CME CONSTRUCTION MATERIALS ENGINEERS, INC.

300 Sierra Manor Drive, Suite 1
Reno, NV 89511

November 26, 2019
File: 1013

Mr. Coltan Hiatt
A&K EARTHMOVERS, INC.
PO Box 1059
Fallon, NV 89407

RE: Aggregate Base Type 2 Class B – Lambert Pit

Dear Mr. Hiatt:

Per your request, we have performed testing on the Type 2, Class B aggregate base delivered to our laboratory on November 18th. Test results in comparison with local standard specifications are as follows:

Sieve Size Analysis (ASTM C136/C117)		
U.S. Standard Sieve Size	Percent By Weight Passing	
	Lambert Pit	Local Standard Specification*
1 Inch	100	100
¾ Inch	98	90 - 100
½ Inch	89	-
⅜ Inch	81	-
No. 4	61	35 – 65
No. 8	47	-
No. 10	44	-
No. 16	36	15 - 40
No. 30	27	-
No. 40	24	-
No. 50	20	-
No. 100	13	-
No. 200	7.8	2 - 10

Fractured Faces (Nev. T230)	
Lambert Pit	Specification*
20.1%**	35% Minimum

Atterberg Limits (ASTM D4318)		
	Lambert Pit	Specification*
Liquid Limit	No Value	35 Maximum
Plasticity Index	Nonplastic	8 Maximum

R-Value (ASTM D2844)	
Lambert Pit	Specification*
71	70 Minimum

*Standard Specifications for Public Works Construction (Washoe County, Sparks, Reno, Carson City and Douglas County), 2012 and NDOT Standard Specifications for Road and Bridge Construction, 2014.

**Does not meet specification.

Moisture Density (ASTM D1557C)	
Maximum Dry Density	129.6 PCF
Optimum Moisture	8.5%

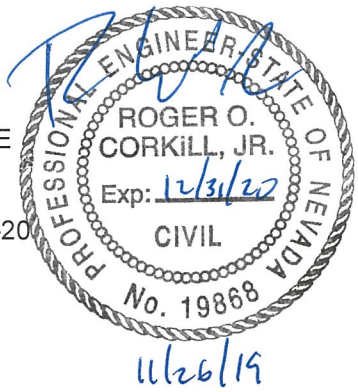
We appreciate this opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

CONSTRUCTION MATERIALS ENGINEERS, INC.

Steven L. Vineis
Laboratory Manager
svineis@cmenv.com
Direct: 775-737-7568
Mobile: 775-772-9921

Roger O. Corkill Jr., PE
Project Manager
RE Number 19868
Expiration Date 12-31-20
rcorkill@cmenv.com
Direct: 775-737-7581
Mobile: 775-722-5067

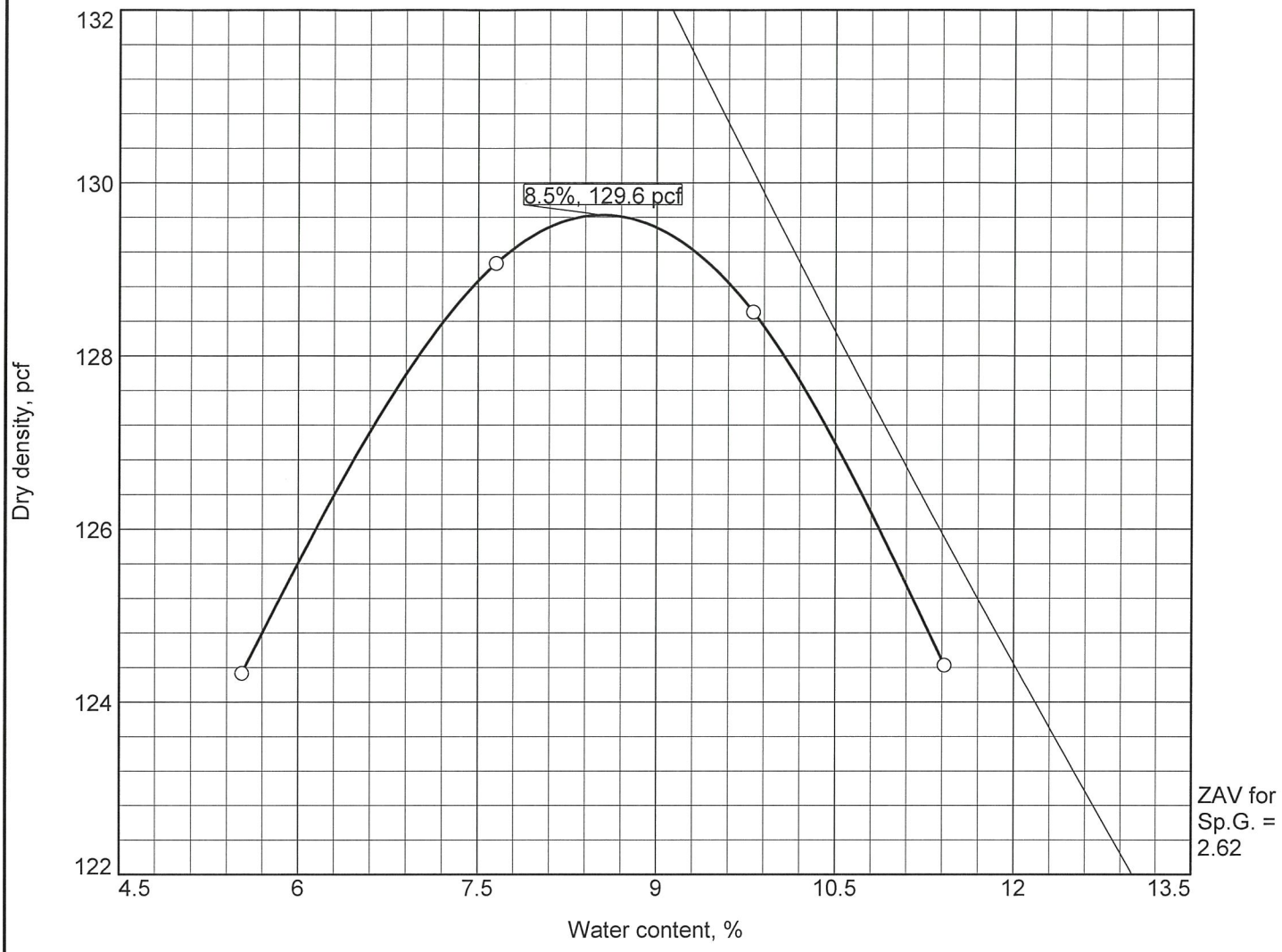


11/26/19

SLV:ROC:asg
Enclosures
v:\active\1013\2019 testing\lambert_pit_t2_cl_b_agg_base_11-26-19.doc

CME

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
						NP	1.5	

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 129.6 pcf Optimum moisture = 8.5 %	AGGREGATE BASE TYPE 2 CLASS B A & K-LAMBERT PIT

Project No. 1013 **Client:** A & K EARTHMOVERS, INC.

Project: AGGREGATE TESTING- LAMBERT PIT

○ **Location:** PLANT STOCKPILE **Sample Number:** 33924

CME CONSTRUCTION MATERIALS ENGINEERS, INC.

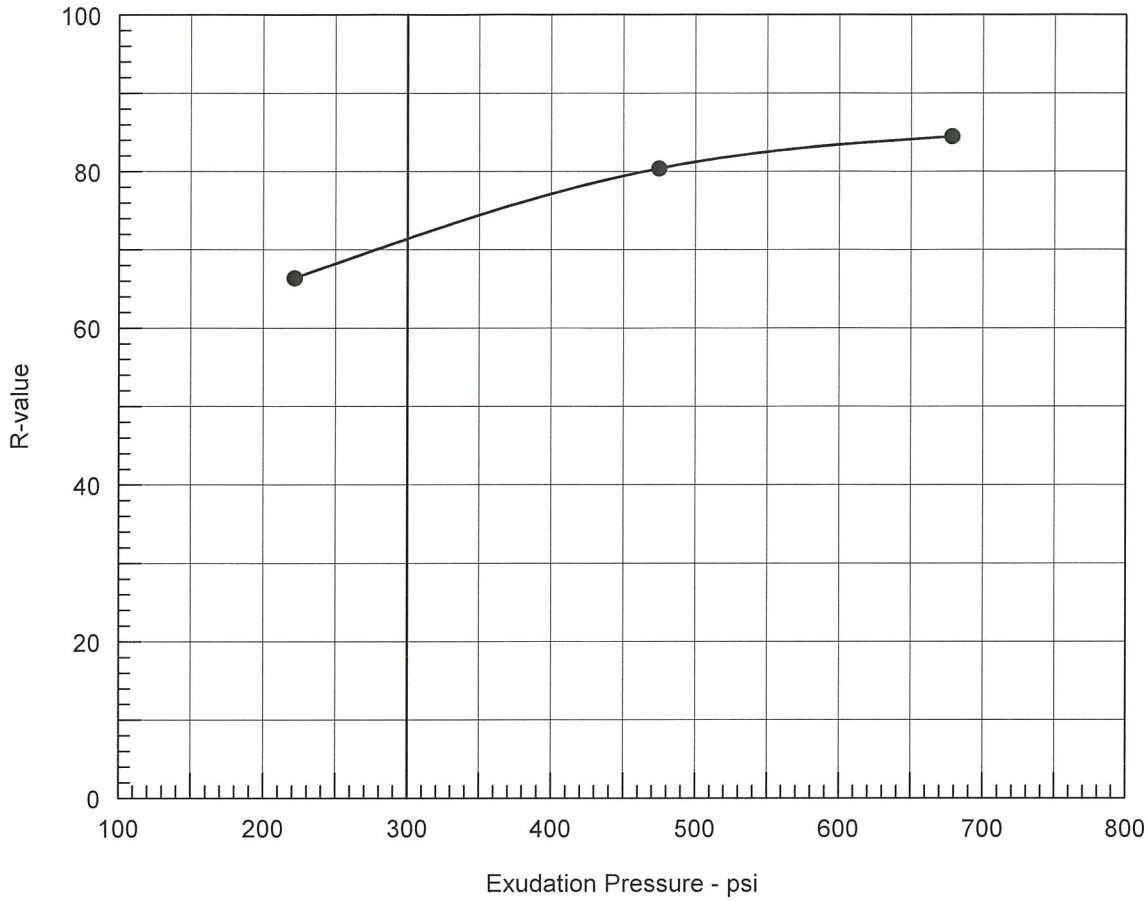
Remarks:

RECEIVED 11/18/2019

Figure

Tested By: N. BURKE **Checked By:** A. SALAZAR

R-VALUE TEST REPORT



Resistance R-Value and Expansion Pressure - ASTM D2844

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	350	129.0	9.1	0.00	16	2.45	679	84	84
2	350	127.8	9.5	0.00	20	2.50	475	80	80
3	350	127.8	10.0	0.00	36	2.47	222	66	66

Test Results	Material Description
R-value at 300 psi exudation pressure = 71	AGGREGATE BASE TYPE 2 CLASS B A & K-LAMBERT PIT

Project No.: 1013
Project: AGGREGATE TESTING- LAMBERT PIT
Location: PLANT STOCKPILE
Sample Number: 33924
Date: 11/26/2019

Tested by: M. PONTONI
Checked by: A. SALAZAR
Remarks:

CME CONSTRUCTION MATERIALS ENGINEERS, INC.

Figure 33924