

ERRATA SHEET

Date: August 13, 2025

Document: Abbreviated Operating Permit Application – Grassy Mountain Closure Cover

Borrow Areas Quarry

REVISION A Version: October 27, 2021

Author: Golder, Member of WSP

p. 3 of 17, Operating Permit Application, Section 1: Contact Information

Section 1a. Applicant / Proposed Permittee

• Name of Applicant typographical error ("h4") should be Calico Resources USA Corp.

• Telephone: 844-488-2233

• Email: rachel@paramountnevada.com

Section 1b. Primary Contact for the Application (update contact information)

• Name: Rachel Goldman

• Telephone: 844-488-2233

• Email: <u>rachel@paramountnevada.com</u>



1663241.073.L.REV0 October 27, 2021

Bob Brinkmann, RG

Oregon Department of Geology and Minerals Industries 229 Broadalbin St. SW Albany, Oregon 97321

ABBREVIATED OPERATING PERMIT APPLICATION - GRASSY MOUNTAIN CLOSURE COVER BORROW **AREAS QUARRY REVISION A**

Dear Mr. Brinkmann,

Golder Associates, Inc. (Golder) a member of WSP is pleased to submit this revised abbreviated Operating Permit Application (OPA) on behalf of Calico Resources USA Corp (Calico) for the closure cover borrow areas at the proposed Grassy Mountain Mine. Submittal of this abbreviated OPA was recommended by the Oregon Department of Geology and Minerals Industries (DOGAMI) because the closure cover borrow areas will be situated within the Division 37 permit area (Permit Area) for the proposed chemical process mine.

The information and responses provided in this abbreviated OPA are related to the closure cover borrow areas and not the entirety of the Division 37 Permit Area. This permit application specifically relates to surface mining operations under Division 30 Rules. We understand that this abbreviated OPA will be reviewed by DOGAMI; however, a Division 30 permit will not be issued. This OPA will be submitted as an appendix of the Consolidated Division 37 Permit Application for the entire Grassy Mountain Mine Project.

If you have any questions or require additional information, please contact the undersigned.

Respectfully,

Golder Associates Inc.

Associate, Senior Engineer

hristopher J. MacMahon, PE

Associate, Senior Consultant

TW/CJM/kgkg

CC: Glen Van Treek (Calico)

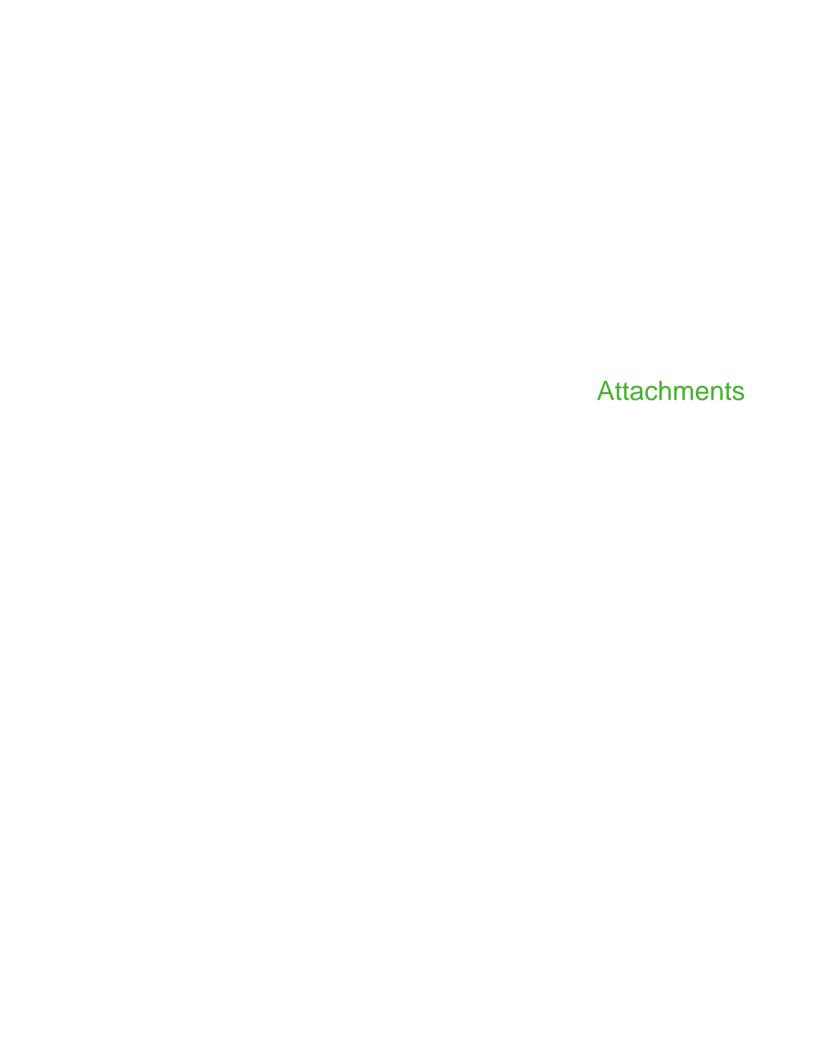
Attachments: **Operating Permit Application Form**

Operating and Reclamation Plan Set (Figures 1-4) Groundwater Supplemental Form

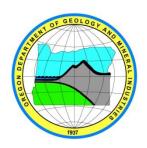
Wetland Supplemental Form

https://golderassociates.sharepoint.com/sites/17031g/1663241 grassy mountain tsf/500_reporting/510_report/524_closure cover opa/final/1663241.073.l.rev0 closure opa_cover letter.docx









Oregon Department of Geology and Mineral Industries
Mineral Land Regulation and Reclamation Program
229 Broadalbin Street SW
Albany, OR 97321-2246
(541) 967-2039
Fax (541) 967-2075

Operating Permit Application Form Division 30 & Division 35*

*DOGAMI may require additional information for Division 35 applications.

Primary Point of Contact

To ensure effective communications and timely processing, a Primary Point of Contact (PPC) is recommended for this application. The PPC should be a representative of the applicant with signature authority or a designated agent. Documentation of signature authority and/or designated agent is required for all applicants registered to do business in the state of Oregon. DOGAMI specific Designated Agent and Signature Authority forms are available on our website.

Section 1: Contact Inforn	nation				
1a. Applicant / Proposed Permittee					
Name of Applicant: h4					
Mailing Address: 665 Anderson Stree	t	City: Winne	mucca	State: NV	Zip: 89445
Telephone: 775-625-3600	Fax: NA		Email: glen@para	mountnevada.c	om
Preferred method of contact	lephone 🛛 Em	nail			
1b. Primary Contact for the Applica	tion				
Name: Glen Van Treek - Calico Resor	urces USA Corp				
Mailing Address: 665 Anderson Stree	t	City: Winne	mucca	State: NV	Zip: 89445
Telephone: 775-625-3600	Fax: NA	•	Email: glen@para	mountnevada.c	om
Preferred method of contact	lephone 🛛 Em	nail			
1c. Application Prepared By					
Name: Tom Wythes					
Mailing Address: 2000 SW 1st Avenue	e, Suite 220	City: Portla	nd	State: OR	Zip: 97201
Telephone: 503-607-0786	Fax: NA		Email: tom_wythe	es@golder.com	
Preferred method of contact	lephone 🛛 Em	nail			
1d. Operator Information					
Name: Calico Resources USA Corp					
Mailing Address: 665 Anderson Street City: Winnemucca State: NV Zip: 89445					
Telephone: 775-625-3600 Fax: NA Email: glen@paramountnevada.com					
1e. Contact Person for Field Visits					
Name: Michael McGinnis	F	referred meth	od of contact	Telephone	
Telephone: 719-332-8253	Fax: NA		Email: mmcginnis	@paramountne	vada.com
1f. Landowner Information					
Name of Landowner (1): Bureau of La	nd Management, V	/ale District C	Office	,	,
Mailing Address: 100 Oregon Street		City: Vale		State: OR	Zip: 89445
Telephone: 541-473-3144	Fax: NA		Email: blm_or_vl_	mail@blm.gov	
Name of Landowner (2):					
Mailing Address:		City:		State:	Zip:
Telephone:	Fax:		Email:		
1g. Mineral Estate Owner Informati	ion – If Split Estate				
Name of Mineral Estate Owner (1): See ownership information	Division 37 Conso	lidated Perm	it Application for co	omplete minera	l estate
Mailing Address:		City:		State:	Zip:
Telephone:	Fax:		Email:		
Name of Mineral Estate Owner (2):					
Mailing Address:		City:		State:	Zip:
Telephone:	Fax:		Email:		

Section 2: Project Description
2a. Location Information
Address and/or highway and milepost of surface mine:
See attached Operating and Reclamation Plan set for site location
Distance from the nearest named community: 22 mile(s) from Vale, Oregon
Directions to site (from the nearest town or major intersection):
See attached Operating and Reclamation Plan set for site location
Legal Description:
County: Malheur
Township: 22S Range: 44E Section: 8 Tax Lot(s):
Township: Range: Section: Tax Lot(s):
Township: Range: Section: Tax Lot(s):
Township: Range: Section: Tax Lot(s):
Latitude/Longitude: 43.67/-117.36
Site Name: Grassy Mountain Closure Cover Borrow
Does this site have a current DOGAMI Operating Permit, Exploration Permit, Exclusion Certificate, or Grant of yes No
Limited Exemption, or has it been permitted in the past?
If yes: Specify DOGAMI ID#
Is there an approved Limited Exemption Closure Plan on file with DOGAMI?
2b. Application Type
Please indicate the purpose of this application:
New Operating Permit – skip to 2c.
Amendment to a current Operating Permit
If you are applying for an Amendment to a current Operating Permit, please describe in detail the intended modifications:
This is an abbreviated Operating Permit Application for closure cover borrow areas at the Grassy Mountain project.
The closure cover borrow areas will be situated within the Division 37 permit boundary (Permit Area); however,
this permit application specifically relates to surface mine operations under Division 30 regulations. This
abbreviated application and Operating and Reclamation Plan set will be submitted as an appendix of the
Consolidated Division 37 Permit Application. The Division 37 Permit Area and location of the closure cover borrow
areas are shown on Figure 1.
The information and responses provided in this abbreviated application are related to the closure cover borrow areas and not the entirety of the Division 37 Permit Area.
The Proposed Operating and Reclamation Plans in this Amendment will (check one):
Replace the existing approved plan(s) on file with DOGAMI Pertain only to the Amendment area and are in addition to
and apply to the entirety of the site upon completion of this the existing approved plan(s) on file with DOGAMI.
Amendment.
2c. Third Party Permits and Approvals
Do you know of any state, federal or local government permits or approvals that will be required for 🔀 yes 🔲 no
this mining operation?
If yes: Please list any state, federal or local government permits or approvals and describe the status:
This is an abbreviated permit application in support of the closure cover borrow for the Consolidated Division 37
Permit Application. This application will be submitted as an appendix to the Consolidated Division 37 Permit

DOGAMI - MLRR • 229 BROADA	LBIN ST. SW • ALBANY O	REGON 97321 • PHONE: 541-967-203	9 • FAX: 541-967-2075 • EMAIL: <u>mlrr</u>	:.info@oregon.gov
		g Permit if all required state, fe g Permit will be issued. POP's a	_	
applications.				
2d. Permit Acreage ar	nd Boundaries			
Specify the approximate	total number of ac	res to be covered under the Op	perating Permit	acres
Does the proposed perm	nitted acreage coinc	ide with the area approved by	the local land use jurisdiction	n? 🛛 yes 🗀 no
If no: Explain: The Close (Figure 1).	ure Cover borrow	areas are located solely on	BLM land within the Divis	ion 37 Permit Area
Have the boundaries of boundary markers?	the proposed permi	it area been marked on the gro	und with temporary or perm	anent 🗌 yes 🛛 no
If yes: Describe boundar	ry markers: Permit	boundary to be established	d as part of Division 37 Per	mit Area (Figure 1).
		ected by mining related activities	=	
excavation, processing, s	stockpiling and land	clearing)? Closure Cover bo	rrow disturbance will occu	ur at the completion of
mining or during cond	urrent reclamation	on. 0 acres		
2e. Site Conditions				
_		ermit area (check all that apply)		
☐ mountains		⊠ valleys	plains	☐ badlands
☐ floodplain	other:			
		graphy within the permit area)		
•	_	gon and local landscape is ty	•	
		erate with relatively low re	lief. Elevation ranges from	n approximately 3,800
•		feet amsl on the west side.	all that analys.	
		s within the permit area (check		☐ recreation
range/open space	forestry	☐ industrial	☐ wildlife/wetland	i recreation
residential	☐ commercial	☐ agriculture		other:
residential	Li commerciai	agriculture	(Malheur County)	other:
Structures, Facilities & S	urface Disturbances	••	(ividifical county)	
none	urrace Disturbances	residential	☐ farm/ran	ch
industrial/commerci	al	residential roads		power lines or facilities
underground utilitie		oil/gas structures or pipe		
fiber optic, water, sewer	· =	in on/ gas structures of pipe	c3 Li otilet	
<u>-</u>	•	tures currently present with	nin the footprint of the Clo	sure Cover borrow
areas.		the same of the sa		

Vegetation (general descr	ription of the domin	nant grasses, forbs, sh	rubs and trees	s located within the permit area):
Terrestrial vegetation i	s cold desert type	e. Vegetation comn	nunities inclu	ude big sagebrush/bunchgrass community,
crested wheat grass/ar	nnual community	, and annual grassl	and commur	nity. Invasive species such as cheatgrass
and/or medusahead do	ominate most of	the vegetation com	nmunities (Te	errestrial Vegetation Baseline Study, Grassy
Mountain Exploration	Project, Calico Re	sources USA Corp.,	, Malheur Co	unty, Oregon prepared by EM Strategies,
revised October 2018).				
No wetlands occur in the	he vicinity of the	closure cover borro	ow areas or v	within the Division 37 Permit Area (See
attached Wetland Supp	plemental Form).			
Listed sensitive, threatene	ed or endangered fi	sh and/or wildlife spe	ecies (within th	he permit area and nearby water ways):
Wildlife species and enco	ounters within the S	Study Area are discus	ssed in the Wil	Idlife Resources Baseline Report, EM Strategies,
Inc., October 2018.				
Surface Water Features w	vithin or near the pe	ermit area (includes f	eatures that m	nay contain water at any time, including seasonal
and stormwater runoff):				
none	☐ river _			creek spring
☑ lake/pond	🗌 irrigatio	on ditch/canal	epheme	ral drainage
*The DOGAMI Wetland S	Supplemental Form	may be required to	be submitted	with this application package.
2f. Surrounding Area C	onditions			
Land Use(s) within 1,500 f	feet of the permit a	rea (check all that ap	ply):	
☑ range/open space	☐ forestry	☐ industri	al	☐ wildlife/wetland ☐ recreation
				☑ other: <u>C-A2</u>
☐ residential	commercial	agricultı 🔲	ure	Exclusive Range Use
				(Malheur County)
Structures, Facilities & Su	rface Disturbances	within 1,500 feet of t	he permit area	a (check all that apply):
none		residential		☐ farm
☐ industrial/commercia	I			overhead power lines or facilities
underground utilities	(e.g. electrical,	oil/gas structures	s or pipelines	other: Schweizer Reservoir
fiber optic, water, sewer, etc.) (Cattle Pond)				
What is the distance to the nearest structure not owned by the permittee? Approximately 200 feet south of the Division 37				
Permit Area (overhead powerline right-of-way) feet				
Surface Water Features within 1,500 feet of the permit area (check all that apply):				
none	☐ river _		☐ stream/c	reek spring
□ lake/pond	☐ irrigatio	on ditch/canal		ral drainage
*The DOGAMI Wetland Supplemental Form may be required to be submitted with this application package.				

Section 3: Proposed Operating Plan						
3a. Development Plans &	Equipment					
What type of surface mine w	ill be developed?					
	multiple bench	sidehill cut	☐ hilltop removal			
☐ open pit	pond excavation	☑ other: Surface soil removal	other:			
What is the primary commod	dity? (Select One)					
☐ lava	decomposed granite	pumice	☐ topsoil			
☐ borrow/fill	diatomaceous earth	☐ sand and gravel	☐ bentonite			
☐ cinder	☐ dredge tailings	shale	other: Topsoil and Colluvial soils			
What is the primary use? (Se	lect One)					
asphalt aggregate	concrete aggregate	☐ landscaping materials	⊠ other: Closure Cover			
□ base rock aggregate	construction fill	☐ rip rap				
What is the general deposit t						
bedrock	☐ river/floodplair	n (alluvial)*	channel terrace			
☐ talus	<u> </u>	_	nown			
*The DOGAMI Floodplain Su	ipplemental Form may be required					
	d on-site activities that apply:					
drilling and blasting	_	shing 🔲 washing	screening			
		ckpiling	other:			
-	ning and processing includes (check					
☑ loaders		cavators 🛛 trucks				
crushers		ner:				
Date to begin mining activitie		Expected duration (in years): 3				
0 0		1 , , , ,				
3b. Water Management						
Indicate the proposed use(s)	of water (check all that apply):					
☐ wash plant	asphalt plant	☐ cond	crete batch plant			
■ dust control	☐ crusher	☐ othe	er:			
Note: A DEQ permit will be r	equired for process water generat					
If applicable: Is the water so	urce within 300 feet of the permit a	area?	☐ yes ☒ no			
If yes: Identify the source of	water to be used and show its locat	tion on a map:				
☐ irrigation ditch ☐	pond pit	☐ groundwater	well other:			
Note: A water right may be i	required by the Oregon Water Res	ource Department.				
Will water be stored on site?			☐ yes ☒ no			
If yes: What will the water be	e stored in?					
detention/retention pon	d 🔲 lined detention	/retention pond	er storage tank			
other:						
What is the approximate dep	oth that groundwater is first encour	ntered? >50 feet below ground su	ırface			
What source or method was	used to determine depth to ground	dwater? Measured groundwate	er depths in nearby			
	59761, 59772, 59763, 59764, 26					
Groundwater Resources B	Baseline Report and Comment R	Responses, Grassy Mountain M	Nine Project, prepared by SPF			
Engineering, LLC., revised September 2021. Groundwater Monitoring Wells are shown on the Closure Cover						
Operating and Reclamation	Operating and Reclamation Plan set.					

DOGAMI - MLRR • 229 BROADALBIN ST. SW • ALBANY OREGON 97321 • PHONE: 541-967-2039 • FAX: 541-967-2075 Have monitoring wells been constructed on site or are monitoring wells proposed?		⊠ yes	no no
If yes: A DOGAMI Groundwater Supplemental Form must be submitted with this applicati	on.	∠ yes	☐ 110
Will excavation operations be conducted below groundwater level?	<u> </u>	yes	⊠ no
Will dewatering be conducted at this site?		□ yes	⊠ no
If yes: A DOGAMI Groundwater Supplemental Form must be submitted with this applicati	on and a DEQ Permit	•	
required.		-	
Has a DEQ water quality permit been obtained for the site?			
If yes: DEQ Permit # A DEQ water quality permit will be obtained for the Division 37	Permit Area which	will cov	er the
Closure Cover borrows.			
3c. Designated Setbacks			
Will surface mining operations require crossing external property lines?		☐ yes	⊠ no
What will be the minimum undisturbed property line setback for:			
Excavation operations: 50 feet wide			
Processing operations: 50 feet wide			
Stockpiling operations: <u>50</u> feet wide			
If proposing disturbances within the setbacks (such as visual berms or roads), explain:			
Specify the minimum undisturbed setback(s) between mining operations and:			
Overhead utilities (poles or towers): feet wide			
Underground utilities (e.g. electrical, fiber optic, water, sewer, etc.): feet wide			
Right-of-Way/Easement Road: feet wide			
Other: feet wide			
not applicable (none of the above-listed items are present within the proposed permit a	area)		
Are setbacks shown on the attached map(s)?		⊠ yes	☐ no
If no: Explain:		_	
Have setbacks been marked on the ground with permanent or temporary boundary marker		☐ yes	
If no: Explain: Setbacks will be marked prior to the commencement of borrow open			
include minimum 50-foot setback from the Division 37 Permit boundary (see atta	ched Closure Cover	Operati	ng and
Reclamation Plan set)			
3d. Designated Buffers			
Does a naturally vegetated area (buffer) exist along a river, stream or natural drainage?	not applicable	☐ yes	⊠ no
If no or not applicable, skip to 3e.		,	
What are the minimum undisturbed buffers for the following:			
River (Ordinary High Water Line): feet wide			
Stream (Ordinary High Water Line): feet wide			
Natural drainage: feet wide			
Riparian Vegetation: feet wide			
Have the undisturbed buffers been marked on the ground with permanent or temporary bo	oundary markers?	☐ yes	☐ no
Have conservation/protection buffers been established?	not applicable	yes	no
If yes: check all that apply:			
unstable slones wildlife habitat water quality	Other:		

Describe the nature and configuration of the conservation buffer(s):

3e. Visual Screening
Does a natural landform or vegetative screen currently exist?
Along the permit boundary □ yes ☑ no
Within the permit boundary
Along the property boundary □ yes ☑ no
Within the property boundary □ yes ☑ no
If yes to any of the above: Describe:
Will a berm be constructed along the permit boundaries to develop a visual screen? ☐ yes ☒ no
If yes: The average height of the constructed screen/berm will be feet tall and feet wide.
Will a vegetative screen be established along the permit boundaries to develop a visual screen?
If yes: If planting trees, what is the estimated height at maturity? feet tall
Please describe (include species and planting densities):
Will a fence be installed along the permit boundary for safety or visual screening?
Will the screening/fencing/berm be maintained for the life of the surface mine? ☐ not applicable ☐ yes ☒ no
If no: Explain:
·
3f. Vegetation
Will vegetation be removed sequentially from areas to be mined to prevent unnecessary erosion?
If no: Explain:
Will small trees and other transplantable vegetation be salvaged for use in revegetating other phases?
Wood and other organic debris will be (check all that apply):
□ recycled □ removed from site □ chipped □ burned □ buried
□ piled and composted on site for growth medium or mulch □ other: □ other: □ other: □
Note: A DEQ permit is generally required for burial of debris and may be required for burning.
Will coarse wood (logs, stumps) and other large debris be salvaged for fish and wildlife
habitat?
3g. Soil and Overburden Salvage and Stabilization
Identify and characterize the type(s) of soil present within the site area per NRCS Web Soil Survey:
NRCS Web Soil Survey data not available for Permit Area. Data obtained from Geology and Soils Baseline Report,
Mark J. Abrams, October 2018. The Farmell-Chardodon, 8 to 15% slopes (30%), Farmell-Chardoton extremely stony
soil, 4-15% slopes (37%), Farmell-Chardodon very cobbly soil, 15-13% slopes (32%) and Farmell-Chardodon outcrop
complex, 8-30% slopes (1%) are present within the footprints of the cover borrow areas and are described as
marginal to unsuitable for reclamation suitability (Geology and Soils Baseline Report, Mark J. Abrams, October
2018).
Golder excavated twelve test pits in the proposed borrow areas, logged the soils in each test pit, and had 8
laboratory sieve analyses (ASTM D6913), Atterberg limits (ASTM D4318), and moisture content (ASTM D4643) tests
completed. The test pits show 1 to 3 feet of silt topsoil overlying a variable thickness of "alluvium" composed of
predominantly sand with gravel and cobbles ranging in thickness from 2 ft to greater than 12 feet thick (limit of
excavator reach). Weathered basalt bedrock underlies the alluvium in test pits completed within the designated
borrow areas. Exploration logs and laboratory testing results are presented in the Grassy Mountain Tailings
Storgae and Temporary Waste Rock Storage Facilities Design Report by Golder Associates Inc., revised September
2021.
Will growth medium and overburden materials be salvaged? 🗵 yes 🔲 no
Fig. 1. The state of the state
Explain: Topsoil and colluvial soils will be excavated for use as reclamation cover. Sufficient colluvial soils will be left in cover borrows above the bedrock surface to support revegetation.

If yes: Specify the location for storage: Incorporated with Basalt Quarry product

Will any waste products such as tailings or crusher fines be generated during mining?

Are the storage/stockpile areas delineated on the attached map(s)?

If yes: Specify the location for storage:

⊠ no

□ no

□ yes

yes

3i. Best Management Practices and Stormwater Controls					
Will all stormwater runoff be contained on site? ☑ yes □ n					
If no: A DEQ (NPDES)Permit may be requi	red.				
Methods to control erosion and minimize	sedimentation within the permit area includ	e (check all that apply):			
	☑ divert natural runoff around the site	graveled roads and working areas			
☐ internal sloping	conveyance ditches	rock check dams			
☐ water bars	☐ settling/infiltration ponds	retention berms			
		other: All Stormwater will be			
Seeding and mulching		managed under the Site-Wide			
	other. Sittleheing	Surface Water Management Plan for			
		the Division 37 Permit Area			

Section 4: Reclamation Plan		
4a. Post-Mining Land Use		
Subsequent Land Use(s) of the permit area (check all that apply):		
□ range/open space □ forestry □ industrial □ wildlife/wetland □ results are space □ forestry □ industrial □ wildlife/wetland □ results are space □ forestry □ industrial □ wildlife/wetland □ results are space □ forestry □ industrial □ wildlife/wetland □ results are space □ forestry □ industrial □ wildlife/wetland □ results are space □ forestry □ industrial □ wildlife/wetland □ results are space □ forestry □ industrial □ wildlife/wetland □ results are space □ forestry □ industrial □ wildlife/wetland □ results are space □ forestry □ industrial □ wildlife/wetland □ results are space □ forestry □ industrial □ wildlife/wetland □ results are space □ forestry □ forestry □ industrial □ wildlife/wetland □ results are space □ forestry □ for	ecreation	
☐ residential ☐ commercial ☐ agriculture ☐ other: ☐ other	ther:	_
If more than one post-mining land use is selected provide a map delineating where each use is applicable.		
What will be the average elevation of the reclaimed mine floor relative to mean sea level? 3,700 feet		
Is the proposed post-mining land use compatible with the existing local land use jurisdiction?	⊠ yes	☐ no
If no: Explain:		
Is the final local land use approval for surface mining attached?	☐ yes	🛛 no
If no: Explain: BLM post-mining land use		
4b. Reclamation Schedule		
Will reclamation activities be conducted concurrently with mining?	yes	🛛 no
If no: How many days after mining is completed will reclamation operations begin? Per ORS 517.820(1), Reclamation	amation t	0
begin no greater than 3 years after mining is complete		
If yes: Has the permit area been divided into cells/phases for sequential mining?	☐ yes	⊠ no
4c. Final Excavation Slopes		
Will final excavation slopes be constructed using the benching method?	yes	🛛 no
If yes: The average dimensions of the final benches will be approximately foot vertical faces separated by	/ foo	ot
horizontal benches resulting in an interim sloping configuration ofH:V (e.g. 1½H:1V, 2H:1V).		
Will final slopes be constructed via a continuous slope?	🛛 yes	☐ no
If yes: The completion of Section 4d is required.		
Will reclamation blasting be used to reduce the entire highwall to a scree or rubble slope less than 2H:1V?	yes	🛛 no
If yes: Will access to benches be maintained for reclamation blasting?	☐ yes	☐ no
Will selective blasting will be used to remove benches and walls and to create chutes, buttresses, spurs, scree	yes	🛛 no
slopes, and rough cliff faces that appear natural or blend in with surrounding topography?		
Will final excavation slopes be steeper than 1½H:1V?	☐ yes	🛛 no
If yes: The DOGAMI Slope Stability Supplemental Form must be submitted with this application.		
Will small portions of benches or vertical faces be left to provide habitat for raptors and other cliff-dwelling	☐ yes	🛛 no
birds?		
Will the final excavation slopes vary in steepness?	yes	🛛 no
If yes: Explain:		
Are cross-sections of the final excavation slopes attached? (may be required)	🛛 yes	☐ no
Will measures be taken to limit access to the top and bottom of hazardous slopes?	yes	🛛 no
Explain: No hazardous slopes will be developed		
4d. Final Fill Slopes		
Will above-water final fill slopes be constructed on site?	🛛 yes	☐ no
If no: Skip to 4e.		
Will final fill slopes be steeper than 2H:1V or exceed 100 lineal feet in length?	☐ yes	🛛 no
What will be the final sloping configuration of fill slopes? $\underline{3}H:\underline{1}V$ (e.g. $2H:1V$)		
If yes: The DOGAMI Slope Stability Supplemental Form must be submitted with this application.		

DOGAMI - MLRR • 229 BROADALBIN ST. SW • ALBANY OREGON 97321 • PHONE: 541-967-2039 • FAX: 541-967-2075 • EMAIL: mlrr.info@oregon.gov ☐ yes ☒ no Will the final fill slopes vary in steepness? If yes: Explain: Will fill slopes have a sinuous appearance in both profile and plan view? ⊠ ves no If no: Explain: They will generally conform with the existing natural slopes but will be lowered 3 to 15 feet Will the final grouser tracks of equipment be preserved and oriented to trap moisture, growth medium, and 🛛 ves 🔲 no seeds, to encourage seed germination and inhibit erosion (track walking)? **4e. Working Floors** Will flat working areas be formed into gently rolling hills to blend in with the surrounding area? ∨es □ no If yes: Give details: Flat working areas will generally not be developed. The excavation will involve stripping the upper several feet resulting in final slopes that conform with the existing natural slopes but will be lowered 3 to 15 feet. ☐ yes ☒ no Will the working floor be gently graded into sinuous drainage channels to preclude sheet-wash erosion during heavy rain events? If yes: Give details: ✓ yes □ no Will the working floor and other compacted areas be, plowed, ripped, or blasted to decompact the upper surface prior to spreading growth mediums to foster revegetation? Explain (If yes, include depth of decompaction): Suitable growth medium will be left in the bottom of the borrow excavations to support revegetation. Compacted areas will be ripped a minimum of 1-foot. 4f. Imported Fill ☐ yes ☒ no Will imported materials be necessary to complete reclamation? If no: Skip to 4g. If yes: Give volumes needed to meet reclamation plan: ___ □ ves □ no Are the locations for fill stockpiling and permanent placement shown on the map(s)? How will the quality of imported fill be monitored to ensure it meets DEQ clean fill standards? ☐ yes ☐ no Will the backfill materials be mixed or screened to ensure uniformity for compaction and stability? 4g. Backfilling Operations ☐ yes ⊠ no Will an excavation area be located below natural grade requiring backfilling? If no: Skip to 4h What will be the total depth of backfilled materials? feet. □ ves □ no Will backfilling be conducted in lifts? **If yes:** Specify the average depth of the lifts: feet. ☐ yes ☐ no Will the backfilled slopes be compacted? Explain: □ ves □ no Will compaction testing be conducted under supervision/direction of an Oregon Certified Engineering Geologist or Geotechnical Engineer to determine the compaction percentage? (may be required subject to post-mining land use) ☐ yes ☐ no Will backfilling be completed utilizing on site overburden materials? If yes: Explain: □ yes □ no Will you be backfilling into water? If no: Skip to 4h Will dewatering be necessary for the backfilling operations? ves □ no If yes: A DOGAMI Groundwater Supplemental Form is required to be submitted with this application and a DEQ NPDES Permit may be required.

DOGAMI - MLRR • 229 BROADALBIN ST. SW • ALBANY OREGON 97321 • PHONE: 541-967-2039 • FAX: 541-967-2075 • EMAIL: mlrr.info@oregon.gov □ ves □ no Will backfilling be limited to the dry season or otherwise conducted under dry conditions? If no: A DOGAMI Slope Stability Supplemental Form may be required. Will the excavation pit/pond be entirely backfilled to natural ground surface elevation? ☐ yes ☐ no If no: The completion of Section 4h is required for in-water sloping configurations. 4h. Ponds and Wetlands Will stormwater controls or excavation operations intersect the groundwater table resulting in the creation of □ ves ☒ no ponds and/or wetlands? If no: Go to Section 4i. Specify the construction method and dimensions for each settling/infiltration pond to remain on site: Pond #1 will be approximately _____ acres in size and approximately _____ feet deep and constructed via: \square excavation \square retention berms \square combination of both Pond #2 will be approximately acres in size and approximately feet deep and constructed via: \square excavation \square retention berms \square combination of both All in-water sloping configurations will be constructed at _____ H: _____ V or flatter to a minimum depth of feet below the low-water level of the ponds(s). Per OAR 632-030-0027(5), all in-water sloping configurations must be established at 3H:1V or flatter from the ordinary highwater level to six feet below the ordinary low-water level for permanent water impoundments. ☐ yes ☐ no If not already present, will soils, silts, and clay-bearing materials be placed below water level to enhance revegetation for fish and wildlife habitat? If yes: Give details: □ ves □ no Will wetlands be constructed on site? **If yes:** Give details: Will wildlife and fish habitat/enhancements be developed? □ ves □ no If yes: Check all that apply: ☐ varied water depths islands peninsulas fish structures shallow areas (<18 inches ☐ sinuous/irregular other: other: What species are the habitat/enhancements intended to benefit? Will final pond(s) be utilized for agriculture, forestry or supply water (impoundment)? □ yes □ no If no: Skip to 4i. Has approval from other agencies with jurisdiction to regulate impoundment of water been obtained? □ ves □ no If yes: Attach written approval. What measures will be taken to prevent seepage from the site from adversely affecting the stability of impoundments and adjacent slopes? (check all that apply): relief drains monitoring weep holes compaction grouting installing upstream blanket none Give details: What measures have been taken to design impoundments to resist seismic hazards? 4i. Growth Medium Replacement ☐ yes
☐ no

Oregon Department of Geology and Mineral Industries | Operating Permit Application (09/2018)

Will the importation of growth medium be required to complete reclamation?

Explain (if yes, describe source):

Will growth medium materials be replaced on all above-water slopes and/or benches?	🛛 yes 🔲 no
If no: Explain: Sufficient (>1 feet) of suitable growth medium material will be left in the borrow above	the bedrock
surface to allow revegetation	
Will growth medium be distributed evenly over the site?	🛛 yes 🔲 no
If no: Specify:	
Soil will be replaced on the mine floor to an approximate depth of 12 🗵 inches 🔲 feet	
Soil will be replaced on established benches to an approximate depth of 12 inches feet	
If growth medium is in short supply, will it be strategically placed to conserve moisture and promote	☐ yes ☒ no
revegetation?	·
If no: Explain: Growth medium is not expected to be in short supply	
Will growth medium be moved when conditions are exceptionally wet or dry?	☐ yes ☒ no
If yes: Explain:	,
If applicable: will clay/silt from settling ponds be used to supplement the growth medium materials?	☐ yes ☒ no
Will any additional materials be utilized as a growth medium substitute to complete not applicable	yes 🛮 no
revegetation (e.g. reject fines)?	
If yes: Explain:	
Will all growth medium be replaced with equipment that will minimize compaction, or will growth medium be	⊠ yes □ no
plowed, disced, or ripped following placement?	∠ yes ∟ 110
If no: Explain:	
Will all replaced growth medium be stabilized in a timely manner with vegetation and/or mulch to prevent	
loss by erosion, slumping, or crusting?	Z yes 🗀 110
If no: Explain:	
n no. Explain.	
4i. Revegetation	
4j. Revegetation The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data. N	May 21, 2018.
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, N	May 21, 2018,
The average precipitation on site is <u>9.7 inches</u> (average of climate data [Grassy Mountain Climate Data, Note of the original	
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No Golder Associates Inc]) inches per year. Will the site be revegetated?	
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No. 10 Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because:	
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary.	
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No. 10] Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine.	⊠ yes □ no
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, N Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter	
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes?	
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes? If yes: Give details: Revegetation methods will be consistent with those provided in Section 5.7 of the	
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes? If yes: Give details: Revegetation methods will be consistent with those provided in Section 5.7 of the Vegetation Baseline report for the Grassy Mountain Mine Project by EM Strategies, revised October	
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, Noolder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes? If yes: Give details: Revegetation methods will be consistent with those provided in Section 5.7 of the Vegetation Baseline report for the Grassy Mountain Mine Project by EM Strategies, revised October Explain:	✓ yes □ no ✓ yes □ no Terrestrial 2018. If no:
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes? If yes: Give details: Revegetation methods will be consistent with those provided in Section 5.7 of the Vegetation Baseline report for the Grassy Mountain Mine Project by EM Strategies, revised October	
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes? If yes: Give details: Revegetation methods will be consistent with those provided in Section 5.7 of the Vegetation Baseline report for the Grassy Mountain Mine Project by EM Strategies, revised October Explain: Will vegetation test plots be used to determine optimum vegetation plans?	✓ yes □ no ✓ yes □ no Terrestrial 2018. If no:
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, Normal Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes? If yes: Give details: Revegetation methods will be consistent with those provided in Section 5.7 of the Vegetation Baseline report for the Grassy Mountain Mine Project by EM Strategies, revised October Explain: Will vegetation test plots be used to determine optimum vegetation plans? 4k. Planting and/or Seeding Techniques and Specifications	yes □ no yes □ no Terrestrial 2018. If no: □ yes ☑ no
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes? If yes: Give details: Revegetation methods will be consistent with those provided in Section 5.7 of the Vegetation Baseline report for the Grassy Mountain Mine Project by EM Strategies, revised October Explain: Will vegetation test plots be used to determine optimum vegetation plans? 4k. Planting and/or Seeding Techniques and Specifications Describe the method and time of year for planting and/or seeding: Revegetation methods will be consistent	yes □ no yes □ no Terrestrial 2018. If no: □ yes ☒ no t with those
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes? If yes: Give details: Revegetation methods will be consistent with those provided in Section 5.7 of the Vegetation Baseline report for the Grassy Mountain Mine Project by EM Strategies, revised October Explain: Will vegetation test plots be used to determine optimum vegetation plans? 4k. Planting and/or Seeding Techniques and Specifications Describe the method and time of year for planting and/or seeding: Revegetation methods will be consisten provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5	yes □ no yes □ no Terrestrial 2018. If no: □ yes ☒ no t with those
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, Noolder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes? If yes: Give details: Revegetation methods will be consistent with those provided in Section 5.7 of the Vegetation Baseline report for the Grassy Mountain Mine Project by EM Strategies, revised October Explain: Will vegetation test plots be used to determine optimum vegetation plans? 4k. Planting and/or Seeding Techniques and Specifications Describe the method and time of year for planting and/or seeding: Revegetation methods will be consistent provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine P Strategies, revised October 2018	yes no yes no Terrestrial 2018. If no: yes no t with those project by EM
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes? If yes: Give details: Revegetation methods will be consistent with those provided in Section 5.7 of the Vegetation Baseline report for the Grassy Mountain Mine Project by EM Strategies, revised October Explain: Will vegetation test plots be used to determine optimum vegetation plans? 4k. Planting and/or Seeding Techniques and Specifications Describe the method and time of year for planting and/or seeding: Revegetation methods will be consisten provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine Provided in Section 5	yes no yes no Terrestrial 2018. If no: yes no t with those project by EM
The average precipitation on site is 9.7 inches (average of climate data [Grassy Mountain Climate Data, No Golder Associates Inc]) inches per year. Will the site be revegetated? If no: The site will not be revegetated because: Demonstration plots and areas will be used to show that active revegetation is not necessary. Revegetation is inappropriate for the approved subsequent use of this surface mine. Will revegetation activities start during the first proper growing season (e.g. fall for grasses, fall or late winter for trees and shrubs) following restoration of slopes? If yes: Give details: Revegetation methods will be consistent with those provided in Section 5.7 of the Vegetation Baseline report for the Grassy Mountain Mine Project by EM Strategies, revised October Explain: Will vegetation test plots be used to determine optimum vegetation plans? 4k. Planting and/or Seeding Techniques and Specifications Describe the method and time of year for planting and/or seeding: Revegetation methods will be consistent provided in Section 5.7 of the Terrestrial Vegetation Baseline report for the Grassy Mountain Mine P Strategies, revised October 2018 Give seeding details (lbs/acre of grass, legume, or forb mixture): Revegetation methods will be consistent vegetation methods will be consistent vegetation.	yes no yes no Terrestrial 2018. If no: yes no t with those project by EM

DOGAMI - MLRR • 229 BROADALBIN ST. SW • ALBANY OREGON 97321 • PHONE: 541-967-2039 • FAX: 541-967-2075 • EMAIL: mlrr.info@oregon.gov Additional planting/seeding techniques include: ripping, discing and/or tilling blasting to create permeability mulching irrigation fertilization planting dormant trees and shrubs importation of clay or organic-rich other growth medium conditioners seeds to be protected with growth growth medium or amendments medium or mulch other: Describe the noxious weed and invasive plant control measures: Noxious weed and invasive plant control measures are described in the Grassy Mountain Mine, Malheur County, Oregon, Noxious Weed Monitoring and Control Program, prepared by EM Strategies, revised June 2021 4l. Drainage and Stormwater Controls Will the reclaimed surface mine site be internally drained? ves
 ☐ not applicable ☒ yes Will natural runoff be directed to a natural drainage or safe outlet upon completion of reclamation? If applicable: Explain: Final grading will generally conform to the native topography but will be 3 to 15 feet lower. Borrows will have free draining outlet at the downgradient sides of the excavations No. Will the construction of ditches and channels be necessary to limit erosion and siltation? ves If applicable: Explain: \boxtimes not applicable \square yes \square no Will conveyance ditches and channels be lined with vegetation or riprap? If applicable: Explain: ⊠ no Will it be necessary to stabilize or rehabilitate stream channels or banks? ☐ ves If yes: Give details: 4m. Site Cleanup Will all mining-related equipment be removed from the site? 🛛 yes 🔲 no If no: Explain: Will all structures and buildings be removed from the site? If no: Explain: Will all visual and/or retention berms be removed from the site? ⊠ ves ☐ no If no: Explain: ∨es Will all debris, refuse, and/or hazardous material be removed from the site? If no: Explain: ⊠ ves □ no Will all stockpiles be sold, graded, and or removed from the site? If no: Explain: ✓ yes □ no Will all oversize be sold, reduced, or removed from the site? If no: Explain:

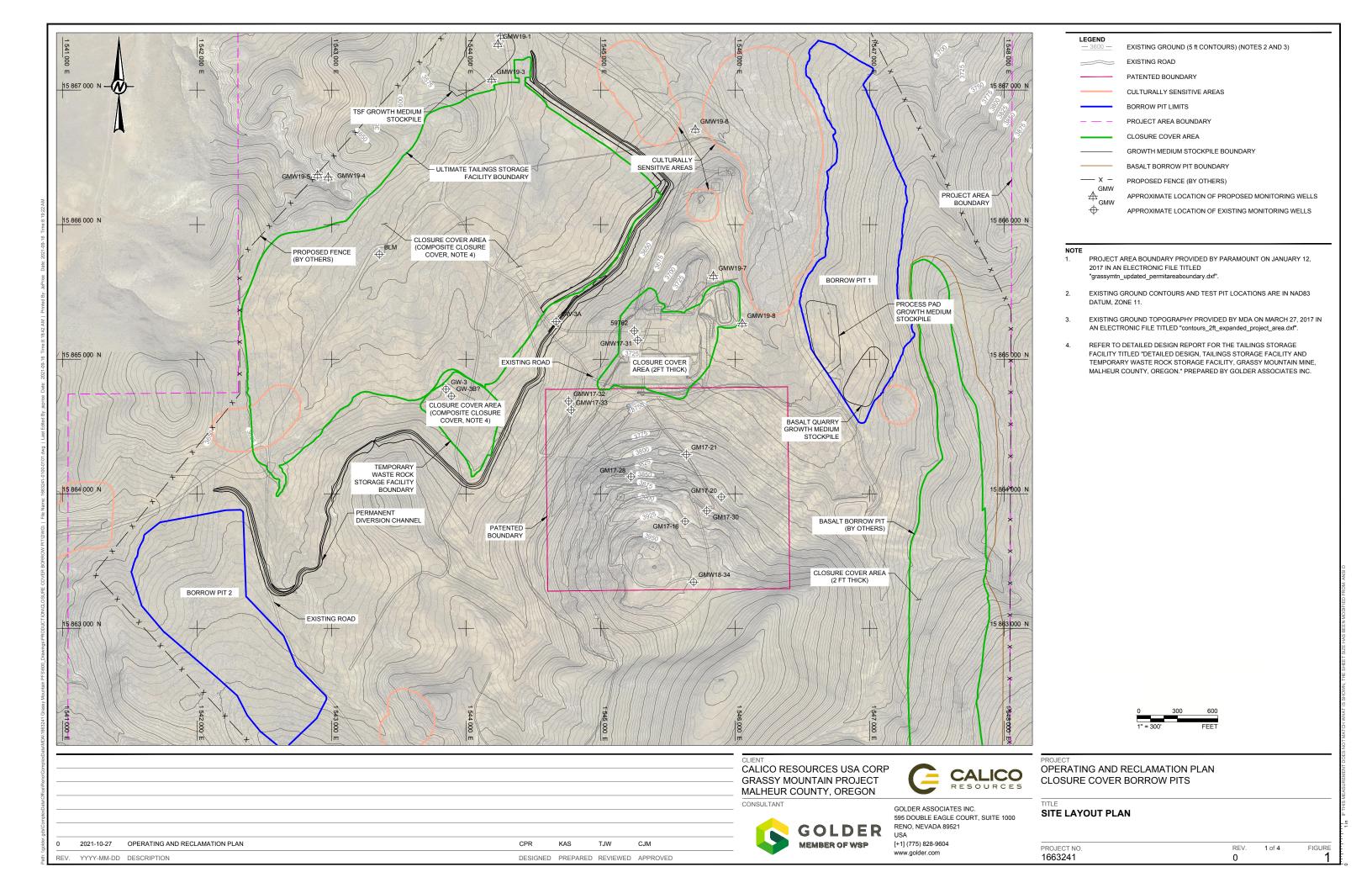
Signature Page	
APPLICANT	
I am applying for an Operating Permit under ORS 517.790. My sig application is accurate and true to the best of my knowledge. Any grounds for denial for an Operating Permit.	· · · · · · · · · · · · · · · · · · ·
Glen van Treek Applicant's Printed Name	Applicant's Signature
President Title	12/15/2021 Date
PREPARED BY	
I prepared this application for the applicant above. My signature accurate and true to the best of my knowledge. Any misrepresent for an Operating Permit. Christopher MacMahon	
Preparer's Printed Name	Preparer's Signature
Associate and Senior Consultant Title	12/15/2021 Date
LANDOWNER(S)	
granting consent to the mining activities as outlined in this applica Landowner (1) Printed Name	Landowner (1) Signature
Title	Date
Landowner (2) Printed Name	Landowner (2) Signature
Title	Date
MINERAL ESTATE OWNER(S) I have read, understand, and acknowledge receipt of all informatic granting consent to the mining activities as outlined in this application.	tion on my property.
Mineral Estate Owner (1) Printed Name	Mineral Estate Owner (1) Signature
Title	Date
Mineral Estate Owner (2) Printed Name	Mineral Estate Owner (2) Signature

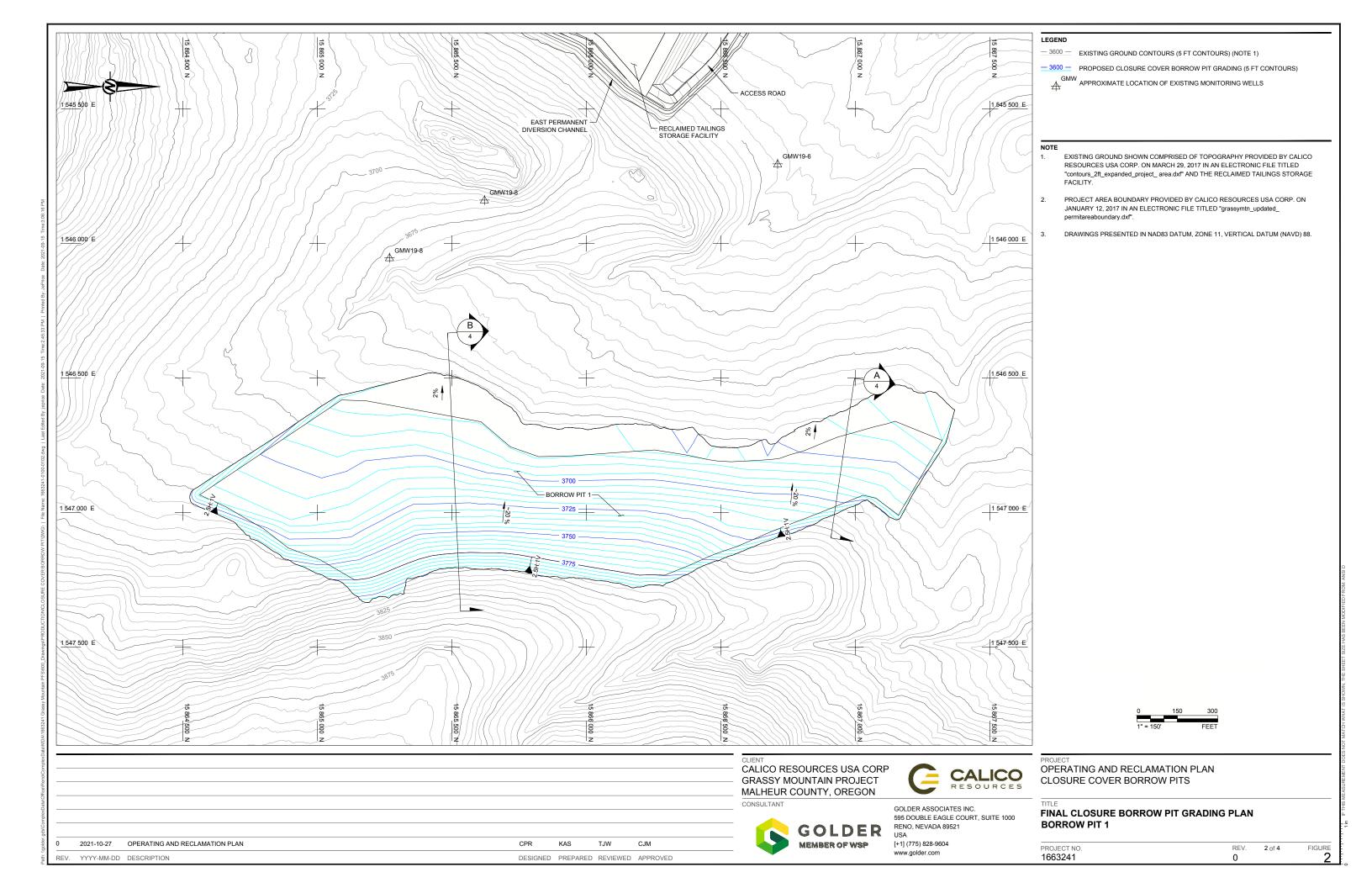
Title

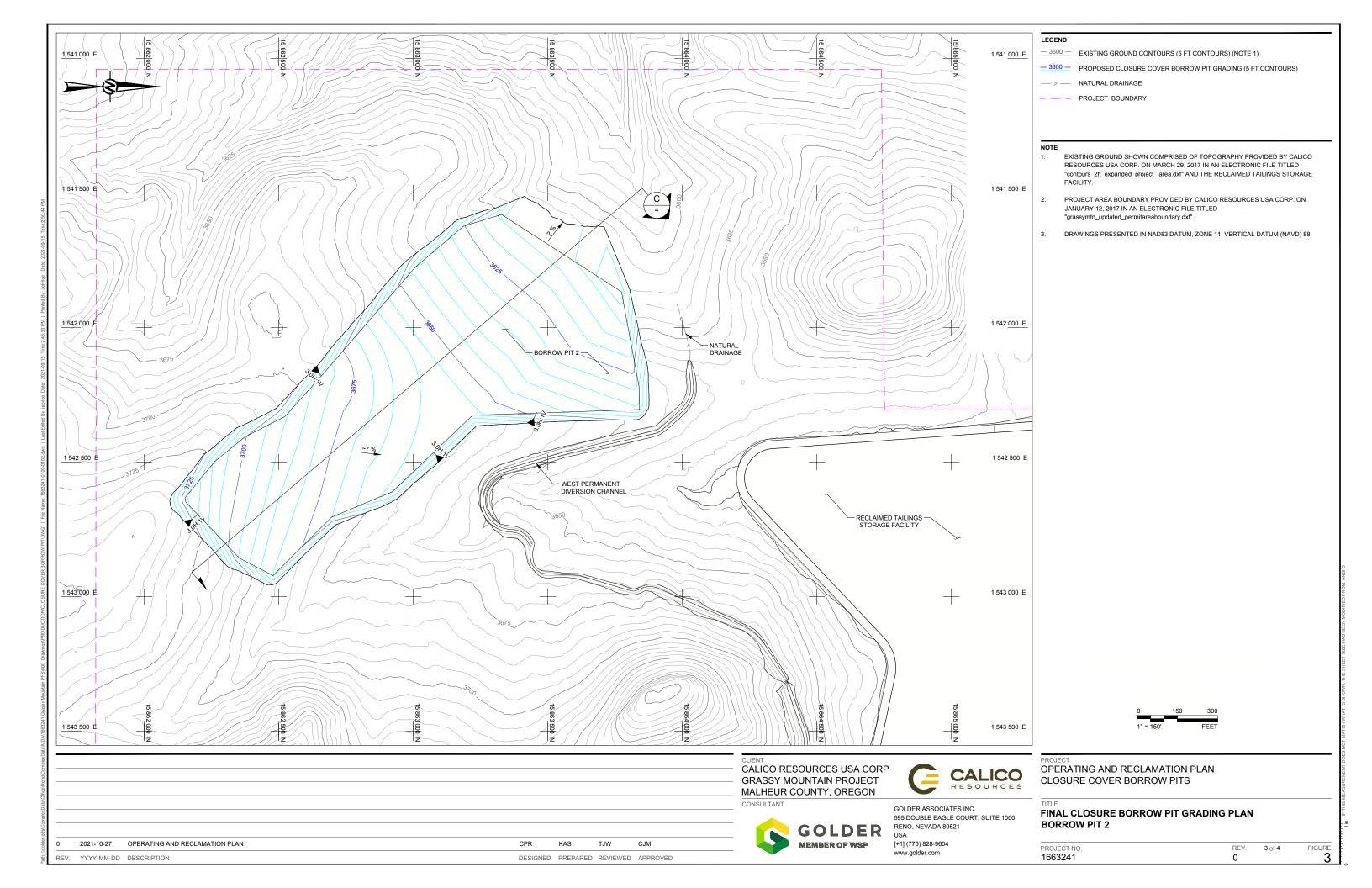
Attach additional signature pages as necessary

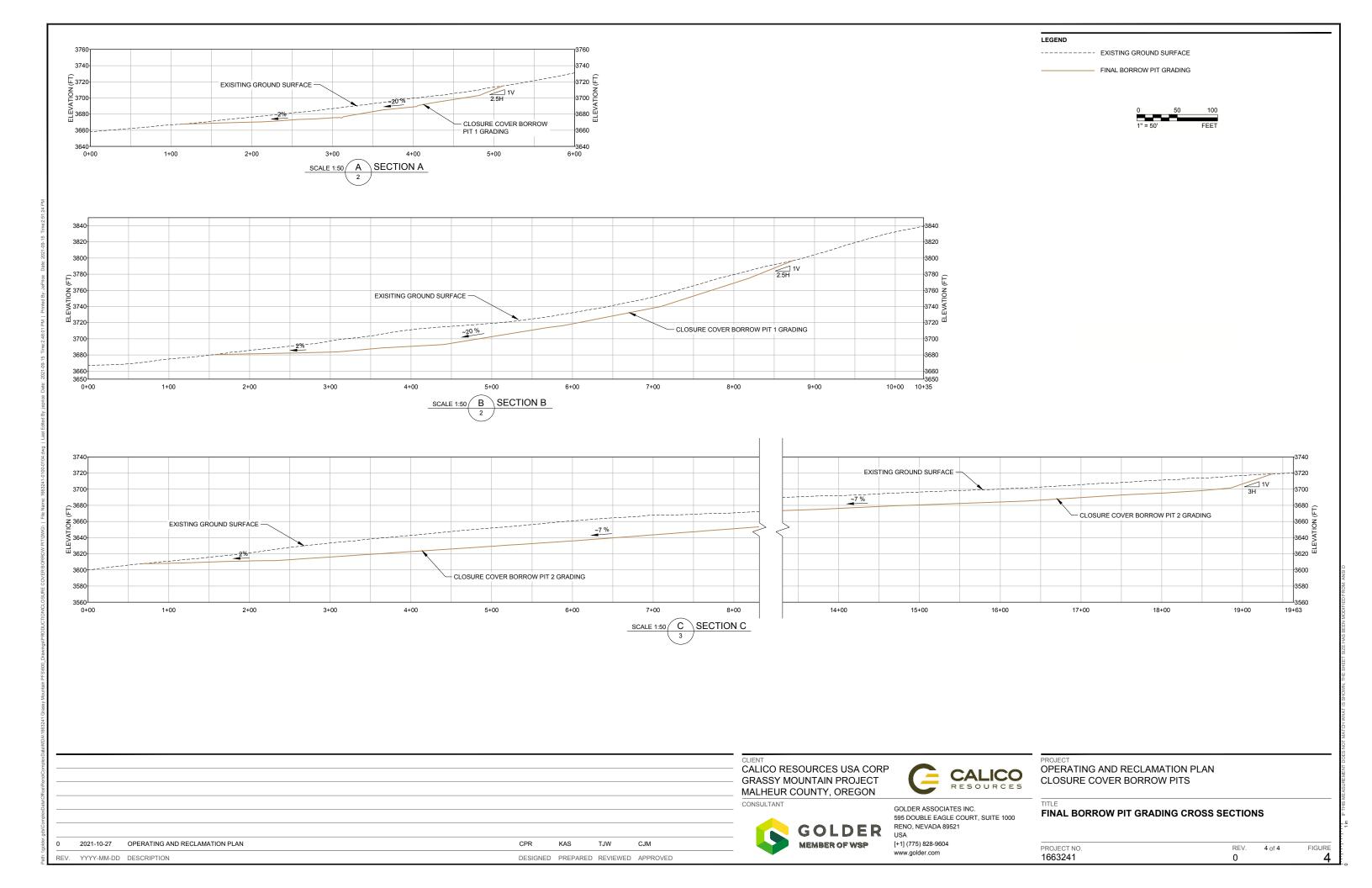
Date

Operating and Reclamation Plan Set (Figures 1-6)













Oregon Department of Geology and Mineral Industries

Mineral Land Regulation and Reclamation Program

229 Broadalbin Street SW

Albany, OR 97321-2246

(541) 967-2039

Fax (541) 967-2075

Groundwater Supplemental Form

DOGAMI has a statutory directive to avoid or minimize adverse impacts to air, water, land, and wildlife resources from surface mining operations. Groundwater is a natural resource that can be affected by mining and as a result, dewatering is regulated by this department. Permittees should be aware that dewatering is generally allowed only if it is specified in their permit. DOGAMI defines dewatering to be the withdrawal of groundwater with a resultant decline in the water table or hydraulic head within an aquifer.

To ensure the protection of groundwater, it is necessary for permittees to consider certain issues prior to conducting this activity. These issues are both regulatory and technical in nature and include permitting, collection of baseline data, monitoring and/or modeling. This form is to be used as a component of a DOGAMI Operating Permit or Amendment application for proposed surface mining operations which will involve encountering and/or impacting groundwater resources.

Section 1: Contact & Site Information						
1a. Applicant / Proposed Permittee						
Name: Calico Resources USA Corp						
Mailing Address: 665 Anderson Street		City:	Winnemucca	State: NV	Zip: 89445	
Telephone: 775-625-3600 Fax: N/A			Email: glen@parar	nountnevada.c	om	
Preferred method of contact	🛛 Email					
1c. Site Identifier						
Legal Description						
County: Malheur						
Township: 22S Range: 44E	Section: 8		Tax Lot(s):			
Township: Range:	Section:		Tax Lot(s): _			
Site Name: Grassy Mountain Closure Cover B	orrow					

DOGAMI ID# This supplemental form is part of an abbreviated Operating Permit Application for the closure cover borrow at the Grassy Mountain mine. The closure cover borrow will be situated within the Division 37 permit boundary (Permit Area); however, this supplemental form specifically relates to surface mine operations under the Division 30 regulations. This supplemental form will be submitted with the abbreviated Operating Permit Application and Operating and Reclamation Plan set as an Appendix to the Consolidated Division 37 Permit Application. The Division 37 Permit Area and location of the closure cover borrows are shown on Figure 1.

The information and responses provided in this supplemental form are related to the closure cover borrow and not the entirety of the Division 37 Permit Area.

The groundwater level information provided in this supplemental form is based on information presented in the Revised Groundwater Resources Baseline Report and Comment Responses, Grassy Mountain Mine Project, prepared by SPF Engineering, LLC., revised September 2021. Based on the report, two aquifer zones are identified in the vicinity of the Grassy Mountain Mine; shallow and deep aquifer zones. These zones are pertinent in the context of well completion depth; the current groundwater conceptual model identifies a single heterogeneous and locally complex aquifer system. This aquifer system is characterized by various water-bearing zones, with water levels strongly influenced by vertical gradients. The groundwater level information provided herein is focused on the data available for the shallow wells near the closure cover borrows as shown on Figure 1. The wells are screened at depths of less than 200 feet in a variety of lithologies.

Several wells are within the footprint of Borrow Areas 1 and 2 (57-10, GW-1, PW-3, 26-092-915) that indicate groundwater depths greater than 40 feet. There are no groundwater wells within the foorprint of Borrow Area 3.

Based on modeled groundwater elevation contours (Appendix E of Groundwater Baseline Report) the groundwater elevations for the maximum are below 3,520 ft asl, greater than 150 feet below original ground surface.

Groundwater is not anticipated to be encountered in the proposed closure cover borrow excavations based on the resources reviewed.

Section 2: Groundwater Informatio	n	
The seasonal high water table is the highest lev	el that water typically rises to eac	h year.
The seasonal low water table is the lowest leve	I that water typically falls to each	year.
The seasonal high water table level is: 3,654 (based on period of record for shallow aquifer wells nearest Borrows 1 and 2 [57-10, GW-1, PW-1, 26-092-915) feet	☑ relative to mean sea level	☐ below original ground surface
20 032 313)	unknown	
The seasonal low water table level is: 3,652 (based on period of record for shallow aquifer wells near quarry [57-10, GW-1, PW-1, 26-092-915) feet	☑ relative to mean sea level ☐ unknown	☐ below original ground surface
Estimated annual fluctuation of water table is <u>3</u> feet from		unknown
Direction of groundwater flow: Groundwater in the s		
follows surface topography and flows from topography		unknown
flow direction is to the northwest.	0 111 111	
How did you determine the seasonal high and low water well logs field observation(s)-Describe: landowner observation(s)-Describe:	r table levels? ightharpoonup piezometer	other
Have monitoring wells been constructed on-site?		☐ yes ☒ no
If yes: What is the average depth of static groundwater about 45 to 97 feet below top of casing (btoc) in static groundwater 1, GW-1, 57-10, 26-092-915) as shown on Figures 1 different lithologies (fractured basalt, sandstone, swater in piezometers nearest to Borow Areas 1 and feet bgs or (3,633 to 3,655 feet msl).	hallow aquifer wells in the vic Land 2. These wells are screer gravel) and in an area with sig	inity of Borrow Areas 1 and 2 (PW- ned in the shallow aquifer in mificant fault structures. Depth to
Are there off-site groundwater supply wells within 1,500	O-feet of the permit boundary?	🛛 yes 🔲 no
Prod-1 is located approximately 100 feet outside to Supply wells PW-1 and BLM are located within the		☐ not applicable yes ☐ no
If yes: Are well logs attached?	of au	
wellhead protection area special	or a: purce aquifer I protection area able groundwater quantity resour	□ public water supply watershed □ designated aquifer protection area rce area □ none
The site is underlain by: Multiple aquifers	complex hydrogeology	☐ neither ☐ unknown
The shallowest aquifer is:	☑ unconfined	unknown
Section 3: Mining Information	_	
The maximum depth of proposed mining is: 3,600 feet	☑ relative to mean sea level☑ unknown	below original ground surface
T 2 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

Describe mining method (e.g. drilling and blasting, rippi	ng and loading, etc.): Ripping an	d Loading	
Will mining/excavation operations be sequenced/phase	d?	□ y	es 🛛 no
If yes: Please attach map.			
Is dewatering necessary or proposed for the excavation	□ y	es 🛛 no	
If yes: Groundwater will be conveyed or pumped to:			
on-site trench	on-site pond	on-site ditch	
depleted cell	off-site location	waters of the state*	
□ other:	□ other:		
* A DEQ National Pollution Discharge Elimination Syste	em (NPDES) Permit may be requir	ed.	
Is the area receiving dewatering water shown on a map	?	🛮 not applicable 🔲 y	es 🔲 no
If yes: Please attach map.			
Depth groundwater will be lowered to: feet	relative to mean sea level	below original surface	
	unknown	not applicable	
Has a Groundwater Study been completed?		⊠ y	es 🔲 no
If yes: Please attach report.			

Dewatering Plan

If the proposed surface mining operations have the potential to impact water quality and quantity through a resultant decline in the water table or hydraulic head within an aquifer a written dewatering plan may be needed. The scope of the required information will be based on site characteristics and project scale. Basic elements of a dewatering plan may include collection of baseline data and analysis, mine plan sequence, development and restrictions, groundwater modeling, on-site or off-site monitoring and/or mitigation that the planned activity will not adversely affect other groundwater users. Information required may include:

- 1. Identification, review and submittal of adjacent well logs.
- 2. Inventory of adjacent water rights and water use.
- 3. Measure static water levels in adjacent wells and survey in well head locations.
- 4. Determination of the current potentiometric surface.
- 5. Drilling data and completion of one or more monitoring wells.
- 6. Definition and/or delineation of presence/absence of confining bed(s).
- 7. A groundwater monitoring program during mining.
- 8. Development of an area groundwater budget and projection of mining impacts thereon.
- 9. Design and construction of a groundwater recharge structure (i.e. trench) following approval by the department.

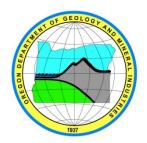
Please note that DOGAMI will review the information presented in the completed form to determine if a written dewatering plan is required for the proposed surface mining operations.

STATE OF OREGON
TER WELL BODORS

(MALH)	22s/44E/5al
(START CARD) #_	925-6

* STATE OF OREGON	1989	951112	\sim \sim \sim \sim	1010	
WATER WELL RÉPORT			925	- 51	
(as required by ORS 537.765) WATER RESOU		(START CARD) #		<u> </u>	
(1) OWNER: Well Number: SALEM, O	₹(9)°ÈOCATI	ON OF WELL by 1	egal descrir	tion:	
Name Atlas Precious Metals	County Mal	heur	" I angitu	.d.	, :.=
Address .743 Horizin Ct. Suite 202	Township 2	2S Nors Page 4	4E	.de	
City Grand Junction State Co Zip 81506	Section 5	heur Latitude	NE	E or W	7, WM.
(2) TYPE OF WORK.	Tor Let	1/4	1/4		
New Well Deepen KRecondition Abandon		Lot Bloc			
(3) DRILL METHOD	Street Address	of Well (or nearest address) _			
(a) DIMPLIMETHOD					
X Rotary Air Rotary Mud Cable		C WATER LEVEL	:	,	
LX Other Auger	40'	ft. below land surface.	Date	12-	-8- s
(4) PROPOSED USE:		re lb. per squ	uare inch. Date		
Domestic Community Industrial Irrigation	(11) WATER	BEARING ZONE	rg.		
☐ Thermal ☐ Injection ☐ Other					-
(5) BORE HOLE CONSTRUCTION:	Depth at which water	was first found	40'		
Special Construction approval Yes No Depth of Completed Well ft.	From	То	Estimated Flo	w Rate	SWI
Yes No L	140-785	255			
Explosives used Type Amount	320	355	30 g	TOP TO	
HOLD TO SEE SEE STORY	380	4/15	150	PM	+
Diameter From To Material From To sacks or pounds	30	 	7309	pm	+
12" 0 18	(10) NIET T	000	L		
10 18 425	(12) WELL I	Ground elevati	ion		
Cement gent 0 26 19		Material	From	То	SWL
	Overburde	n w/ boulder		17	0
How was seal placed: Method A B X C D E	Clay brow		17	140	
Other		w/ blue cla		255	
Otherft. toft. Material Coment Grant	blue clay		255		
Gravel placed from 100 ft. to 245 ft. Size of gravel NO. 8		w/ blue cla		355	
(6) CASING/LINER:	Blue clay		355		
Diameter From To Gauge Steel Plastic Welded Threaded		ard sandston		380	
Casing: 10 1/2 99 250 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Blue clay			415	40
6" +2 245 Sey 80 X	=		415	425	40
	12-5-88	- 12-10-88		 	
	+======			 	
Liner:	1			===	=== =
	Dodono			 	ļ
Final location of stoe(s)	Redone Su	rface seal t	o 26 tee	<u>t</u>	
(7) PERFORATIONS/SCREENS:	using met	hod 2 refe	rring to	let	ter
	sent Janu				ļ
Perforations Method		round 10" ca		the	<u> </u>
Screens Type Aarovark Material PVC Sch 80	depth of				
Slot Tele/pipe From To Size Number Diameter size Casing Liner	pumped 19	sacks of ce	ment dow	n ho	<u>le</u>
	3-30-89	- 3-31-89			
380 420 020 6"	3-30-69				<u> </u>
14 1/00 10 00000 1 - 111	Tngornoma				====
	THEOLDOLA	ted to singe	l log pe	<u>r</u>	
	state req			لـــــا	<u></u>
	Date started 12-	5-88 Comp	$_{\rm oleted}$ $3-31$	<u>-89</u>	
(A) WELL DECISION	(unbonded) Wate	r Well Constructor Cer	tification		
(8) WELL TESTS: Minimum testing time is 1 hour Flowing	I certify that	the work I performed on	the construction	n. altera	ation, o
☐ Pump ☐ Bailer 💢 Air ☐ Artesian	abandonment of the	is well is in compliance	e with Oregon v	vell cons	struction
Yield gal/min Drawdown Drill stem at Time	knowledge and belie	s used and information re	ported above are	e true to	my bes
	anowieuge and bene		WWC No.	mhan /á	201
100 40 300 1hr.	Signed Sob	() of	WWC Nur Date	/O	- 84
	(bonded) Water W	ell Constructor Certifi	ication:		
Temperature of water Depth Artesian Flow Found	I accept respon	sibility for the construct	tion, alteration,	or aband	lonmen
Was a water analysis done? Yes By whom	work performed d	this well during the const uring this time is in	compliance	ported al	bove. al
Did any strata contain water not suitable for intended use? Too little	construction standa	rds. This report is true t	o the best of m	y knowle	ou wei
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other	belief.	. 1 1 41	A WWC Nur		
Depth of strata:	Signed Sold	tex look Silli	totale 4/	L5/89)





Oregon Department of Geology and Mineral Industries

Mineral Land Regulation and Reclamation Program

229 Broadalbin Street SW

Albany, OR 97321-2246

(541) 967-2039

Fax (541) 967-2075

Wetland Supplemental Form

DOGAMI has a statutory directive to avoid or minimize adverse impacts to air, water, land, and wildlife resources from surface mining operations. Wetlands are defined as areas where water covers the soil, or is present either at or near the surface of the soil all year or for varying periods of the year. Due to soil variations, topography, climate, hydrology, water chemistry, vegetation and other factors, including human disturbance, wetlands can vary widely. Non-tidal wetlands are most commonly found along rivers and streams, along the margins of ponds and lakes, within isolated depressions surrounded by dry land, or in other low-lying areas where the groundwater intercepts the soil surface or where precipitation saturates the soils.

Although many wetlands are seasonal and may only be wet periodically, the function of a wetland and its role in the environment is significant. Wetlands provide numerous benefits to both humans and the environment including improving water quality via filtering out pollutants and providing critical habitat for both terrestrial and aquatic wildlife species, some of which are adapted to breeding or living a portion of their life cycle exclusively in these environments. To ensure the protection of wetlands and any wildlife that reside or travel in those areas, it is necessary for applicants to consider certain issues prior to conducting surface mining activities within an area that may contain wetlands. These issues are both regulatory and technical in nature and include permitting, collection of baseline data, monitoring, mapping and/or mitigation. This form is to be used as a component of a DOGAMI Operating Permit or Amendment application for proposed surface mining operations which will involve any mining operations that contain wetlands.

Section 1: Contact &	Site Inform	nation				
1a. Applicant / Proposed Permittee						
Name: Calico Resources USA C	Corp					
Mailing Address: 665 Anderson	Street		City:	Winnemucca	State: NV	Zip: 89445
Telephone: 775-625-3600	Fax: N/A		Email: glen@paramountnevada.com			m
Preferred method of contact	Telephone	🛛 Email				
1c. Site Identifier						
Legal Description						
County: Malheur						
Township: 225 Range:	44E	Section: 8		Tax Lot(s):		
Township: Range:		Section:		Tax Lot(s):		
Site Name: Grassy Mountain C	losure Cover Bo	rrow				

DOGAMI ID# This supplemental form is part of an abbreviated Operating Permit Application for the closure cover borrow at the Grassy Mountain mine. The closure cover borrow areas will be situated within the Division 37 permit boundary (Permit Area); however, this supplemental form specifically relates to surface mine operations under the Division 30 Rules. This supplemental form will be submitted with the abbreviated Operating Permit Application and Operating and Reclamation Plan set as an Appendix to the Consolidated Division 37 Permit Application. The Division 37 Permit Area and location of the closure cover borrows are shown on Figure 1.

The information and responses provided in this supplemental form are related to the closure cover borrow areas and not the entirety of the Division 37 Permit Area.

The wetland information provided in this supplemental form is based on information presented in the Wetland Delineation Report for the Grassy Mountain Mine Project, Malheur County, EM Strategies, Inc. and the Department of State Lands (DSL) concurrence letter (WD #2018-0115) dated May 3, 2018. Based on the letter, no wetlands are present within the vicinity of the closure cover borrow areas. Tributary 2a and the Schweizer Reservoir are within the vicinity of the closure cover borrow areas, but are exempt from OAR 141-085-0515(3 and 7) and are not subject to Removal-Fill requirements per the DSL concurrence letter.

No wetlands are present within the vicinity of the closure cover borrow areas, and therefore no impacts are anticipated.

Section 2: Wetland	Information				
The proposed surface mine site	is located along, within, or adjac	ent to the following:			
river or stream	margin of a lake or pond	☐ floodplain*	marsh or wet meadow		
		other: Tributary 2a and	other: Schweizer		
	none	<u>3</u>	Reservoir (cattle pond)		
*A DOGAMI Floodplain Supplemental Form may be required to be submitted with this application.					
Are there any known wetlands or wetland like features present within or adjacent to the unknown yes in no proposed permit boundary?					
How did you evaluate the site o	or otherwise determine if the site	may contain wetlands?			
☐ National Wetland Inventory	(NWI) Map 🔲 local wetland	survey 🛛 wetla	and delineation		
☐ Environmental Impact State	ement (EIS) 🔲 stream gage d	lata 🔲 count	ty soil surveys		
FEMA flood insurance rate	map USGS quadrar	ngle map 🔲 other	topographic map of the area		
local land use department	☐ other:	other	::		
What is the general type of wet	land found within the site?				
☐ tidal	freshwater forested	shrub wetland	☐ bog		
☐ fen	☐ freshwater springs	☐ freshwater emergent	swamp		
☐ geothermal	☐ alpine	☐ marsh	human made		
□ other:	other:	□ none □	vernal pools		
Section 3: Studies, Reports and Analyses					
Has a Wetland Delineation beer	n completed?		🛛 yes 🔲 no		
If yes: A wetland delineation re	eport including the following is at	tached:			
☐ topography	plant communities	soils mapped and found	hydrology information		
existing wetland mapping	field data sheets	■ types of wetlands identified	aerial photography		
data collection point map	evaluation area map	other:	other:		

M D : 1 DSI C # M/D #2010 011E	🛛 yes 🔲 no					
If yes: Provide DSL Concurrence # WD #2018-0115						
If no: Explain:						
Has the wetland delineation been submitted to the Army Corps of Engineers for concurrence?	🗌 yes 🛛 no					
If yes: Provide USACE Concurrence #						
If no: Explain: Not submitted to USACE (no federal jurisdiction)						
Will any streams, creeks, or drainages be excavated, filled or relocated?	🛛 yes 🔲 no					
Is the planned surface mining operation proposing to impact jurisdictional wetlands? $oxed{oxed}$ not applical	ble* □ yes □ no					
If yes: Has a DSL permit been \square applied for \square obtained	☐ yes ☐ no					
If yes: Please attach approved permit, application or File#.						
*No jurisdictional wetlands were identified during the delineation						
Section 4: Mapping						
Is a high resolution topographic or lidar map of the existing conditions and surrounding lands at an	🛛 yes 🔲 no					
appropriate scale available? If yes: Please attach See Figures 1 and 2						
Is a soil survey map delineating the hydric soils in not applicable (no wetlands were identified	uges ug no					
attached? during the delineation)						
Has any of the following information been mapped? If yes: Please attach	🛛 yes 🔲 no					
_	ydrology information					
	erial photography					
☐ data collection point map 🛛 evaluation area map 🔻 proposed permit boundary 🔲 o	ther:					
Section 5: Mining Information						
The maximum depth of proposed mining is: 3,675 feet: relative to mean sea level below	original ground surface					
The maximum depth of proposed mining is: $3,675$ feet: \square relative to mean sea level \square below \square unknown	original ground surface					
unknown	th					
☐ unknown The site will be mined: ☐ wet ☐ dry ☐ bo	th					
Unknown The site will be mined:	th oading					
Unknown The site will be mined: □ wet ☑ dry □ bo Describe all proposed mining methods (e.g. drilling and blasting, ripping and loading, etc.): Ripping and L Will mining/excavation operations be sequenced/phased?	th oading					
The site will be mined: □ wet ☑ dry □ bo Describe all proposed mining methods (e.g. drilling and blasting, ripping and loading, etc.): Ripping and L Will mining/excavation operations be sequenced/phased? If yes: Attach map.	th coading yes no					
Unknown The site will be mined:	th coading yes no					
□ unknown The site will be mined: □ wet □ dry □ bo Describe all proposed mining methods (e.g. drilling and blasting, ripping and loading, etc.): Ripping and L Will mining/excavation operations be sequenced/phased? If yes: Attach map. Is dewatering necessary or proposed for the excavation operations? If yes, a DOGAMI Groundwater Supplemental Form is required to be submitted with this application, and	th coading yes no					
The site will be mined:	th coading yes no					
□ unknown The site will be mined: □ wet ☒ dry □ bo Describe all proposed mining methods (e.g. drilling and blasting, ripping and loading, etc.): Ripping and L Will mining/excavation operations be sequenced/phased? If yes: Attach map. Is dewatering necessary or proposed for the excavation operations? If yes, a DOGAMI Groundwater Supplemental Form is required to be submitted with this application, and Pollution Discharge Elimination System (NPDES) Permit may be required. Check all proposed on-site activities that apply: ☒ grading ☒ excavation ☐ filling ☒ grading ☐ crushing ☐ washing	th coading yes no					
□ unknown The site will be mined: □ wet ☒ dry □ bo Describe all proposed mining methods (e.g. drilling and blasting, ripping and loading, etc.): Ripping and L Will mining/excavation operations be sequenced/phased? If yes: Attach map. Is dewatering necessary or proposed for the excavation operations? If yes, a DOGAMI Groundwater Supplemental Form is required to be submitted with this application, and Pollution Discharge Elimination System (NPDES) Permit may be required. Check all proposed on-site activities that apply: ☑ excavation □ filling ☒ grading	th oading yes No yes no d a DEQ National					
The site will be mined:	th oading yes No yes no d a DEQ National					
The site will be mined: □ wet ☑ dry □ bo Describe all proposed mining methods (e.g. drilling and blasting, ripping and loading, etc.): Ripping and L Will mining/excavation operations be sequenced/phased? If yes: Attach map. Is dewatering necessary or proposed for the excavation operations? If yes, a DOGAMI Groundwater Supplemental Form is required to be submitted with this application, and Pollution Discharge Elimination System (NPDES) Permit may be required. Check all proposed on-site activities that apply: ☑ excavation ☐ filling ☑ grading ☐ crushing ☐ washing ☐ material recycling ☐ other: ☐ other: ☐ other: ☐ If applicable, will all interim and final in-water cut-slopes be constructed at sloping configurations of 3H:1V flatter to a minimum depth of six feet below the low-water level of the pond(s)?	th oading yes No yes no d a DEQ National					
The site will be mined:	th oading yes no yes no d a DEQ National					
The site will be mined: □ wet ☑ dry □ bo Describe all proposed mining methods (e.g. drilling and blasting, ripping and loading, etc.): Ripping and L Will mining/excavation operations be sequenced/phased? If yes: Attach map. Is dewatering necessary or proposed for the excavation operations? If yes, a DOGAMI Groundwater Supplemental Form is required to be submitted with this application, and Pollution Discharge Elimination System (NPDES) Permit may be required. Check all proposed on-site activities that apply: ☑ excavation ☐ filling ☑ grading ☐ crushing ☐ washing ☐ material recycling ☐ other: ☐ other: ☐ other: ☐ If applicable, will all interim and final in-water cut-slopes be constructed at sloping configurations of 3H:1V flatter to a minimum depth of six feet below the low-water level of the pond(s)?	th oading yes No yes no d a DEQ National or yes no					

Wetland Assessments and Reports

The scope of information required by DOGAMI will be based on site specific characteristics, the scale and configuration of the proposed mining operation, and the proposed reclamation plan. It is important to note that many mining operations require other state and federal permits; therefore, DOGAMI highly recommends a pre-application consultation and site visit with the applicable natural resource agencies be conducted, if possible. DOGAMI can only issue an Operating Permit if all required state, federal, and local government approvals have been obtained, otherwise a Provisional Operating Permit will be issued. All data collection and analysis techniques should be coordinated in advance with DOGAMI's Floodplain Reclamationist (Vaughn Balzer 541-967-2082; vaughn.balzer@oregon.gov).

Please note that DOGAMI will review the information presented in the completed form above to determine if additional reports, studies, maps and/or analysis are required for the proposed surface mining operations. Information required may include:

- 1. Preliminary data collection and synthesis.
- 2. Historic aerial photographs and surveys, including topographic and inventory maps.
- 3. County soil survey maps and site specific hydric soil characteristics, profiles, and classifications.
- 4. Site hydrology; including annual groundwater fluctuations, inundated or saturated soil conditions, precipitation, stratigraphy, soil permeability, and plant cover.
- 5. A description of hydrophytic vegetation, including classification and prevalence.
- 6. Indicators of wetland hydrology, including drainage patterns, drift lines, sediment deposition, water marks, stream gage data, historic records, and visual observations.