFarland	03-01-2012
Mitch Hogan/ QA/QC Representative		03.01.2012
Comments		
The two lift areas combined equal 94,321 ft²		

OP-F-013
Rev 0, August 2010

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File Index No. ~~43.1.1~~
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Top Of Waste Buyoff Survey

Lift Area Buyoff ID:			UWQ01-UWQ04		Date:	3/1/2012
Point #	Northing	Easting	Surveyed Elevation	Design Elevation	Difference in feet	Difference in inches
8723	6796025	2122977	4988.0	4987.8	0.2	1.9
8685	6796019	2122927	4987.8	4987.6	0.1	1.7
8648	6795986	2122881	4988.1	4988.0	0.1	1.7
8686	6795993	2122931	4988.3	4988.2	0.1	1.7
8724	6795999	2122980	4988.4	4988.4	0.1	0.8
8725	6795949	2122987	4989.4	4989.4	0.0	0.3
8687	6795943	2122937	4989.2	4989.2	0.0	0.3
8649	6795937	2122887	4989.0	4989.0	0.0	0.1
8650	6795887	2122894	4990.0	4990.0	0.0	0.2
8688	6795893	2122943	4990.2	4990.2	0.1	0.7
8726	6795899	2122993	4990.4	4990.4	0.1	0.8
8727	6795850	2122999	4991.5	4991.4	0.1	1.5
8689	6795844	2122950	4991.2	4991.2	0.0	0.6
8651	6795837	2122900	4991.1	4991.0	0.1	1.4
8652	6795788	2122906	4992.1	4992.0	0.2	1.8
8690	6795794	2122956	4992.2	4992.2	0.0	0.5
8728	6795800	2123005	4992.4	4992.4	0.1	1.1
8729	6795751	2123012	4993.4	4993.4	0.1	0.7
8691	6795744	2122962	4993.2	4993.2	0.1	0.9
8653	6795738	2122912	4993.1	4993.0	0.1	1.2
8654	6795688	2122919	4994.0	4994.0	0.0	0.2
8692	6795695	2122968	4994.2	4994.2	0.1	1.0
8730	6795701	2123018	4994.5	4994.4	0.1	1.7
8731	6795651	2123024	4995.4	4995.4	0.1	0.9
8693	6795645	2122974	4995.3	4995.2	0.1	1.7
8655	6795639	2122925	4995.1	4995.0	0.1	1.2
8656	6795589	2122931	4996.1	4996.0	0.1	0.9
8694	6795596	2122981	4996.3	4996.2	0.2	1.9
8619	6795534	2122888	4996.8	4996.8	0.0	0.0
8618	6795583	2122881	4995.9	4995.8	0.1	1.4
8657	6795540	2122937	4997.0	4997.0	0.0	0.0
8695	6795546	2122987	4997.2	4997.2	0.1	1.1
8733	6795552	2123036	4997.4	4997.4	0.1	0.9
8734	6795503	2123043	4998.4	4998.4	0.0	0.1
8696	6795496	2122993	4998.2	4998.2	0.0	0.2
8658	6795490	2122944	4998.0	4998.0	0.0	0.3
8620	6795484	2122894	4997.8	4997.8	0.1	0.7
8621	6795434	2122900	4996.7	4996.5	0.1	1.7
8659	6795440	2122950	4996.7	4996.7	0.0	0.0
8697	6795447	2122999	4997.1	4996.9	0.2	1.8
8735	6795453	2123049	4997.2	4997.1	0.1	1.5
8732	6795602	2123030	4996.5	4996.4	0.2	1.8
					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	0.0
					0.0	0.0
					0.0	0.0
					0.0	0.0
					0.0	0.0

Comments: QC performed a visual inspection of the final surface with satisfactory results. Visual inspection notes: The area was free of humping, thickened edges and defects. The layer uniform thickness was satisfactory see above survey results for layer thickness.

Approval Date: 3/1/2012 Total Square Feet: 94321

Northwest Corner: 6796016 N 2122876 E

QC Signature: Thomas S Nett Thomas S Nett Reviewed By: Mitch Hogan

EnergySolutions

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A2. RRM
Top of Waste Buyoff Surveys

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ENERGYSOLUTIONS

Environmental Management - Grand Junction Office
MOAB
UMTRA Project

Top of Waste Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 03/01/2012

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

Lift Area	Lift Area
UWQ01	UWQ04

Approver Name/Title	Signature	Sign Date
Brent Anderson/ Construction Manager	Brent Anderson	03/01/12
Todd McFarland/ Operations Supervisor	Todd McFarland	03-01-2012
Mitch Hogan/ QA/QC Representative	[signature]	03.01.2012
Comments		
The two lift areas combined equal 94,321 ft²		

OP-F-013
Rev 0, August 2010

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