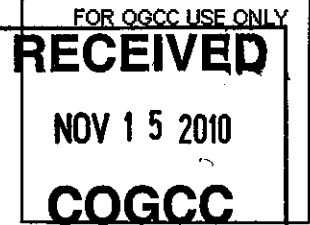


State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



EARTHEN PIT REPORT/PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

Complete the
Attachment Checklist

FORM SUBMITTED FOR:
☒ Pit Report ☐ Pit Permit

	Oper	OGCC
Detailed Site Plan	<input checked="" type="checkbox"/>	
Topo Map w/ Pit Location	<input checked="" type="checkbox"/>	
Water Analysis (Form 25)		
Source Wells (Form 25)		
Pit Design/Plan & Cross Sec	<input checked="" type="checkbox"/>	
Design Calculations	<input checked="" type="checkbox"/>	
Sensitive Area Determ.	<input checked="" type="checkbox"/>	
Mud Program		
Form 2A		

OGCC Operator Number: 96850
Name of Operator: Williams Production RMT
Address: 1058 County Rd 215
City: Parachute State: CO Zip: 81635

Contact Name and Telephone:
Karolina Blaney
No: 970 683-2295
Fax: (970) 285-9573

API Number (of associated well): NA T-25 OGCC Facility ID (of other associated facility): 149015 = Fac. FID
Pit Location (Qtr Qtr, Sec, Twp, Rng, Meridian): S 18.2, T02, R06W, 6TH L.M. Sec 11.2, T7S, R96W, 6TH PM, NW NW - Sec. 1
Latitude: 39-28-47.36"N 39.471484 Longitude: 108-03-58.67"W -108.066295 County: GARFIELD
Pit Use: ☒ Production ☐ Drilling (Attach mud program) ☐ Special Purpose (Describe Use):
Pit Type: ☒ Lined ☐ Unlined Surface Discharge Permit: ☐ Yes ☒ No
Offsite disposal of pit contents: ☒ Injection ☐ Commercial Pit/Facility Name: GRAND VALLEY PIT 1 Pit/Facility No: 41
Attach Form 26 to identify Source Wells and Form 25 to provide Produced Water Analysis results.

Existing Site Conditions

Is the location in a "Sensitive Area?" ☐ Yes ☒ No Attach data used for determination.
Distance (in feet) to nearest surface water: 1969 ground water: 15-25 water wells: 2554
LAND USE (or attach copy of Form 2A if previously submitted for associated well) Select one which best describes land use:
Crop Land: ☐ Irrigated ☐ Dry Land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP
Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe):
Subdivided: ☐ Industrial ☐ Commercial ☐ Residential
SOILS (or attach copy of Form 2A if previously submitted for associated well)
Soil map units from USNRCS survey: Sheet No: NA Soil Complex/Series No: 57
Soils Series Name: 57-POTTS-LIDEFONSO COMPLEX Horizon thickness (in inches): A: 0-4 ; B: 4-28 ; C: 28-60
Soils Series Name: 35-LIDEFONSO-LAZEAR COMPLEX Horizon thickness (in inches): A: 0-8 ; B: 8-60 ; C:
Attach detailed site plan and topo map with pit location.

Pit Design and Construction

Size of pit (feet): Length: 384.5 Width: 274.8 Depth: 15
Calculated pit volume (bbls): 218,455 Daily inflow rate (bbls/day): VARIABLE
Daily disposal rates (attach calculations): Evaporation: NA bbls/day Percolation: NA bbls/day
Type of liner material: SYNTHETIC POLYPROPYLENE ethylene ASR Thickness: 60 MIL
Attach description of proposed design and construction (include sketches and calculations).
Method of treatment of produced water prior to discharge into pit (separator, heater treater, other): NA
Is pit fenced? ☒ Yes ☐ No Is pit netted? ☒ Yes ☐ No

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Karolina Blaney Signed: Karolina Blaney
Title: Environmental Specialist Date: 11/8/2010

OGCC Approved: [Signature] Title: Env. Sup. Date: 1/4/2012

CONDITIONS OF APPROVAL, IF ANY:

FACILITY NUMBER: 426954

See Attached Conditions of Approval

Conditions of Approval – January 4, 2012

Grand Valley Pit # 1; Facility ID: 426954

Pit is constructed in fill. Provide a Professional Engineer (P.E.) stamped review of the as-built construction of the pit and integrity of the pit.

Provide the as-built construction details.

The date provided on the "Sub Grade Acceptance" is the same for the Grand Valley Pit 1, Grand Valley Pit 2, and Grand Valley Pit 3. It appears that the "Sub Grade Acceptance" is applicable for Grand Valley 3. Provide an engineering evaluation (by a P.E.) of the liner installation and "Sub Grade Acceptance."

Provide documentation detailing the historical use and maintenance of the pit, including a timeline of significant maintenance events conducted.

Provide the anticipated time frame which the pit will be in service.

Provide an operation and maintenance (O & M) plan and schedule for the pit.

Provide the daily inflow rate and description of how total fluids management is monitored to evaluate for potential loss through the liner system.

Conduct a 72-hour (minimum) hydrostatic integrity test of the liner system and submit a P.E. review and evaluation of the results of the test.

Leak detection is required for this pit (Rule 904.e.). Provide design and implementation details for leak detection system.

Provide the geologic/hydrogeologic evaluation of the facility which was provided to Garfield County.

Submit Requested information above by March 1, 2012.

pt

Fischer, Alex

From: Blaney, Karolina [Karolina.Blaney@williams.com]
Sent: Monday, May 09, 2011 10:31 AM
To: Fischer, Alex
Subject: Williams - Grand Valley Pits coordinates - for the Form 15s approval

Alex,

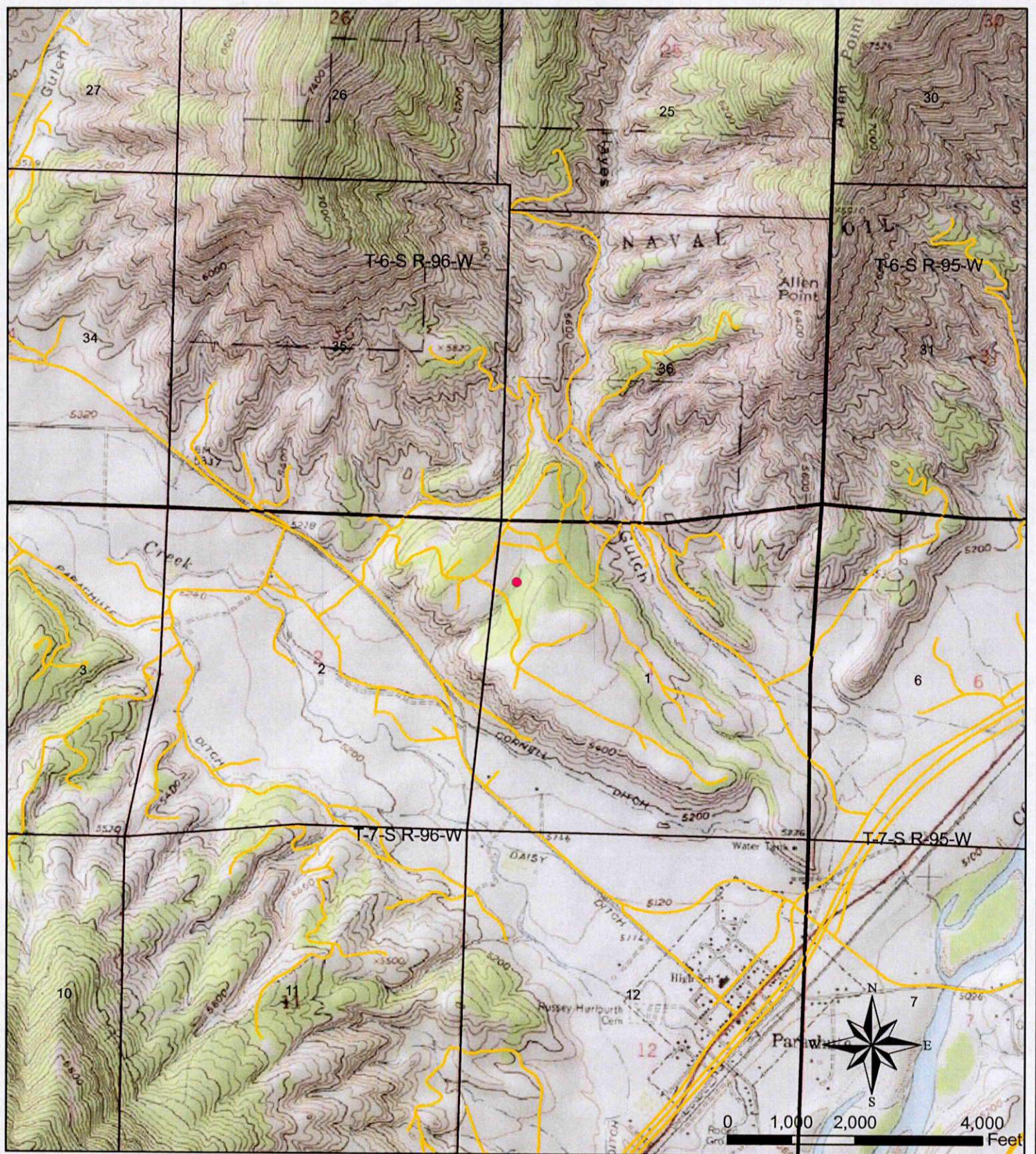
During the last form 15 meeting you asked for the correct coordinates for the three Grand Valley pits in order to get the Form 15 applications approved.

Here are the coordinates:

Grand Valley Pit #1 :	39.471484	-108.066295 ✓
Grand Valley Pit #2:	39.471029	-108.064932
Grand Valley Pit #3:	39.469651	-108.065376

Please let me know if you need anything else.
Thank you and have a great day,

Karolina Blaney
Environmental Specialist
Williams Production R.M.T.
Office: (970) 683-2295
Cell: (970) 589-0743
Fax: (970) 285-9573
karolina.blaney@williams.com



Legend

- Pit
- Road

Williams Production RMT

Pit Location Map



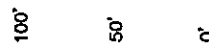
March 18, 2009

WILLIAMS PRODUCTION RMT
PARACHUTE WATER HANDLING FACILITY

POND #1 (AS-BUILT DRAWING)

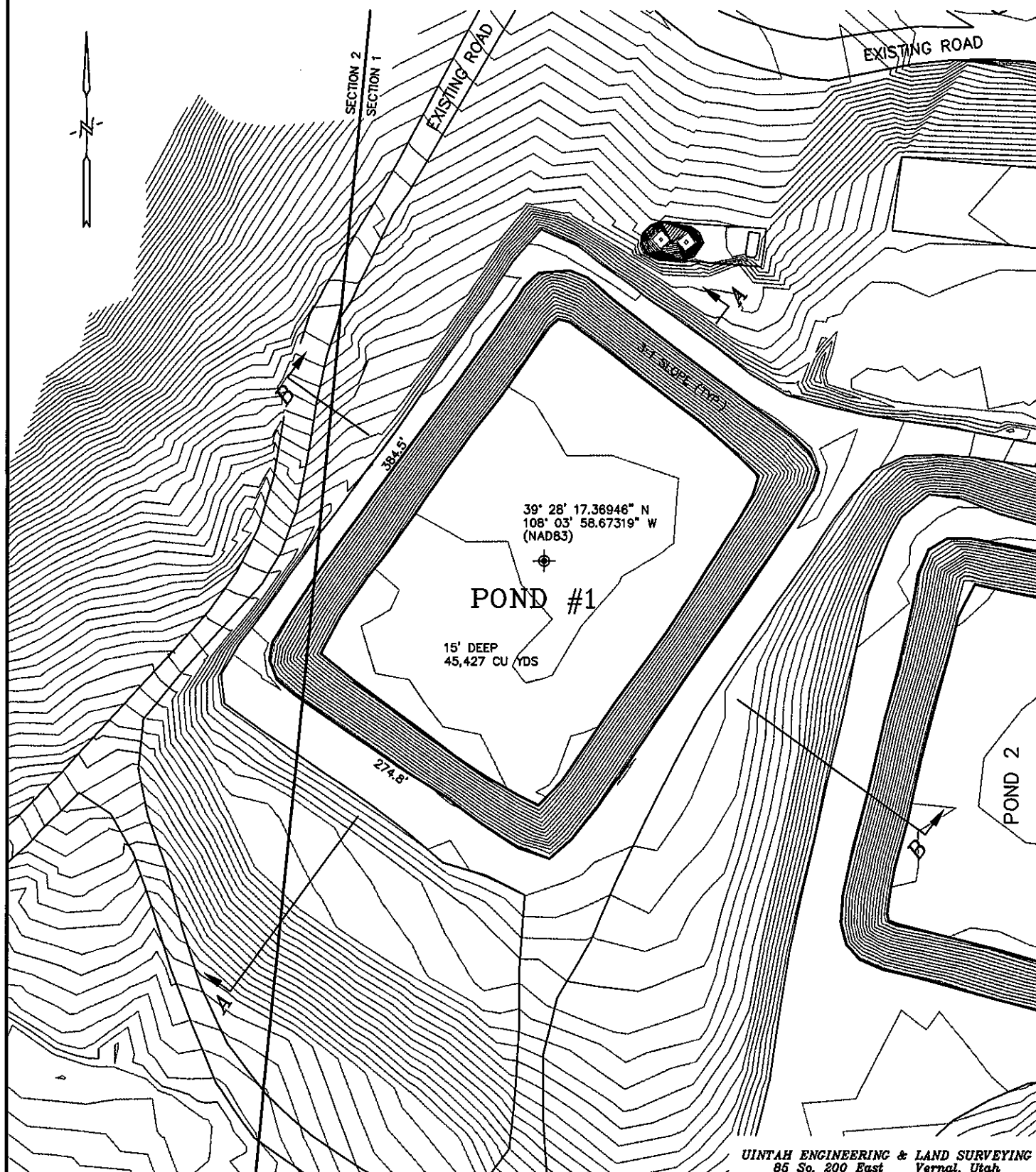
LOCATED IN THE NW 1/4 NW 1/4 OF
SECTION 1, T7S, R96W, 6th P.M.

SHEET 1 OF 2



SCALE: HORIZONTAL
& VERTICAL

DATE: 10-28-10
Drawn By: D.G.W.



WILLIAMS PRODUCTION RMT
PARACHUTE WATER HANDLING FACILITY

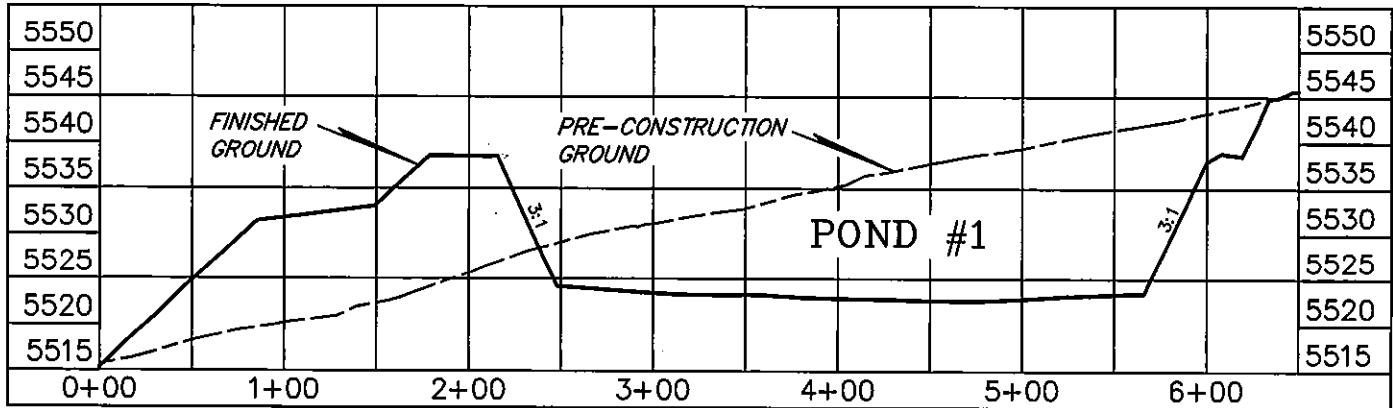
SHEET 2 OF 2

DATE: 10-28-10
Drawn By: D.G.W.

POND #1 (AS-BUILT DRAWING)
LOCATED IN THE NW 1/4 NW 1/4 OF
SECTION 1, T7S, R96W, 6th P.M.

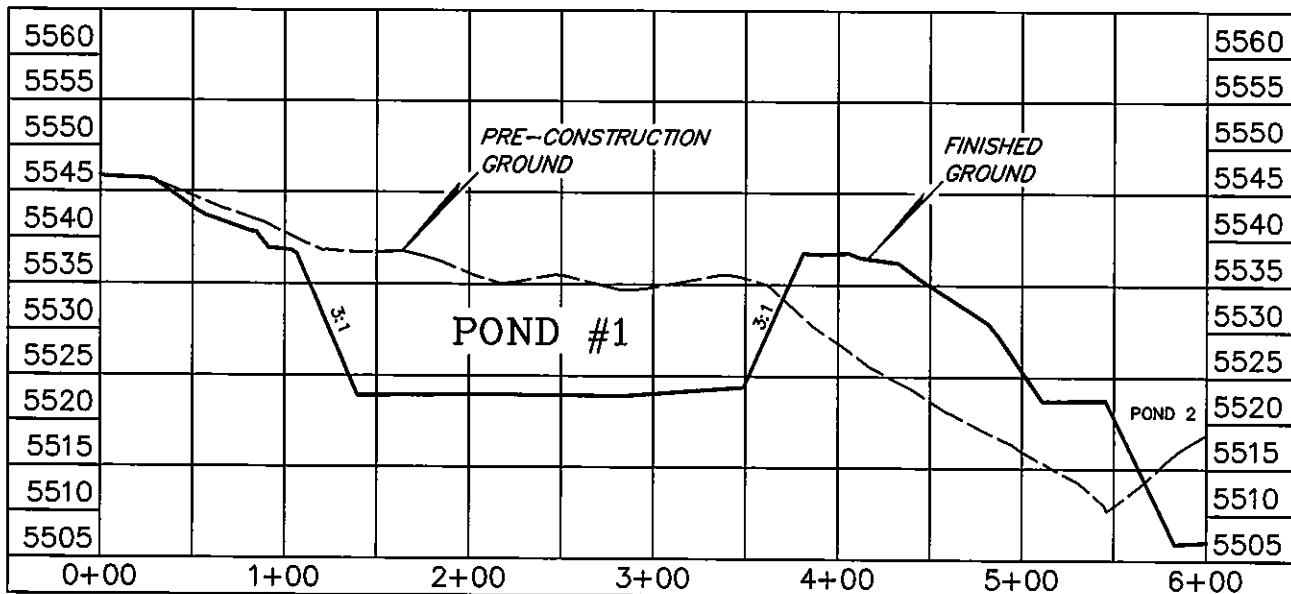
SECTION A-A

100' 50' 0'
SCALE: 1"=100' (HORIZONTAL)



SECTION B-B

20' 10' 0'
SCALE: 1"=20' (VERTICAL)



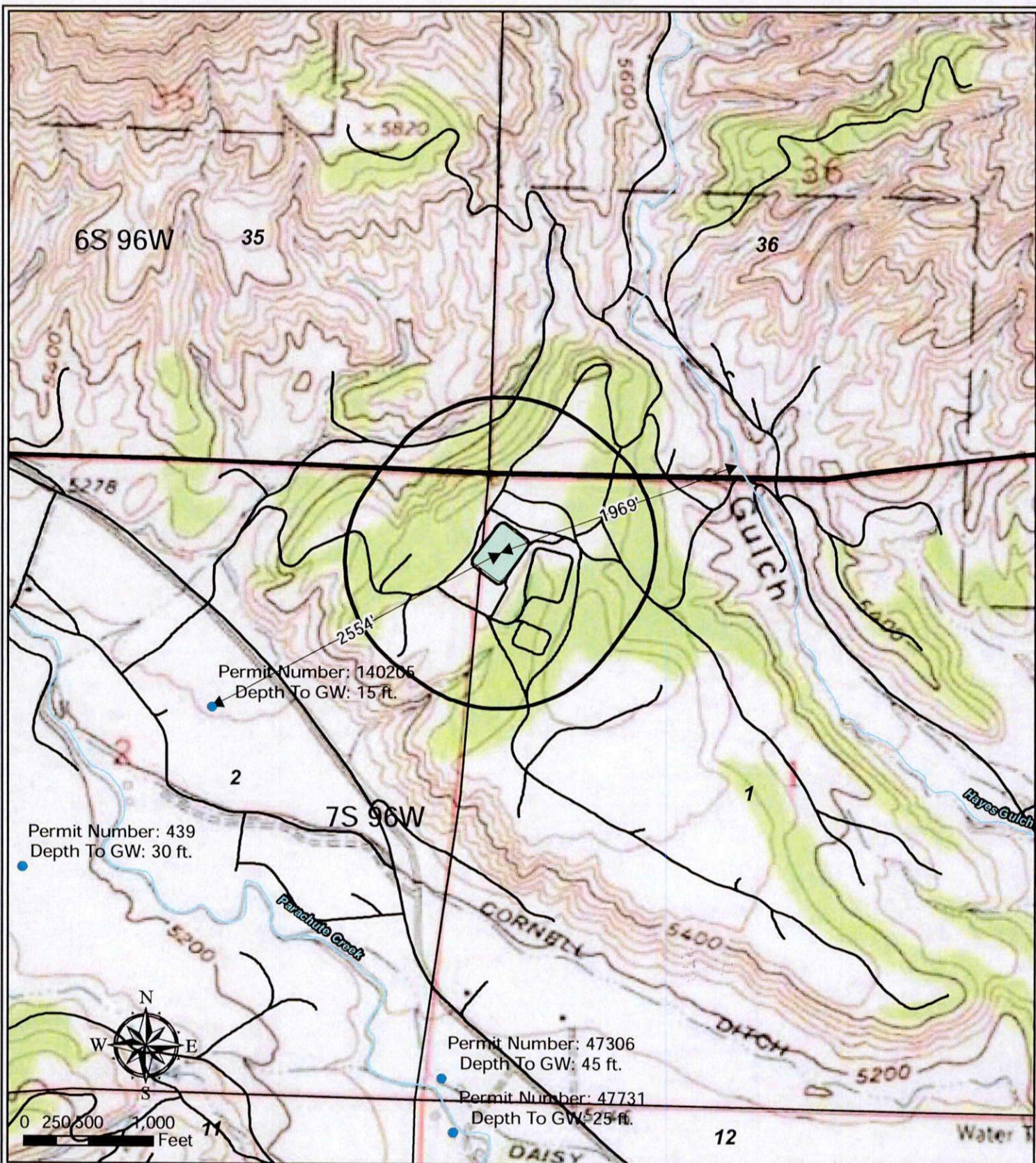
POND #1:

CAPACITY (FULL):

218,455 BBLs (45,427 CUBIC YARDS)

CAPACITY (WITH 2' FREEBOARD):

182,561 BBLs (37,963 CUBIC YARDS)



Legend

- Water Well
- 1000' Buffer
- Stream
- Produced Water Pond
- ↔ Distance Vector
- Existing Road

Williams Production RMT

Produced Water Pond Hydrology Map
T7S R96W, Section 1



590'

Sensitive Area Determination Checklist

Williams Production RMT Company		
Person(s) conducting inspection	Mark E. Mumby	11/8/2010
Site Information		
Location:	Grand Valley Pond 1	Time:
Type of Facility:	Produced Water Storage Pond	
Environmental Conditions		
Temperature (°F)		

Has the proposed, new or existing location been designated as a sensitive area?

☐ Yes ☒ No

SURFACE WATER

1. Are there any surface water features or SWSAs adjacent to or within ¼ mile of the proposed/new or existing facility?

☒ Yes ☐ No

If yes, list type of surface water feature(s), i.e. rivers, creeks, streams, seeps, springs, wetlands: Two unnamed ephemeral drainages

If yes, describe location relative to facility: One of the unnamed ephemeral drainages is located 1,031 feet northwest of the existing facility. The second unnamed ephemeral drainage is located ~763 feet south southeast of the existing facility

2. Could a potential release from the facility reach surface water features?

☐ Yes ☒ No

If yes, describe the pathway a release from the facility would likely follow to determine if the potential to impact surface water is high or low.

3. Is the potential to impact surface water from a facility release high or low?

☐ High ☒ Low



GROUNDWATER

1. Will the proposed/new or existing facility have any pits which will contain hydrocarbons and chlorides or other E&P wastes?
☒ Yes ☐ No
If yes, List the pit type(s): Produced Water Storage Pond
2. Is the site of the proposed facility underlain by an unconfined aquifer or recharge zone?
☐ Yes ☒ No
3. Is the hydraulic conductivity of the underlying soil or geologic material $\leq 1.0 \times 10^{-7}$ cm/sec?
☐ Yes ☒ No
4. Is the proposed facility located within 1/8 mile of a domestic water well or 1/4 mile of a public water supply well which would use the same aquifer?
☐ Yes ☒ No
5. Is the proposed facility located within a 100 year floodplain?
☐ Yes (*Sensitive Area*) ☒ No (*If no, proceed to question #6.*)
6. Is the depth to groundwater known?
☐ Yes (*If yes, follow instructions provided in 5(a) of this section.*)
☒ No (*If no, follow instructions provided in 5(b) of this section.*)
 - (a) If yes, could a potential release from the proposed facility reach groundwater?
☐ Yes ☐ No
If yes, explain:
 - (b) If no:
 - (i) Evaluate surrounding soils, topography, and vegetation which may suggest the presence of shallow groundwater.
 - (ii) Gather information from surrounding well data in order to determine a depth to groundwater, i.e. State Engineers Office.
 - (iii) Drill a soil boring to determine depth to groundwater or
 - (iv) Model hydro geologic conditions to determine if the potential to impact groundwater is high or low.
7. Is the potential to impact ground water from the facility in the event of a release high or low?
☐ High ☒ Low

W-1000

Additional Comments:

There are two surface water features that were indentified during a previous site visit and desk top review. The surface water features were identified as unnamed ephemeral drainages. The ephemeral drainage located to the northwest of the existing facility is separated from the facility by a ridgeline which would eliminate the potential for a release to impact this drainage feature. The second ephemeral drainage is shown on the older topographical maps to be within 500 feet of the existing facility. By COGCC decision this would place the facility within a sensitive area. However, with the construction of the three produced water ponds; the ground surface has been recontoured and the drainage as it is shown on the topographical map no longer exists. The distance to the remnants of the drainage to the south southeast of the facility is now approximately 763 feet away. A potential release if it were to migrate out of the pond would tend to migrate to the flat lying areas adjacent to the pond. Therefore the potential for a release to reach the remnants of the ephemeral drainage to the south of the facility would be practically non-existent.

Groundwater data from the state engineer's office indicates that there are no permitted water wells within ¼ mile of the existing facility. The closest permitted water well is 2,554 feet to the southwest of the facility. Based on observations during a previous site visit, field data collected from recent site investigation activities, and pit construction, it appears that the depth to groundwater, if present, in the immediate vicinity of the facility is at a depth greater than 50 feet. The pond is also lined further reducing any potential to impact groundwater.

Based on the information collected during the previous site investigation and desktop review, the potential to impact surface water features has been deemed to be low to practically non-existent high. Based on the topographical setting of the proposed facility the potential to impact ground water has been deemed low as well. Therefore the proposed facility should be designated as being in a non-sensitive area.

Inspector Signature(s): MEL E. Munt Date: 11/8/2010

LINER SPECIFICATIONS

High Density Polyethylene Smooth Liner™



Product Data

Property	Test Method	Values				
Thickness (min. ave.), mil (mm)	ASTM D5199*	30 (.75)	40 (1.0)	60 (1.5)	80 (2.0)	100 (2.5)
Thickness (lowest indiv.), mil (mm)	ASTM D5199*	27 (.68)	36 (.90)	54 (1.35)	72 (1.80)	90 (2.25)
*The thickness values may be changed due to project specifications (i.e., absolute minimum thickness)						
Density, g/cc, minimum	ASTM D792, Method B	0.94	0.94	0.94	0.94	0.94
Tensile Properties (ave. both directions)	ASTM D6693, Type IV					
Strength @ Yield (min. ave.), lb/in width (N/mm)	2 in/minute	66 (11.6)	88 (15.4)	132 (23.1)	176 (30.8)	220 (38.5)
Elongation @ Yield (min. ave.), % (GL=1.3in)	5 specimens in each direction	13	13	13	13	13
Strength @ Break (min. ave.), lb/in width (N/mm)		120 (21)	160 (28)	240 (42)	320 (56)	400 (70)
Elongation @ Break (min. ave.), % (GL=2.0in)		700	700	700	700	700
Tear Resistance (min. ave.), lbs. (N)	ASTM D1004	23 (102)	30 (133)	45 (200)	60 (267)	72 (320)
Puncture Resistance (min. ave.), lbs. (N)	ASTM D4833	60 (267)	80 (356)	120 (534)	160 (712)	190 (845)
Carbon Black Content (range in %)	ASTM D4218	2 - 3	2 - 3	2 - 3	2 - 3	2 - 3
Carbon Black Dispersion (Category)	ASTM D5596	Only near spherical agglomerates for 10 views: 9 views in Cat. 1 or 2, and 1 view in Cat. 3				
Stress Crack Resistance (Single Point NCTL), hours	ASTM D5397, Appendix	300	300	300	300	300
Oxidative Induction Time, minutes	ASTM D3895, 200°C, 1 atm O ₂	≥100	≥100	≥100	≥100	≥100
Melt Flow Index, g/10 minutes	ASTM D1238, 190°C, 2.16kg	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Oven Aging	ASTM D5721	80	80	80	80	80
with HP OIT, (% retained after 90 days)	ASTM D5885, 150°C, 500psi O ₂					
UV Resistance	GRI GM11	20hr. Cycle @ 75°C/4 hr. dark condensation @ 60°C				
with HP OIT, (% retained after 1600 hours)	ASTM D5885, 150°C, 500psi O ₂	50	50	50	50	50

These product specifications meet or exceed GRI's GM13

Supply Information (Standard Roll Dimensions)

Thickness		Width		Length		Area (approx.)		Weight (average)	
mil	mm	ft	m	ft	m	ft ²	m ²	lbs	kg
30	.75	23	7	803.8	245	18,461	1,715	3,050	1,383
40	1.0	23	7	649.6	198	14,919	1,386	3,075	1,395
60	1.5	23	7	419.9	128	9,645	896	3,006	1,364
80	2.0	23	7	321.5	98	7,384	686	3,067	1,391
100	2.5	23	7	249.3	76	5,727	532	3,006	1,364

Notes:

All rolls are supplied with two slings. All rolls are wound on a 6 inch core. Special roll lengths are available on request.
All roll lengths and widths have a tolerance of ±1%

All information, recommendations and suggestions appearing in this literature concerning the use of our products are based upon tests and data believed to be reliable; however, it is the users responsibility to determine the suitability for their own use of the products described herein. Since the actual use by others is beyond our control, no guarantee or warranty of any kind, expressed or implied, is made by Agru/America as to the effects of such use or the results to be obtained, nor does Agru/America assume any liability in connection herewith. Any statement made herein may not be absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. Nothing herein is to be construed as permission or as a recommendation to infringe any patent.

500 Garrison Road, Georgetown, South Carolina 29440

843-546-0600

800-373-2478

Fax: 843-527-2738

email: salesmkg@agruamerica.com

www.agruamerica.com

© Agru America, Inc. 2008

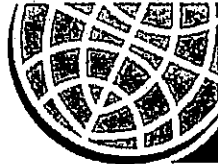
LINER TEST



Installation Reports

for

Hayes Evap Pit



Daily Installation Report

Date: 5/29/09
Project: HAYES EVAP PIT POND 1
Owner: WILLIAMS PRODUCTION
Engineer:
Contractor: MB CONSTRUCTION
Installation Supervisor: ROGER BARNES
Material: 60 MIL HDT, 80Z TEXTILE

Fusion Weld X Extrusion Weld

DAILY SEAM STRENGTH TEST

Date of Test	Time of Test	Ambient Air Temp.	Unit Temp.	Pre-Heat Temp.	Unit Speed	Peel Value Inch/Inch	Slicer Value	Welding Tech.	Unit No.	Pass/Fail
5/29/09	10:30	70	800		6.5	134/133	198	JH	1548	P
						134/132	200			
						129/125				
						/				
5/29/09	10:45	70	800		7.0	132/142	189	RG	0033	P
						125/132	201			
						123/126				
						/				
						/				
						/				
						/				
						/				

DAILY RECAP

Quantity Installed	Weather	Contract Labor Hours	Equipment Maintenance / Greasing
	80&SUNNY	0	T-300

Comments: ONSITE AT 7:00AM LAID TEXTILE UNTIL 10:30. STARTED LINER, LAID LINER TILL 4:30 BECAUSE IT STARTED TO RAIN AND THE WIND WAS BLOWING HARD. SANDBAGGED TOE, SOUTH TIE IN AND LAST PANEL. PICKED UP TRASH. I HAVE 2 HRS OF LAYOUT LEFT AND THE POND WILL BE BLACKED OUT.

CLI / CLEARWATER

1062 Singing Hills Road Parker, Colorado 80138 / 1-800-524-8672 / 303-841-2022 / Fax 303-841-5780 / www.coloradolining.com



Daily Installation Report

Date: 5/30/09
Project: HAYES EVAP PIT POND 1
Owner: WILLIAMS PRODUCTION
Engineer:
Contractor: MB CONSTRUCTION
Installation Supervisor: ROGER BARNES
Material: 60 MIL HDT, 80Z TEXTILE

Fusion Weld X Extrusion Weld X

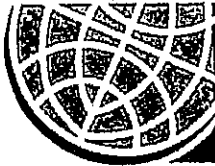
DAILY SEAM STRENGTH TEST

Date of Test	Time of Test	Ambient Air Temp.	Unit Temp.	Pre-Heat Temp.	Unit Speed	Peel Value <small>Inside/Outside</small>	Shear Value	Welding Tech.	Unit No.	Pass/Fail
5/30/09	7:00	57	800		6.4	133/138	187	JH	1548	P
						134/130	187			
						129/123				
5/30/09	7:00	57	800		7.0	132/141	162	RG	0033	P
						133/129	161			
						130/131				
5/30/09	8:40	63	800		7.0	121/129	155	RG	0033	P
						116/115	155			
						123/122				
5/30/09	10:20	75	500	475		128/	142	SS	1549	P
						124/	135			
						132/				

DAILY RECAP

Quantity Installed	Weather	Contract Labor Hours	Equipment Maintenance / Greasing
	80&SUNNY&	0	T-300

Comments: PULLED IN NORTH WALL BY 9:30. SANDBAGGED TIE IN. RAN SOUTH TIE IN-AIRTESTED, REPAIRED, & V-BOXED. STAGED ROLLS FOR POND# 2. PICKED UP TRASH. SHOULD BE DONE WITH POND #1 BY SUNDAY AM. WE'RE GOING TO PULL IN TEXTILE IN POND #2 FOR THE REST OF SUNDAY.



Daily Installation Report

Date: 5/31/09
Project: HAYES EVAP PIT POND 1
Owner: WILLIAMS PRODUCTION
Engineer:
Contractor: MB CONSTRUCTION
Installation Supervisor: ROGER BARNES
Material: 60 MIL HDT, 8 OZ TEXTILE

Fusion Weld X Extrusion Weld X

DAILY SEAM STRENGTH TEST

Date of Test	Time of Test	Ambient Air Temp.	Unit Temp.	Pre-Heat Temp.	Unit Speed	Peel Value Initial/Endile	Shear Value	Welding Tech.	Unit No	Pass/Fail
5/31/09	7:00	58	800		6.5	135/134	170	RG	0033	P
						124/126	177			
						131/130				
5/31/09	7:00	58	800			127/113	172	JH	1548	P
						125/138	177			
						131/120				
						/				
5/31/09	8:30	65	500	450		108/	146	SS	1549	P
						94/	145			
						93/				
						/				
						/				

DAILY RECAP

Quantity Installed	Weather	Contract Labor Hours	Equipment Maintenance / Greasing
0	70&SUNNY	0	T-300

Comments: FINISHED POND #1. RAN TIE IN AND AIRTESTED. DID REPAIRS AND V-BOXED. MOVED EXTRA SANDBAGS OUT AND PICKED UP TRASH

CLI / CLEARWATER

1062 Singing Hills Road Parker, Colorado 80138 / 1-800-524-8672 / 303-841-2022 / Fax 303-841-5780 / www.coloradofining.com



Quality Control Air Testing

Project: HAYES EVAP PIT POND 1
 Owner: WILLIAMS PRODUCTION
 Engineer:
 Contractor: MB CONSTRUCTION
 Supervisor: ROGER BARNES
 Material: 60 MIL HD 8OZ TEXTILE

Date of Test	Start Time	End Time	Seam No.	Seam Length	A C	A L	V B	S T	Pass/Fail	Welding Technician	Welder No.	Welder Speed	Welder Temp.
5/30/09	10:36	10:41	6-8	0-28	X				35-34	SOUTH TIE IN JH	1548	7.4	800
"	10:54	10:59	6-7	28-33	X				32-32	"	"	"	"
"	10:25	10:30	4-7	33-65	X				32-32	"	"	"	"
"	10:15	10:20	1-3	65-87	X				32-30	JH	1548	7.4	800
"	10:20	10:25	1-2	87-111	X				31-30	SOUTH TIE IN CONT. RG	0033	7.0	800
"	10:15	10:20	1-5	111-133	X				32-31	"	"	"	"
"	10:07	10:12	9-11	133-162	X				30-29	"	"	"	"
"	9:58	10:03	10-12	162-196	X				30-29	SOUTH TIE IN END RG	0033	7.0	800
"	9:58	10:03	11-12	28'	X				33-32	W WALL TO SOUTH TIE IN RG	0033	8.0	800
"	10:07	10:12	1-11	55'	X				32-32	" JH	1548	7.4	800
"	10:35	10:40	7-8	27'	X				35-35	E WALL TO S TIE IN RG	0033	7.0	800
"	10:25	10:30	1-7	55'	X				32-32	" JH	1548	7.4	800
"	11:00	11:05	1-13	75-94	X				30-29	FLOOR TO CROSS JH	1548	7.4	800
"	11:05	11:10	1-14	94-178	X				32-32	"	"	"	"
5/30/09	10:30	10:35	6-4	30	X				35-34	S WALL RG	0033	7.0	800
"	10:47	10:52	4-3	51	X				37-36	" RG	"	"	"
"	10:15	10:20	3-2	51	X				35-35	JH	1548	7.4	800
"	10:15	10:20	2-5	52	X				35-34	JH	"	"	"
"	10:07	10:12	5-9	52	X				33-33	JH	"	"	"
"	10:06	10:11	9-10	31	X				31-30	RG	0033	7.0	800
5/30/09	10:10	10:15	1-14	82	X				33-33	JH	1548	7.4	800

AC=Air Channel Test AL=Air Lance Test VB=Vacuum Box Test ST=Spark Test



Quality Control Air Testing

Project: HAYS EVAP PIT POND 1
 Owner: WILLIAMS PRODUCTION
 Engineer:
 Contractor: MB CONSTRUCTION
 Supervisor: ROGER BARNES
 Material: 60 MIL HD 80Z TEXTILE

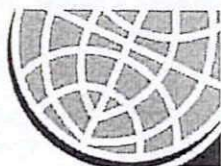
Date of Test	Start Time	End Time	Seam No.	Seam Length	A C	A L	V B	S T	Pass/Fail	Welding Technician	Welder No.	Welder Speed	Welder Temp.
5/30/09	11:00	11:05	1-13	82-102	X				30-29	FLOOR JH	1542	7.4	800
"	11:00	11:05	1-13	102-174	X				30-29	"	"	"	"
"	"	"	14-15	0-63	X				30-29	" RG	0033	8.0	800
"	"	"	14-15	63-82	X				30-29	"	"	"	"
"	11:07	11:12	13-15	82-175	X				35-35	"	"	"	"
"	11:00	11:05	13-14	23	X				35-34	CROSS RG	0033	7.0	800
"	11:55	12:00	15-17	51	X				31-30	FLOOR JH	1542	7.4	800
"	11:40	11:45	15-16	51-176	X				35-34	" JH	1542	7.4	800
"	11:37	11:42	17-18	51	X				35-34	RG	0033	7.0	800
"	"	"	16-18	51-73	X				35-34	"	"	"	"
"	"	"	16-18	73-176	X				35-34	"	"	"	"
"	11:26	11:31	16-17	23	X				35-35	CROSS RG	"	"	"
"	11:45	11:50	18-20	53	X				35-34	FLOOR JH	1542	7.4	800
"	"	"	18-19	53-176	X				35-35	"	"	"	"
"	11:58	12:03	19-20	23	X				31-30	CROSS RG FLOOR END	0033	7.0	800
5/31/09	8:10	8:15	24-27	0-6	X				30-29	N TIE IN RG	0033	7.0	800
"	8:15	8:20	24-26	6-22	X				34-33	"	"	"	"
"	8:25	8:30	23-26	22-38	X				30-30	"	"	"	"
"	8:28	8:33	23-20	38-57	X				35-35	"	"	"	"
"	8:37	8:42	22-19	57-88	X				32-32	"	"	"	"
"	8:55	9:00	21-19	88-111	X				35-34	N TIE IN CONT. JH	1542	7.4	800
AC=Air Channel Test AL=Air Lance Test VB=Vacuum Box Test ST=Spark Test													



Quality Control Air Testing

Project: HAYS EVAP PIT POND 1
Owner: WILLIAMS PRODUCTION
Engineer:
Contractor: MB CONSTRUCTION
Supervisor: ROGER BARNES
Material: 60 MIL HD 80Z TEXTILE

[illegible]



Field Seam Destructive Test

Project: HAYES EVAP PIT POND 1
Owner: WILLIAMS PRODUCTION
Engineer:
Contractor: MB CONSTRUCTION
Supervisor: ROGER BARNES
Material: 60 MIL HD 80Z TEXTILE

[illegible]



Quality Control Air Testing

Project: HAYES EVAP PIT POND 1
 Owner: WILLIAMS PRODUCTION
 Engineer:
 Contractor: MB CONSTRUCTION
 Supervisor: ROGER BARNES
 Material: 60 MIL HD 80Z TEXTILE

Date of Test	Start Time	End Time	Seam No.	Seam Length	A C	A L	V B	S T	Pass/Fail	Welding Technician	Welder No.	Welder Speed	Welder Temp.
5/30/09	10:36	10:41	6-8	0-28	X				35-34	SOUTH TIE IN JH	1548	7.4	800
"	10:54	10:59	6-7	28-33	X				32-32	"	"	"	"
"	10:25	10:30	4-7	33-65	X				32-32	"	"	"	"
"	10:15	10:20	1-3	65-87	X				32-30	JH	1548	7.4	800
"	10:20	10:25	1-2	87-111	X				31-30	SOUTH TIE IN CONT. RG	0033	7.0	800
"	10:15	10:20	1-5	111-133	X				32-31	"	"	"	"
"	10:07	10:12	9-11	133-162	X				30-29	"	"	"	"
"	9:58	10:03	10-12	162-196	X				30-29	SOUTH TIE IN END RG	0033	7.0	800
"	9:58	10:03	11-12	28'	X				33-32	W WALL TO SOUTH TIE IN RG	0033	8.0	800
"	10:07	10:12	1-11	55'	X				32-32	" JH	1548	7.4	800
"	10:35	10:40	7-8	27'	X				35-35	E WALL TO S TIE IN RG	0033	7.0	800
"	10:25	10:30	1-7	55'	X				32-32	" JH	1548	7.4	800
"	11:00	11:05	1-13	75-94	X				30-29	FLOOR TO CROSS JH	1548	7.4	800
"	11:05	11:10	1-14	94-178	X				32-32	"	"	"	"
5/30/09	10:30	10:35	6-4	30	X				35-34	S WALL RG	0033	7.0	800
"	10:47	10:52	4-3	51	X				37-36	" RG	"	"	"
"	10:15	10:20	3-2	51	X				35-35	JH	1548	7.4	800
"	10:15	10:20	2-5	52	X				35-34	JH	"	"	"
"	10:07	10:12	5-9	52	X				33-33	JH	"	"	"
"	10:06	10:11	9-10	31	X				31-30	RG	0033	7.0	800
5/30/09	10:10	10:15	1-14	82	X				33-33	JH	1548	7.4	800

AC=Air Channel Test AL=Air Lance Test VB=Vacuum Box Test ST=Spark Test

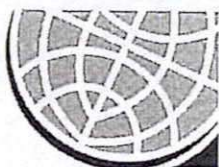


Quality Control Air Testing

Project: HAYS EVAP PIT POND 1
 Owner: WILLIAMS PRODUCTION
 Engineer:
 Contractor: MB CONSTRUCTION
 Supervisor: ROGER BARNES
 Material: 60 MIL HD 8OZ TEXTILE

Date of Test	Start Time	End Time	Seam No.	Seam Length	A C	A L	V B	S T	Pass/Fail	Welding Technician	Welder No.	Welder Speed	Welder Temp.
5/30/09	11:00	11:05	1-13	82-102	X				30-29	FLOOR JH	1542	7.4	800
"	11:00	11:05	1-13	102-174	X				30-29	"	"	"	"
"	"	"	14-15	0-63	X				30-29	" RG	0033	8.0	800
"	"	"	14-15	63-82	X				30-29	"	"	"	"
"	11:07	11:12	13-15	82-175	X				35-35	"	"	"	"
"	11:00	11:05	13-14	23	X				35-34	CROSS RG	0033	7.0	800
"	11:55	12:00	15-17	51	X				31-30	FLOOR JH	1542	7.4	800
"	11:40	11:45	15-16	51-176	X				35-34	" JH	1542	7.4	800
"	11:37	11:42	17-18	51	X				35-34	RG	0033	7.0	800
"	"	"	16-18	51-73	X				35-34	"	"	"	"
"	"	"	16-18	73-176	X				35-34	"	"	"	"
"	11:26	11:31	16-17	23	X				35-35	CROSS RG	"	"	"
"	11:45	11:50	18-20	53	X				35-34	FLOOR JH	1542	7.4	800
"	"	"	18-19	53-176	X				35-35	"	"	"	"
"	11:58	12:03	19-20	23	X				31-30	CROSS RG FLOOR END	0033	7.0	800
5/31/09	8:10	8:15	24-27	0-6	X				30-29	N TIE IN RG	0033	7.0	800
"	8:15	8:20	24-26	6-22	X				34-33	"	"	"	"
"	8:25	8:30	23-26	22-38	X				30-30	"	"	"	"
"	8:28	8:33	23-20	38-57	X				35-35	"	"	"	"
"	8:37	8:42	22-19	57-88	X				32-32	"	"	"	"
"	8:55	9:00	21-19	88-111	X				35-34	N TIE IN CONT. JH	1542	7.4	800

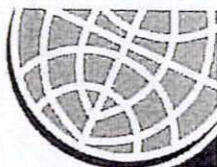
AC=Air Channel Test AL=Air Lance Test VB=Vacuum Box Test ST=Spark Test



Quality Control Air Testing

Project: HAYS EVAP PIT POND 1
Owner: WILLIAMS PRODUCTION
Engineer:
Contractor: MB CONSTRUCTION
Supervisor: ROGER BARNES
Material: 60 MIL HD 8OZ TEXTILE

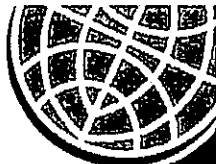
[illegible]



Field Seam Destructive Test

Project: HAYES EVAP PIT POND 1
Owner: WILLIAMS PRODUCTION
Engineer:
Contractor: MB CONSTRUCTION
Supervisor: ROGER BARNES
Material: 60 MIL HD 80Z TEXTILE

[illegible]



Panel Placement Log

Project: HAYES EVAP PIT POND 1
Owner: WILLIAMS PRODUCTION
Engineer:
Contractor: MB CONSTRUCTION
Supervisor: ROGER BARNES
Material: 60 MIL HD 80Z TEXTILE

Panel No.	Roll Number	Date	Material Type	Width	Length
1	0102	5/29/09	60 MIL HD	23	188'
2	"	"	"	"	57'
3	"	"	"	"	58'
4	"	"	"	"	57'
5	"	"	"	"	60'
6	0104	"	"	"	37'
7	"	"	"	"	62'
8	"	"	"	"	33'
9	"	"	"	"	59'
10	"	"	"	"	36'
11	"	"	"	"	63'
12	"	"	"	"	27'
13	"	"	"	"	98'
14	9705	"	"	"	88'
15	"	"	"	"	186'
16	"	"	"	"	134'
17	0103	"	"	"	55'
18	"	"	"	"	185'
19	"	"	"	"	133'
20	9754	5/29/09	"	"	56'
21	"	5/30/09	"	"	55'
22	"	"	"	"	54'
23	"	"	"	"	54'
24	"	"	"	"	36'
*P-24P25	"	5/30/09	60 MIL HD	23	12'

CLI / CLEARWATER

1062 Singing Hills Road Parker, Colorado 80138 / 1-800-524-8672 / 303-841-2022 / Fax 303-841-5780 / www.coloradolining.com

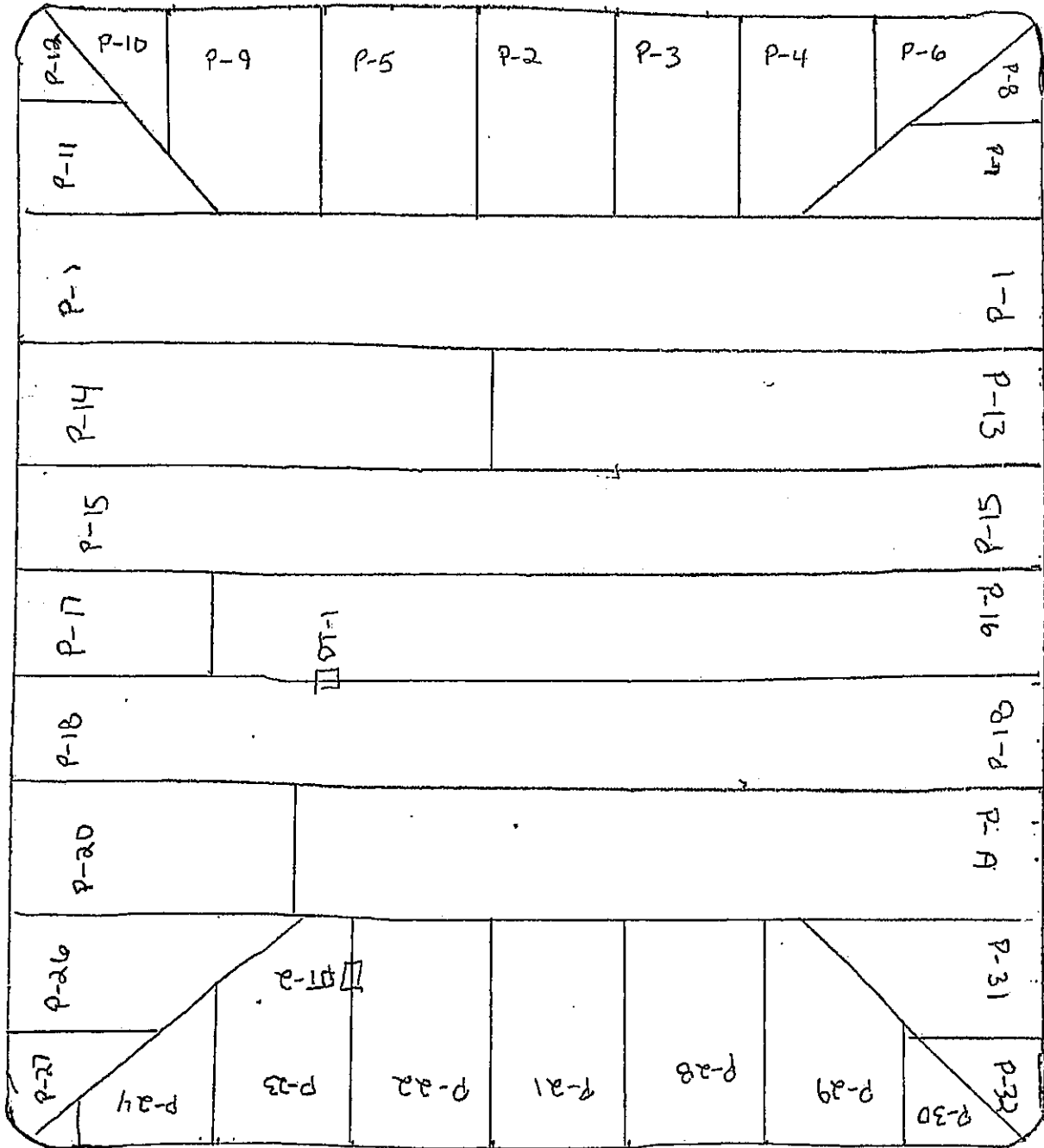
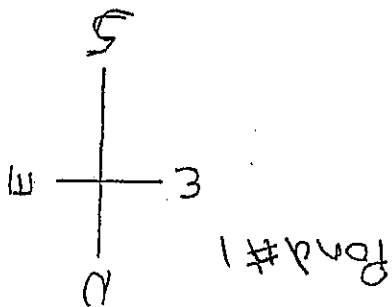


Panel Placement Log

Project: HAYES EVAP PIT POND 1
Owner: WILLIAMS PRODUCTION
Engineer:
Contractor: MB CONSTRUCTION
Supervisor: ROGER BARNES
Material: 60 MIL HD 80Z TEXTILE

[illegible]

Hay's Evap Pit





Sub grade Acceptance

Date: 6/17/09

Project: HAYES EVAP PIT
Owner: WILLIAMS PRODUCTION
Engineer:
Contractor: MB CONSTRUCTION
Installation Supervisor: ROGER BARNES
Material: 60 MIL HDT, 8 OZ TEXTILE

Is surface acceptable for placement of geomembranes? Yes ☒ No ☐

Comments _____

Date: 6/17/09

Accepted By Representative of Owner/Owner (Signature) _____

I certify that I am a representative with the authority to provide this acceptance and recognize that if this is not a true statement that I will be held personally responsible for the integrity of the inspection.

Print Name/Title: RICHARD TENINTE SUPERVISOR

Company: MB

Witnessed By Representative of CLC (Signature) _____

Print Name/Title: ROGER BARNES SUPER

This document only applies to the acceptability of the surface conditions for the installation of the geosynthetic products. Colorado Lining Construction (CLC) does not accept responsibility for anchor trench elevation or design, elevation points for construction, sub-grade compaction, moisture content of neither the sub-grade nor the surface maintenance during deployment. The structural integrity of the sub-grade and maintenance of these conditions are the responsibility of the owner, engineer or contractor. Furthermore, any incidental damage to the liner or seams (e.g. groundwater, gases, cover soil placement and sub-grade movement) during or after the installation is not covered by any warranty expressed or implied and the design, engineering and construction are the responsibility of the owner, engineer and/or contractor.

CORPORATE OFFICE

1062 Singing Hills Road Parker, Colorado 80138 800 524 8672 303 841 2022 Fax 303 841 5780 www.coloradolining.com



Geomembrane Installation Approval

Project: HAYES EVAP PIT
Owner: WILLIAMS PRODUCTION
Engineer:
Contractor: MB CONSTRUCTION
Supervisor: ROGER BARNES
Material: 60 MIL HDT, 8 OZ TEXTILE

The Geomembrane on this project has been installed, inspected and tested in accordance with Industry Standards and Manufacturer recommendations.

Date:

6/17/09

Accepted By:
(Signature)

Richard Teninty

Print Name/Title:

RICHARD TENINTY

Company:

MB

Comments:

**All warranties to begin on the date of completion.
Warranties to be issued upon receipt of final payment**

CLI / CLEARWATER

1062 Singing Hills Road Parker, Colorado 80138 / 1-800-524-8672 / 303-841-2022 / Fax 303-841-5780 / www.coloradolining.com

THIS MEMORANDUM

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

NAME OF CARRIER

PICK UP @ PLANT

CARRIER'S NO.

DATE

B/L NO.

001472

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said carrier (the word carrier is used throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to the consignee at the place of destination, if not on its route, and as to each party at any time interested in all or a portion of said property, that every service to be performed hereunder, shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date of issue of this Bill of Lading, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. If this is a rail or a rail-water shipment, it shall be subject to the applicable rail or rail-water tariff. The shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff, and that he has read and understood the said terms and conditions and he hereby agrees to by the shipper and accepted for himself and his assigns.

FROM:
SHIPPER
(ORIGIN)



AGRU/AMERICA, INC.
2000 East Newlands Drive
Fernley, NV 89408
(775)835-8282

EMERGENCY RESPONSE PHONE NO.

TO:
CONSIGNEE

STREET

DESTINATION

COLORADO LINING COMPANY
CUSTOMER TO PICK UP AT PLANT
DESTINATION: PARACHUTE, CO
Resale Certificate on File
USA
DAN BOYLE-303-841-2022

ZIP

DELIVERING
CARRIER

ROUTE

VEHICLE
NUMBER

NO. PACKAGES	+ HM	KIND OF PACKAGE, DESCRIPTION OF ARTICLES SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (SUBJECT TO CORR.)	CLASS OR RATE	✓	CHARGES (FOR CARRIER USE ON
154,317		7 METER SMTH LINER HD 60MIL BLK	46,367			

Item Key	Roll Number	Quantity
L-HD-SMTH-060-7M	920109-09	9,645
L-HD-SMTH-060-7M	920110-09	9,645
L-HD-SMTH-060-7M	920111-09	9,645
L-HD-SMTH-060-7M	920112-09	9,645
L-HD-SMTH-060-7M	920113-09	9,645
L-HD-SMTH-060-7M	920114-09	9,645
L-HD-SMTH-060-7M	920115-09	9,645
L-HD-SMTH-060-7M	920116-09	9,645
L-HD-SMTH-060-7M	920117-09	9,645
L-HD-SMTH-060-7M	920118-09	9,645
L-HD-SMTH-060-7M	920119-09	9,645
L-HD-SMTH-060-7M	920120-09	9,645
L-HD-SMTH-060-7M	920121-09	9,645
L-HD-SMTH-060-7M	920122-09	9,645
L-HD-SMTH-060-7M	920123-09	9,645
L-HD-SMTH-060-7M	920224-09	9,645

Total Weight: 46,367 LB

Total Units: 16-0113

Order No.: 12123 Order Date: 05/06/09 Request Date: 05/06/09

Location: NV P.O. No.: 24875

EMIT C.O.D. TO:



AGRU/AMERICA, INC.
2000 East Newlands Drive
Fernley, NV 89408
(775)835-8282

C.O.D. Amt \$

C.O.D. FEE

☐ Prepaid
☒ Collect \$

If the shipment moves between two ports by a carrier by sea, the law requires that the bill of lading shall state the weight of the property as furnished by the carrier's or shipper's weight.

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL
CHARGES \$

Shipper's imprint in lieu of stamp; not a part of bill of lading provided by the Interstate Commerce Commission.

\$ per

(Signature of Consignor)

Freight charges are PREPAID unless marked collect.

☐ Check box if charges are Col

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

HIS MEMORANDUM

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

PICK UP @ PLANT

07/18/2009

B/L NO.

001473

NAME OF CARRIER

CARRIER'S NO.

DATE

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading.

The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said carrier (the word carrier is used throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver the property on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or a portion of the property, that every service to be performed hereunder, shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date of issue of this bill of lading, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. The shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff to which the property is consigned, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

FROM:
SHIPPER
(ORIGIN)

AGRU/AMERICA, INC.
2000 East Newlands Drive
Fernley, NV 89408
(775)835-8282

TO:
CONSIGNEE

COLORADO LINING COMPANY
CUSTOMER TO PICK UP AT PLANT
DESTINATION: PARACHUTE, CO
Resale Certificate on File
USA
DAN BOYLE-303-841-2022

STREET

DESTINATION

ZIP



EMERGENCY RESPONSE PHONE NO.

DELIVERING
CARRIER

ROUTE

VEHICLE
NUMBER

NO. PACKAGES	+ HM	KIND OF PACKAGE, DESCRIPTION OF ARTICLES SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (SUBJECT TO CORR.)	NUMBER CLASS OR RATE	✓	CHARGES (FOR CARRIER USE ON
154,317 264		7 METER SMTH LINER HD 60MIL BLK WELD ROD MFG BLACK HDPE 5MM	46,367 264			
		Item Key	Roll Number	Quantity		
		-----	-----	-----		
		L-HD-SMTH-060-7M	919747-09	9,645		
		L-HD-SMTH-060-7M	919748-09	9,645		
		L-HD-SMTH-060-7M	919749-09	9,645		
		L-HD-SMTH-060-7M	919750-09	9,645		
		L-HD-SMTH-060-7M	919751-09	9,645		
		L-HD-SMTH-060-7M	919752-09	9,645		
		L-HD-SMTH-060-7M	919753-09	9,645		
		L-HD-SMTH-060-7M	919754-09	9,645		
		L-HD-SMTH-060-7M	920101-09	9,645		
		L-HD-SMTH-060-7M	920102-09	9,645		
		L-HD-SMTH-060-7M	920103-09	9,645		
		L-HD-SMTH-060-7M	920104-09	9,645		
		L-HD-SMTH-060-7M	920105-09	9,645		
		L-HD-SMTH-060-7M	920106-09	9,645		
		L-HD-SMTH-060-7M	920107-09	9,645		
		L-HD-SMTH-060-7M	920108-09	9,645		
		Total Weight: 46,631 LB				
		Total Units: 16045/125000				
		Order No.: 12123 Order Date: 05/06/09 Request Date: 05/06/09				
		Location: NV P.O. No.: 24875				

EMIT C.O.D. TO:



AGRU/AMERICA, INC.
2000 East Newlands Drive
Fernley, NV 89408
(775)835-8282

C.O.D. Amt \$

C.O.D. FEE

☐ Prepaid
☒ Collect \$

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state the weight of the property as "carrier's or shipper's weight".

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ per _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL
CHARGES \$

Freight charges are PREPAID unless marked collect. ☐ Check box if charges are Co

Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

The shipper certifies that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

SOIL TEST

Lambert and Associates

CONSULTING GEOTECHNICAL ENGINEERS AND MATERIAL TESTING

DAILY FIELD REPORT - FIELD DENSITY TESTS

Date: <i>Thursday, May/28/09</i>	Arrive Time: <i>11:45 AM</i> Depart Time:
Project Name: <i>Evaporation Pond</i>	Weather: <i>Overcast</i>
Project Number: <i>G09032MT</i>	Temp:
Client: <i>MB Construction</i>	Client Representative:
General Contractor:	Supervisor:
Specialty Contractor: <i>MB Construction</i>	Specialty Superintendent or Foreman: <i>Dick Teninty</i>
Source of Fill Material:	Plans and Specs: <i>N/A</i> Dated:
Contractor's Equipment Used: <i>Dozers, scrapers, backhoe, water truck and vibratory smooth drum compactor</i>	
Lambert and Associates Equipment Used - Manufacturer: <i>CPN</i> Serial Number or Unit Number: <i>18</i>	
Test Results were Verbally Given On-Site to: <i>Dick Teninty</i>	
Expected Conditions Observed: <i>Yes</i>	
Unexpected Conditions Observed: <i>No</i>	
Unusual Conditions Observed: <i>No</i>	
If yes, who was contacted?	
Follow-up from Prior Visit:	Retests Performed: <i>Yes</i>
Concerns for Next Visit: <i>None</i>	Retests Needed:
Other personnel contacted on-site: name/firm	
Notes: <i>I performed nuclear field density tests, as requested by Dick Teninty with MB Construction, of material being placed for the construction of Evaporation Ponds Numbers One (1), Two (2) and Three (3). Please refer to the test results sheets for approximate test location and test results. The test results indicate only the relative compaction and soil moisture content of the material tested at the elevation and location tested at the time of our site visit.</i>	
Lambert and Associates Technician: <i>Hayes</i>	

RELATIVE COMPACTION TEST RESULTS

PROJECT: Evaporation Pond

PROJECT NO: G09032MT

DATE: Thursday, May/28/09

SITE LOCATION: Parachute

ENGINEERING TECHNICIAN: Hayes

CLIENT: MB Construction

NUCLEAR GAUGE USED: 18

TEST NO	TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
	<i>Approximate Test Locations</i>								
	<i>Pond #1</i>								
2	Test #1 May/28/09 sketch	At Grade	8	121.5	12.0	113.5	12.9	93	Clay, Sandy, Gravelly, Brown
3	Test #2 May/28/09 sketch	"	8	121.5	12.0	117.0	14.0	96	" "
4	Test #3 May/28/09 sketch	"	8	118.0	13.0	104.9	14.1	89	Clay, Sandy, Brown
5	Retest of #4, this date	"	8	118.0	13.0	105.1	14.0	89	" "
	<i>Pond #2</i>								
6	Test #1 May/28/09 sketch	"	8	121.5	12.0	113.2	16.0	93	Clay, Sandy, Gravelly, Brown
7	Test #2 May/28/09 sketch	"	8	120.0	12.0	108.6	17.5	91	Clay, Sandy, Brown
8	Test #3 May/28/09 sketch	"	8	121.5	12.0	111.2	12.3	92	Clay, Sandy, Gravelly, Brown
	<i>Pond #3</i>								
9	Test #1 May/28/09 sketch	"	8	120.0	12.0	108.2	15.9	90	Clay, Sandy, Brown
10	Test #2 May/28/09 sketch	"	8	120.0	12.0	116.7	11.7	97	" "

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

PROJECT NUMBER: G09032MT

Lambert and Associates

CONSULTING GEOTECHNICAL ENGINEERS AND MATERIAL TESTING

Client: MB Construction

Date Received: May/8/09

Project: Evaporation Pond

Date Tested: May/13/09

Project Number: G09032MT

Sample Number: 1465

Location: Parachute, CO

Sample Source: MB Sample Number 3

Sample Description: Clay, Sand, Gravelly, Brown

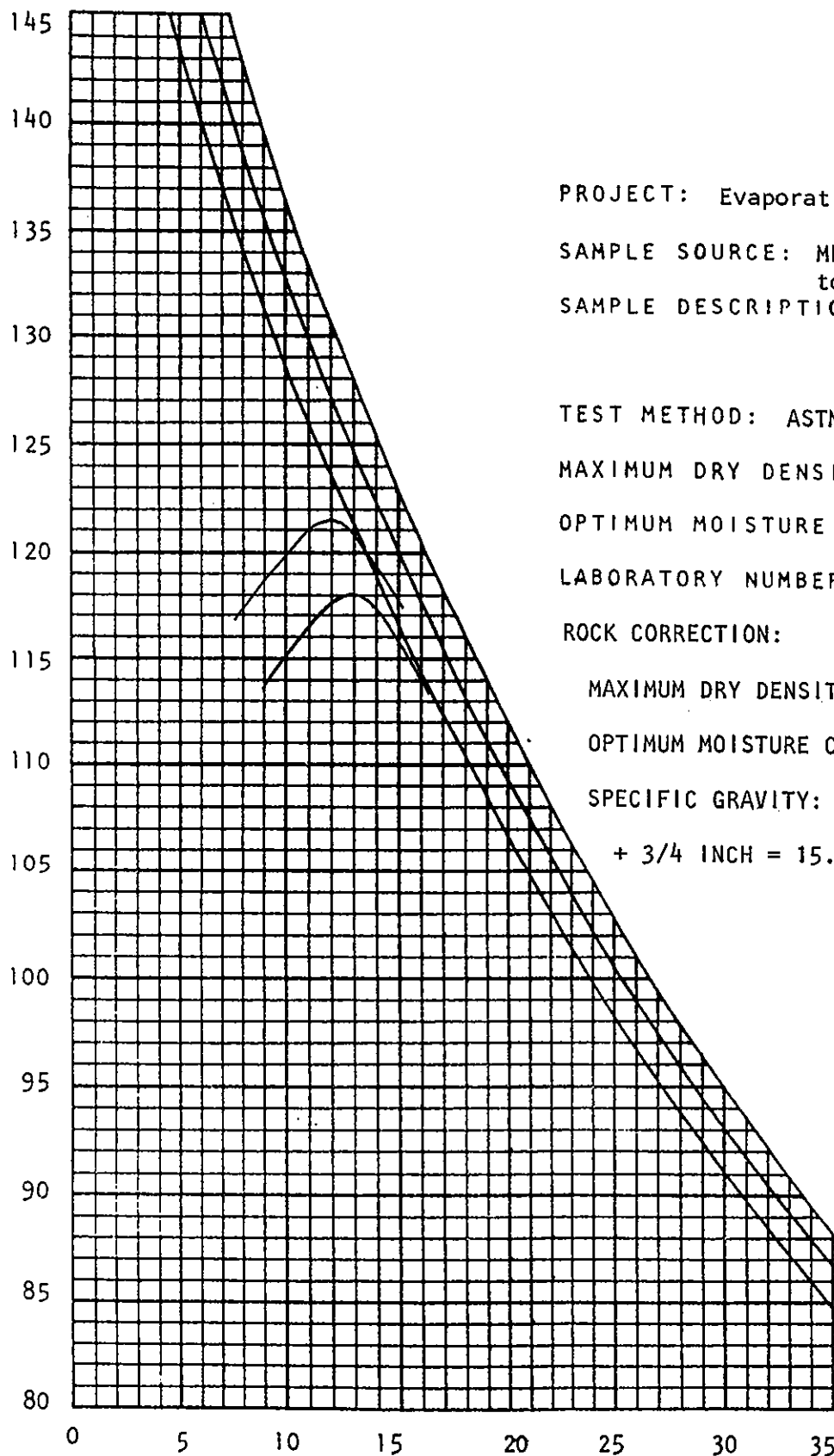
CONSTANT HEAD PERMEABILITY TEST

Initial Moisture Content: 13.5%

Dry Unit Weight: 106.2 pcf

Permeability: 4.2×10^{-8} cm/sec

DRY DENSITY (PCF)



PROJECT: Evaporation Pond

SAMPLE SOURCE: MB Sample Number 4, Delivered
to Grand Junction Office

SAMPLE DESCRIPTION: Clay, Sand, Gravelly,
Brown

TEST METHOD: ASTM D1557C

MAXIMUM DRY DENSITY: 118.0 pcf

OPTIMUM MOISTURE CONTENT: 13.0%

LABORATORY NUMBER: 1466

ROCK CORRECTION:

MAXIMUM DRY DENSITY: 121.5 pcf

OPTIMUM MOISTURE CONTENT: 12.0%

SPECIFIC GRAVITY: 2.302

+ 3/4 INCH = 15.4% OF TOTAL WEIGHT

2.8
2.7 Zero Air Voids for
2.6 Specific Gravity

Lambert and Associates

Project No.: G09032MT
Date: May/8/2009
Figure:

Lambert and Associates

CONSULTING GEOTECHNICAL ENGINEERS AND MATERIAL TESTING

Client: MB Construction

Date Received: May/8/09

Project: Evaporation Pond

Date Tested: May/14/09

Project Number: G09032MT

Sample Number: 1466

Location: Parachute, CO

Sample Source: MB Sample Number 4,
Delivered to Grand Junction Office

Sample Description: Clay, Sand, Gravelly, Brown

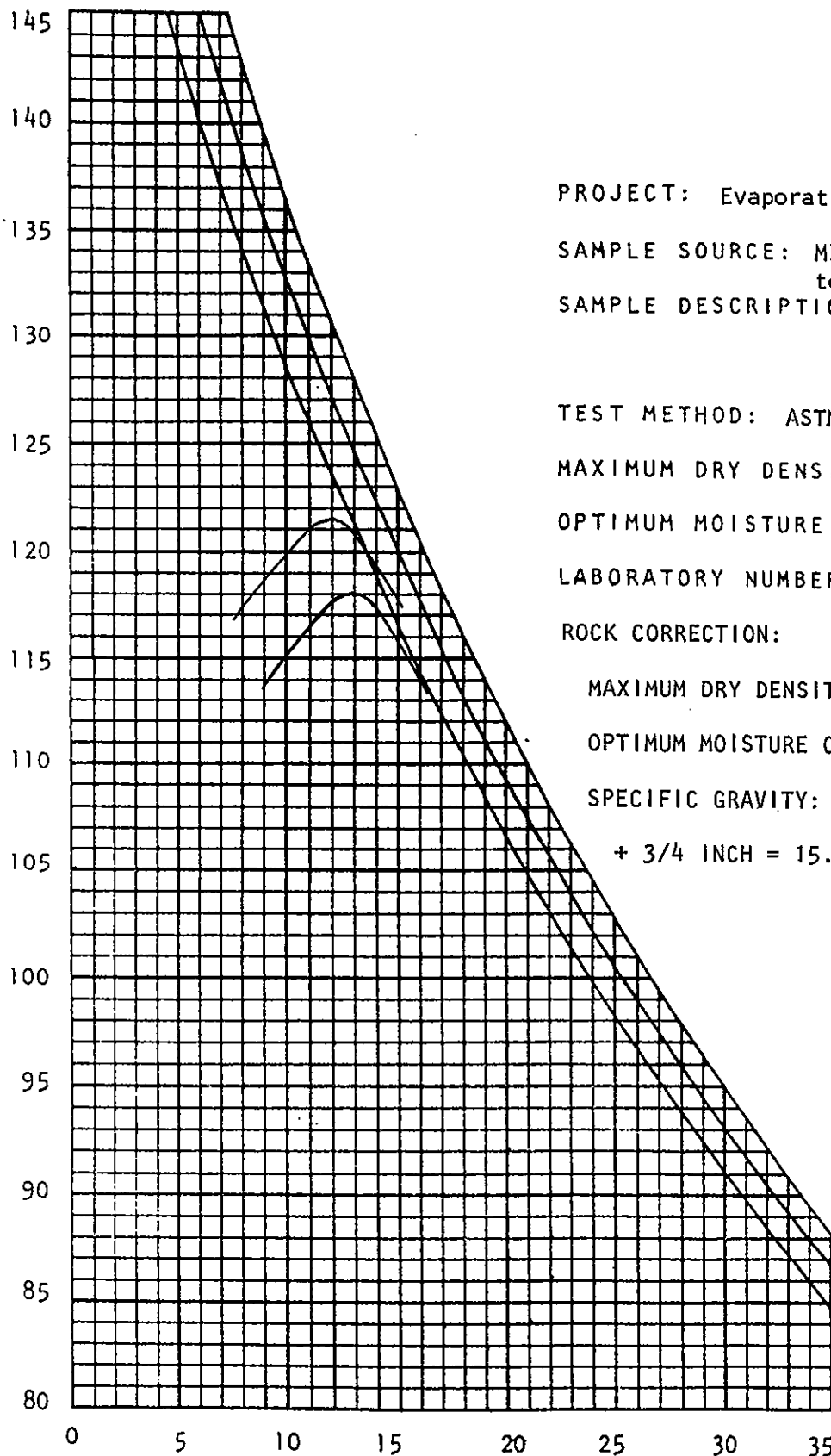
CONSTANT HEAD PERMEABILITY TEST

Initial Moisture Content: 14.6%

Dry Unit Weight: 106.2 pcf

Permeability: 1.8×10^{-7} cm/sec

DRY DENSITY (PCF)



PROJECT: Evaporation Pond

SAMPLE SOURCE: MB Sample Number 4, Delivered
to Grand Junction Office

SAMPLE DESCRIPTION: Clay, Sand, Gravelly,
Brown

TEST METHOD: ASTM D1557C

MAXIMUM DRY DENSITY: 118.0 pcf

OPTIMUM MOISTURE CONTENT: 13.0%

LABORATORY NUMBER: 1466

ROCK CORRECTION:

MAXIMUM DRY DENSITY: 121.5 pcf

OPTIMUM MOISTURE CONTENT: 12.0%

SPECIFIC GRAVITY: 2.302

+ 3/4 INCH = 15.4% OF TOTAL WEIGHT

2.8
2.7 Zero Air Voids for
2.6 Specific Gravity

Lambert and Associates

Project No.: G09032MT

Date: May/8/2009

Figure:

Parachute Evaporation Pond #1

609032 mT

5-28-09



N

2

1

3,4

No Scale



COGCC GIS Online

-  Red Lines
- OIL AND GAS WELLS**
 -  Oil and Gas Wells
 -  Temporary Point
- CITIES TOWNS PLACES**
 -  Towns and Places
- ROADS AND RRS**
 -  Major Highways
- SAN JUAN BASIN**
 -  Fruitland PC
-  MUNICIPAL BOUNDARIES



SCALE 1 : 9,152

