PFM Consulting LLC

Colorado Division of Reclamation, Mining and Safety Attn: Nikie Gagnon 1313 Sherman Street, Room 215 Denver, CO 80203

RE: Colorado Gravel LLC Pit M2022-053, Second Adequacy Review Response

July 17, 2023

Ms. Gagnon,

Thank you for taking the time to review the Special Operations 111 Reclamation permit package for the Colorado Gravel LLC Pit M2022-053.

- 1. This item was updated and sent via email on June 23, 2023.
- 2. Please see the attached, updated signature page.
- 3. Please see the updated Exhibits C, D, E and L. The unaffected area is now 4.7 acres. Colorado Gravel LLC commits to submitting an Amendment prior to these acres ever becoming affected. New Reclamation Cost Estimates are attached for review. With only 10 acre-feet of water allowed to be exposed at any time due to the Division of Water SWSP, the reclamation costs are decreased since backfilling will occur simultaneously to mining operations to ensure that additional water is never exposed. The 10-acre feet of exposed water is permanently covered under LAWMA's plan and can remain exposed with no need to backfill. The maximum amount of backfill would then be for the wash ponds and possible settling pond. The remainder of the site will require only grading and ripping of the stockpile and scale areas, and placing of topsoil followed by seeding and mulch.
- 4. It is acknowledged that all disturbed land due to the site operations is considered a part of the max allowed disturbance at any time. Colorado Gravel LLC commits to submitting a Technical Revision to increase the maximum disturbed area and provide an updated bond estimate prior to moving into the new area.
- Colorado Gravel LLC commits to submitting a Technical Revision with design details for any flood protection/bank stability structures required for the possible settling pond by Prowers County or FEMA.
- 6. The two wash ponds will be approximately 100'x150'x6'.
- 7. The Reclamation Plan has been updated and is attached for review.
- 8. Attached is a weed management plan for review and approval.
- 9. Colorado Gravel LLC commits to obtaining a SWSP from the Division of Water Resources. Water exposure will not be allowed without the SWSP in place. Exhibit L has broken out this task, but Colorado Gravel LLC would ask that this not be included in the bond calculation since the Division of Water Resources will not allow such exposure without the SWSP in place. At the time the plan is in place, the backfilling of the mine would no longer be required and that cost estimate no longer pertains.



PFM Consulting LLC

- 10. Please see the attached, updated maps.
- 11. Please see the updated Exhibit L Reclamation Costs.
- 12. Please see the attached, updated engineering evaluation from Kidd Engineering.

If additional information is needed to complete the adequacy review, please let me know and I will get the information submitted for review.

Warm Regards,

Jodi Schreiber

Jodi Schreiber, Owner PFM Consulting LLC

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Certification:

As an authorized representative of the applicant, I hereby certify that the operation described has met the minimum requirements of the following terms and conditions:

1. To the best of my knowledge, all significant, valuable and permanent man-made structure(s) in existence at the time this application is filed, and located within 200 feet of the proposed affected area have been identified in this application (Section 34-32.5-115(4)(e), C.R.S.).

2. No mining operation will be located on lands where such operations are prohibited by law (Section 34-32.5-115(4)(f), C.R.S.;

3. As the applicant/operator, I do not have any extraction/exploration operations in the State of Colorado currently in violation of the provisions of the Colorado Land Reclamation Act for the Extraction of Construction Materials (Section 34-32.5-120, C.R.S.) as determined through a Board finding.

4. I understand that statements in the application are being made under penalty of perjury and that false statements made herein are punishable as a Class 1 misdemeanor pursuant to Section 18-8-503, C.R.S.

This form has been approved by the Mined Land Reclamation Board pursuant to section 34-32.5-112,C.R.S., of the Colorado Land Reclamation Act for the Extraction of Construction Materials. Any alteration or modification of this form shall result in voiding any permit issued on the altered or modified form and subject the operator to cease and desist orders and civil penalties for operating without a permit pursuant to section 34-32.5-123, C.R.S.

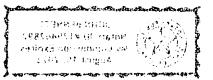
Signed and dated this day of	2023
Colorsolo Gravel LLC Applicant/Operator or Company Name	If Corporation Attest (Seal)
Signed:	Signed:
Title: Albrug - in - Fact	Corporate Secretary or Equivalent Town/City/County Clerk
State of) ss. County of	
The foregoing instrument was acknowledged before me this, by as	6th day of Jyly 2023 my-in-Fast of Colorado Granel UC
JOHN BENNETT Notary ID #129462892 My Commission Expires August 15, 2023	Notary Public My Commission expires:

SIGNATURES MUST BE IN BLUE INK

You must post sufficient Notices at the location of the proposed mine site to clearly identify the site as the location of a



Hard and the



6.4.12 Exhibit L

Reclamation Costs

Reclamation cost estimates were calculated on a per acre basis and applied to maximum active mining area of 39.2 acres and disturbed by unmined area of 4.7 acres.

Direct Tasks Grading/Ripping Stockpile, Processing & Scale Areas	Unit SQUARE FEET	Quantity 7,000 SF Overburden	Cost Per Unit \$1.50	Total Cost \$10,500
Placing Topsoil/Fines	VOLUME/CUBIC YARDS	7,000 CY Topsoil	\$1.25	\$8,750
Backfilling Wash Ponds	VOLUME/CUBIC YARDS	5,000 CY	\$1.25	\$6,250
Backfilling Potential Settling Pond	VOLUME/CUBIC YARDS	3,000 CY	\$1.25	\$3,750
Backfilling Active Mine Area	VOLUME/CUBIC YARDS	0 CY Will mine Approx. 10' deep, stay above static water and reclaim to 3:1	\$1.25	\$0.00
Seeding				
Broadcasting	Hours	10	\$300.00	\$3,000
Seed Mix	Acre	40	\$350.00	\$14,000
Mulch	Acre	40	\$187.50	\$7,500
Area Reclaimed	Acre	40		
Mobilization Fee	Hours	1	\$5,000.00	\$5,000
Indirect Tasks				
Liability Insurance			0.0155	\$2,360
Performance Bond			0.015	\$2,284
Profit			0.1	\$15,232
Job Superintendent	Hours	20	\$88.00	\$1,760
Miscellaneous Indirect			0.0925	\$14,089
Total Bond				\$94,475

Colorado Gravel LLC Pit Weed Management Plan

The Colorado Gravel LLC Pit is in Prowers County, Colorado. This weed plan will out line the methods to be used onsite to mitigate noxious weeds. These methods are recommended by the Colorado Weed Management Association:

Control Methods

Species of noxious weeds grow or spread differently, and Colorado's Noxious Weed Act requires certain methods of control to be used depending on the level of control that is mandated.

Below are examples of Integrated Pest Management techniques.

- Biological control Uses organisms to control noxious weeds. Since we are dealing with living
 things, a variety of circumstances come into play that impact the success of the establishment of
 the bio-control and ultimately the control of the noxious weed you are targeting. For example, an
 organism that works well on the plains may not work in the mountains. Although there has been
 some success on some noxious weeds, bio-control agents are not available for all species.
- Chemical control The use of herbicides to control noxious weeds. All herbicides must be used in accordance with the registered label.
- Cultural control The use of materials or techniques that reduce noxious weed populations.
- Examples include mulching, rotational grazing, establishing good vegetation cover.
- · Mechanical Cutting, mowing, disking.

Remember, not all techniques will work in all situations. Refer to the Colorado Department of Agriculture for required control levels. Consult with your local weed manager or Licensed Commercial Applicator for specific recommendations.

Colorado Gravel LLC will contact Prowers County if noxious weeds are found onsite and are not responding to the above methods of eradication. They will illicit the suggestions from Huerfano County at that time for updated techniques that may be successful if a weed species does not respond to these proposed methods.

Colorado Gravel LLC will also monitor the site with periodic inspections to evaluate any new species onsite, and to evaluate the effectiveness of the weed control program. If management objectives are not met, weed control actions will be modified.

Below is a chart showing noxious weed types and possible control methods and timing for reference.

Weed	I.P.M.	Jan.	Feb.	Mar.	Apr.	Ma	y	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	De
y6 69	Chemical		Star herbi									d of el	prite	1
Russian Thistle	Mechanical	pints roset Amne c	tacre dun te stage	ng the 2.4-0 pled at a	3 5	30	献	Jointon	3040	1	304	6		T
	Cultural	(Alm	ays refer rbiode la	to the	Wa	X	4	Ma	Ma	Wa	Wa	Wa	0.0	
Prickly	Chemical	See herbicide is		abel for										
Pear	Mechanical		rates		13the	15%	-	15the	15the	15the	100	8the	-	
Tree of	Chemical	A toliar application of glyphosate (RoundUp) mixed at a 2% solution		undUp)			1							
Heaven	Mechanical	surfact	is a non-li ant is use oiling this	nortwice.	15the	676	~	15the	15the	File	10	(the		
1.1	Chemical	ADeta 1	verbicide	used at								n the b		
Kochia	Mechanical	the high acre) Secc		t 1/3 p(nt/ hytated actant	J 🥠	30	N	J.	300	100	300	6		
	Cultural	(400)			Ma	W	1	Ma	Wa	Wa	Ma	1961		
	Chemical		2.4-D, glyphosate, and dicamba can be applied								055	1.172		
Puncture	Biological	when p	lant is yo erging i R	ung and RoundUp		1981				1.000	Ste.	1.75.275		
-vine	Mechanical	Pro is effective at a 5- 10% solution. The Puncturevine weekil is effective in destroying the roots.		10% solution. The Puncturevine weevil is flective in destroying the		0		4	0	in,			100	
	Cultural			955	-250tr		-255	4250×		-				
ichan)	Chemical		s are les		sili ilwa]					i chaite ar	1083	
Rubber Rabbit Brush	Mechanical	inches in diameter a basis treatment applied about 12 inches from the ground can be used. See herbicide label for rates		S	S d		S	S	S	S	S	3nug	D	
	Cultural		alcation r		Ma	Ma		Ma	Ma	What Wh		10 01 0	rods	
gemen.	Chemical	a 1%	3% soluti onio surti	actant.							and to	onsite	olos: olos:	
Oak Brush	Mechanical	as a f when m solution	Remedy can also be used as a foriar application when mixed at a 2% - 4% solution or (when mixed with vegetable or mineral of) as a basal treatment at a 2% - 3% solution				1						gject	
for	Cultural	oi) as			Ma	X	1	Wa	Ma	Wat	Ma	s a char	wole	
				LEGEN	D					2, 4-D Ester		2, 4-0	Artine	
	Garlon / tricolpyr			Patrilinde	ar / bislopyr		Vista	/ fluroxypyr		Landmaster / glyphosate + 2	4-0	Reme	dy / triclop	P)17
-	Habitat/Imazapyr			Plateau /	imazapic		Round			Rangestar / D + 2,4-D	camba	Milest arrino	one / pyraild	
Т	Transline / Clopyrai		Escort XP / metsulfuron				Telar	XP / authuron		Curtial / clopys 2,4-D	aid +	Rust F puncti	ungus: Pi formis	uccini
	uncturevine Weevi M. lypiformis*	2	\$	Mowing	lowing		Hand	I-Pull	OTHE	Tilling		Presc	nbed Burn	1
	eaty Spurge Flea leetle: aphtona spp	1		Tamarisk Diorhabo		ÌE		e Seed Head e "rhinocytlus us"	8760	Sever root bel ground or upro a shovel or ho	ot with		nt seed to ninating s	
Bulidozers & Hydro)=		large are	plication for as of & Russian	Pulls		ith weed th when small	NA	Seed & sow grasses. Keep inigated to promote competition.			tump: 2° fr d & immed	

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Yellow	Chemical	and cit	combination of mowing and chemical treatment			83		8		63									
Toadflax	Mechanical	period	at flowenin of several L for this w	years is		8	S	8	\$	8	ß	8	\$	8	\$		1		
Dalmatian	Chemical	Escort & Telar can be used in the fail. Due to the waxy leaves a non-onc surfactant is recommended							8				83						
Toadflax	Cultural			leaves, a non-ionic surfactant is recommend		Wa	D	h	X	a	X	h	X	h	X	h	X	a	
Perennial Pepper-	Chemical	Mowing can be done periodically and controlled burning in the Spring. It is best to treat with Escort XP as soon as found			53				8						5				
weed	Mech /Cult			0		2	2	5	2	S	2	\$							
Hounds-	Chemical	nical Mowing 2nd year plants during fowering (before seed production) is useful		(before	53			8		8									
tongue	Mechanical	best in	al applicat Spring (ro D inches ta	setes to	S	2	S	2	S	3	ß	S	\$						
Hoary Cress or	Chemical	year k	g several i s helpful ar rbioide ap	id may	8					8					in the second				
"White Top"	Mechanical	more effective. Telar or Escort are best, but may need several applications	Wal	8	\$	X	a	8	\$	X	h	8	\$	X	a				
1.28	Chemical	compe	ises are a stor Mow	ing and	14.					63		53							
Field Bindweed	Mechanical	pulling are usually ineffective unless out below the surface in the early seeding stage. Herbioldes can be applied in Spring, at		1		S		S	0	S	0	S		S					
	Cultural		ther full blo the fail		Wa	X	A	X	a	X	a	X	a	X	h	X	h		
	Chemical	by next	izer & Hyd s must be Lseason h	followed protocide			_			-		1 S		20		K	5	80	×
Salt Cedar or Tamarisk	Biological	in late si Out-st.	it it is bei ummer or i imp or folg e acceptat	anty fall in apps		14					F								
	Mech./Cult.	-	-	-				-		-		0.		0				-	-
Russian	Chemical	seed pr	ve (or pull) oduction r foliar app	Use cut-					3	E	2	20	2	20		20			
Olive	Mechanical	8			1		1		~	-	1		~	8	~	R.	~		-

			LEGEND			-	2, 4-D Ester		2, 4-D Amine
	Garlon / tricolpyr		Pathlinder Isclopyr		Vista / fluroxypyr		Landmaster / glyphosate + 2,4-0		Remedy / triclopyr
	Habitat/Imazapyr		Plateau / imazapic		Roundup / Glyphosate		Rangestar / Dicamba + 2.4-D		Milestone / aminopyralid
	Transline / Clopyralid	88	Escort XP / metsulfuron		Telar XP / chlorsulfuron		Curtial / clopyralid + 2,4-D	ALL STREET	Rust Fungus: Puccinia punctiformis
Stan	Puncturevine Weevil "M. lypiformis"	S	Mowing	0	Hand-Pull	OF	Tilling	0	Prescribed Burn
	Leafy Spurge Flea Beetle: aphthona spp.	1	Tamarisk Beetle Diorhabda spp.	Ň	Thistle Seed Head Beetle "rhinocyllus conicus"	6760	Sever rost below ground or uprost with a shovel or hoe.	-	Prevent seed formatic by eliminating seed heads.
THE	Bulidozers & Hydro- axes.	3	Aerial application for large areas of Tamansk & Russian	1	Pull with weed wrench when small or with a tractor	NA	Seed & sow grasses. Keep irrigated to promote competition.	2	Cut-Stump 2' from ground & immediately



July 13, 2023

Subject: Colorado Gravel LLC Plt Granada, Colorado

TO WHOM IT MAY CONCERN:

We have conducted an analysis of the proposed gravel pit relative to structures located along the west side of the quarry site. The assumed soil profile, soil types, groundwater depths, and analysis constraints are as shown on the following sheet.

Based upon our analysis, the proposed 3:1 cut slope should be stable and there will not be any damage to the power lines and county road west of the quarry permit line. An exception to this would be in the event of a rapid drawdown of a significant buildup of water. A situation in which this may arise is if the dewatering system fails and there is a significant buildup of groundwater or if there is an extreme rainfall event which results in floodwater flowing into the pit and then the water is rapidly pumped out of the pit. In either case, if the water to be pumped out is more than 12inches of depth this engineer shall be consulted before dewatering is resumed.

A "significant" buildup of groundwater is dependent upon the depth of the excavation below the groundwater elevation and the depth of the ponded water.

Respectfully,	REGIS	
	621	
Ricky A. Kidd, PE	IL ENGLY	
Attachment		
	and the second	
AV	44811 EAST US HIGHWAY 50 VONDALE, COLORADO 81022-9704	

719-544-5239

