

### COUNTY OR MUNICIPALITY APPROVAL FOR SURFACE MINING (Form SM-6)

NAME OF COMPANY OR INDIVIDUAL APPLICAT Same as name of the exploration permit holder. (	NT(S) Type or print in ink.)	TOTAL ACREAGE AND DEPTH OF PERMIT AREA (Include all acreage to be disturbed by mining, setbacks, and buffers, and associated activities during the life of the mine.) (See SM-8A.)				
		Total area permitted will be 22.03acres				
		165		eet		
		Maximun relative t	n depth of ex o mean sea l	covated mine evel	floor is <u>63</u>	feet
		COUN	TY Jefferso	n		
MAILING ADDRESS		No atta	achments wil	be accepted.	Legal descriptio	on of permit area:
P.O. Box 68697		1/4	1/4	Section	Township	Range
Seattle, VVA 98108-0097			sw	13	29N	2W
				-		
Telephone 253-872-7173						
Proposed subsequent use of site upon completion	of reclamation					+ [
Rural Residential 1:20				RECE	IVED	
				Octobe	r 3 2022	
			Washir	octop G	$\begin{array}{c} 1 \ 5, \ 2022 \\ \text{ological} \end{array}$	
			vv a51111	igion G	cological	Survey
Signature of company representative or individual appleont(s) Name and title of company representative (please print) Bob Scarsella, Vice President 7/1/2022			ate signed /1/2022			
TO BE COMPLETED BY THE APPROPRIAT	E COUNTY OR MUNIC	PALITY:				
Please answer the following questions 'yes' or 'no'.						Yes No
<ol> <li>Has the proposed surface mine been a</li> <li>Is the proposed subsequent use of the</li> </ol>	pproved under local zoning	g and land-u	se regulation	is? d. una plan/da	signation?	V
2. Is the proposed subsequent use of the	of Natural Basources	ISIS(EIIL WILL)		a-use plantae	signation:	
News of allocation discourse of the begatiment	( (= (= to the meter))					
Tad D Patak	(pieuse print)	TOH	ersor	Coun	tra	w ek
Josh D. Teles		Ven	Co	mmu	urta D	evelopenent
Signature .				. 1		and provide the second
Josh D. Robers			671 Sheridan St Port Townsend, WX 98368			
Title (please print)						
Code Administrat	or					
Telephone	Date				DNR Reclamat	on Permit No.
360-379-4450 9/20/22 10			ARTMENT	USE ONLY:	70-013	289

County or Municipality Approval (SM-6) Revised 8/17



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### **APPLICATION FOR RECLAMATION PERMIT AND PLAN** (Form SM-8A)

Check appropriate box(es): new permit revision of existing permit transfer of permit expansion

🛛 yes 🗌 no

#### NOTE: Do not attempt to complete this form until you have carefully read "Instructions for Form SM-8A".

1. NAME OF APPLICANT/PERMIT HOLDER(S) Discovery Materials LLC			R(S)	<ul><li>12. TOTAL ACREAGE OF PERMIT AREA APPLIED FOR:</li><li>(Include all acreage to be permitted. See Form SM-6.) <u>22.03</u> acres</li></ul>			
2. MAILING ADDRESS P.O. Box 68697 Seattle, WA 98168-0697				<ul> <li>13. Total disturbed acreage (Include a reclamation during the life of the mine Total area to be disturbed: <u>20.03</u> acres</li> <li>Area to be disturbed in next 36 months</li> </ul>	<ul> <li>13. Total disturbed acreage (Include all acreage to be disturbed by mining and reclamation during the life of the mine.)</li> <li>Total area to be disturbed: <u>20.03</u> acres.</li> <li>Area to be disturbed in next 36 months: <u>10</u> acres.</li> </ul>		
3. Telepho	ne 253-872-	7173 Email I	oob@scarsellabros.com	14. Maximum vertical depth (thickness grade will be <b>165</b> feet.	14. Maximum vertical depth (thickness) mined below pre-mining topographic grade will be 165 feet		
4. NAME Discove	OF MINE ery Bay			<b>15.</b> Lowest elevation of excavated min	<b>15.</b> Lowest elevation of excavated mine will be <b>63</b> feet relative to mean sea		
<ol> <li>Street address and milepost of surface mine</li> <li>281240 Highway 101 Port Townsend, WA</li> </ol>		level. Highest elevation of excavated mine w level.	level. Highest elevation of excavated mine will be <u>330</u> feet relative to mean sea level.				
1.6 mile	s North of I	Highway 101 and High	way 20 junction at Fairmont,	16. Type of proposed or existing mine	: 🛛 pit 🔲 quarry		
WA on 6. Distance 1.6	west side of e (miles)	road. 7. Direction from NW	8. Nearest community Fairmont	17. Material(s) to be mined: ⊠ sand and gravel □ rock or stone         □ clay □ metal □ limestone □ silica         □ other			
9. COUNT	Y Jeffersor	1					
No attachm	ents will be	accepted. Legal Descri	ption of permit area:	18. Deposit type: 🛛 glacial 🗌 ri	18. Deposit type: 🛛 glacial 📋 river floodplain (alluvial)		
1/4 SW	Sectior 13	n Township 29N	2W	☐ river channel deposits ☐ talus ☐ bedrock ☐ lode ☐ other			
				19. Expected start date of mining: 2022	20. Estimated number of years: 30		
10. Do you associated v surface min If you answ	or any perso with you now ing operating vered yes to t	on, partnership, or corpo v hold, or have you held g or reclamation permit he above, please list: 12	oration  , a ?	<ul> <li>21. Total quantity to be mined over life of mine (estimated):</li> <li>2,200,000 □ tons or ⊠ cu yds</li> </ul>	<ul> <li>22. Estimated annual production:</li> <li>73,000 □ tons or ⊠ cu yds</li> </ul>		
11584, 126 11. Are all RCW 78.44 Have you e reclamation	of these min 4, WAC 332- ver had a sur permit revo	es now in compliance v 18, and conditions of th face mine operating or ked?	vith ne permits? 🛛 yes 🗌 no 🗌 yes 🖾 no	23. Subsequent land use:       industri         □ agricultural       □ forestry       □         □ other       County or Municipality Approval for Surface Mining (Form SM-6) attached	al _ commercial 🛛 residential vetlands and lakes ?		
Have you ever had a reclamation security forfeited? Uses in no If you answered yes to either of the above, give permit number(s):		24. Reclaimed elevation of floor of m sea level	ine: Median 215' feet relative to mean				
				Reclaimed elevation is shown on cross	sections?		
				25. SEPA Checklist required?	🛛 yes 🗌 no		
				26. Application fee for a new reclama	tion permit is herewith attached?		

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### **October 3, 2022** Washington Geological Survey

22. SEGMENTAL RECLAMATION		
Permit area has been divided into segments for mining and a mining schedule has been developed?	🛛 yes	🗌 no
If no, explain:		
Permit area has been divided into segments for reclamation and a reclamation schedule has been developed?	🛛 yes	no no
If no, explain:	-	
23. SITE PREPARATION		
23A. Saving Topsoil, Subsoil, and Overburden for Reclamation		
Thickness of topsoil is 2.5 feetThickness of subsoil is 1.5 feetDepth to bedrock is U	i <b>nknown</b> fe	eet
Total volume of topsoil is <u>80,787</u> cubic yards Total volume of subsoil is <u>48,472</u> cubic yards	ls	
Volume of stored topsoil/subsoil is <u>65,000</u> cubic yards and will require <u>1.5</u> acres for storage. An estimated 34,0	)00 yds is <i>e</i>	lready
being stored in the berm on the south property line. An additional 31,000 yds will be stored in the topsoil shown on the man. Soil from future mining areas will be used to reclaim previously mined areas.	storage ar	ea
Storage areas are shown on maps and will be marked on the ground with permanent boundary markers?	🛛 yes	🗌 no
Topsoil will be salvaged?	V ves	🗌 no
If no, explain:	<u> </u>	
Topsoil and overburden will be moved to reclaim an adjacent depleted segment?	🛛 ves	$\Box$ no
If no, explain:		
Before materials are moved vegetation will be cleared and drainage planned for soil storage areas?	🛛 ves	$\Box$ no
If no, explain:		
Soil storage areas will be stabilized with vegetation to prevent erosion if materials will be stored for more than		
one season?	🛛 yes	🗌 no
If no, explain:		
23B. Permit and Disturbed Area Boundaries		
Boundary of the permit area will be marked on the ground with permanent boundary markers?	🛛 yes	🗌 no
Explain boundary markers: Staked Mining Limits Signs will be used as boundary markers.		
23C. Setbacks Screens and Buffers		
Are Screens required and are shown on maps?	🛛 yes	no
The reclamation setback for this site will be 50' on the South property line and 30' on the North, East and V	<u>Vest prope</u>	<mark>rty lines</mark> .
Is a permanent, undisturbed buffer planned for this site?	🛛 yes	no
If no, explain:		
Setbacks and buffers are shown on maps and have been marked on the ground with permanent boundary	🛛 yes	no
markers?		
If no, explain:		
23D. Buffers to Protect Streams and Flood Plains		
Will the site include a stream or flood plain?	🗌 yes	🖂 no
If yes, see "Additional Requirements for Mines in Flood Plains" in "Instructions for SM-8A".		
If no, skip to 23E.		
A stream buffer of at least 200 feet has been marked on the ground with permanent boundary markers?	🗌 yes	🛛 no
A buffer of at least 200 feet from the 100-year flood plain has been marked on the ground with permanent		
boundary markers?	∐ yes	🖂 no
		<u> </u>
Copy of Shoreline Permit from local government or the Department of Ecology is attached?		⊠ no
Hydraulic Project Approval from the Department of Fish and Wildlife is attached?	🗌 yes	🛛 no

23E. Conservation Buffers		
Are there any conservation buffers?	🗌 yes	🛛 no
If no, skip to 23F		
Conservation buffers will be established for the following purpose(s): (Check all that apply)		
unstable slopes 🔲 wildlife habitat 🗌 water quality 🗌 other		
Describe the nature and configuration of the conservation buffer(s):		
Conservation buffers are shown on maps and have been marked on the ground with permanent boundary markers?	🗌 yes	no no
23F. Ground Water		
High water table depth is feet [] relative to mean sea level, [] below original surface, or [] unknown. Low water table depth is feet [] relative to mean sea level, [] below original surface, or [] unknown. Annual fluctuation of water table is from feet on to feet on Unknow	vn see Rev	ised
Geotechnical Report for further information.		
Are well logs attached? See Aquifer Recharge Report	🛛 yes	no
The shallowest aquifer is Confined K unconfined		
The site will be mined: wet dry both Describe mining method: Dozer will push material down to the processing area. If needed excavator will b dozer to extract the sand and gravel. Loader will pick up material and place it in plant for processing or i off site.	e used in <sub>I</sub> n truck to	blace of be taken
The site is in a:		
☐ critical aquifer recharge area ☐ sole source aquifer ☐ public water supply waters	hed	
wellhead protection area special protection area designated aquifer protecti	on area	
If checked above, see "Additional Requirements for Mines in Hydrologically Sensitive Areas" in "Instruction	is for SM-a	8A".
Ground water study attached? See Aquifer Recharge Report	🛛 yes	no no
If no, explain:		
23G. Archeology		
Are archeological/cultural resource sites present?	🗌 yes	🛛 no
If yes, describe how you will protect these resources:		
24. MINING PRACTICES TO FACILITATE RECLAMATION		
24A. Soil Replacement		
Topsoil and (or) subsoil will be restored? If "no", explain:	🛛 yes	l no
Subsoil will be replaced to an approximate depth of $\underline{1.5}$ feet on the pit floor and a depth of $\underline{1.5}$ feet on slopes. Topsoil will be replaced to an approximate depth of $\underline{1.5}$ feet on the pit floor and a depth of $\underline{1.5}$ feet on slopes.		
If topsoil is in short supply, it will be strategically placed in depressions and low areas in adequate thickness to conserve moisture and promote revegetation?	🛛 yes	no no
If no, explain:		
Topsoil will be moved when conditions are not overly wet or dry?	🛛 yes	🗌 no
If no, explain:		
To position it is in a second day and the effective and the state it is a state it is a second as in a floor of		
If "no", explain:	🛛 yes	no no

Topsoil will be immediately stabilized with grasses and legumes to prevent loss by erosion, slumping, or crusting?	🛛 yes	🗌 no
It no, explain:		
Segmental topsoil removal and replacement is shown on maps? If no, explain:	🛛 yes	no no
Topsoil will be imported?	🛛 ves	$\Box$ no
If yes, describe source. Backfill material will be imported and could include topsoil.		
Estimated volume is <u>184,000</u> cubic yards.		
Synthetic topsoil made from compost biosolids or other amendments will be used and (or) made on site to		
supplement existing topsoil?	🗌 yes	🖂 no
Materials such as till, loess, and (or) silt are available on site that could be used to supplement topsoil for reclamation.	🛛 yes	🗌 no
If yes, explain: There is glacial till on site that could be used to supplement topsoil if needed.		
Silt from settling ponds or a filter press will be used for reclamation? If fines are produced in a settling pond, these fines could be used in reclamation.	🛛 yes	🗌 no
Settling pond clay slurries will be pumped or hauled to other segments for reclamation?	🛛 yes	no no
If yes, explain: Same as settling pond fines.		
24B. Removal of Vegetation		
Vegetation will be removed sequentially from areas to be mined to prevent unnecessary erosion?	🛛 yes	no no
If no, explain:		
Small trees and other transplantable vegetation will be salvaged for use in revegetating other segments?	🗌 yes	🛛 no
If yes, give details. If no, explain: Native vegetation that is in the reclamation plan will be imported once needed for reclamation.		
Wood and other organic debris will be: recycled removed from site chipped burned buried used to synthem mulch	size topsoi	l or
other ( <i>explain</i> ) Will log marketable timber. Then clear and grub remaining vegetation. Chip removed chippings on site for synthesizing topsoil or sell/ use on job sites for erosion control/ synthesis with topsoil.	vegetation	. Use
Solid waste disposal, burning, and land use permits are attached?	🗌 yes	🛛 no
Some coarse wood (logs, stumps) and other large debris will be salvaged for fish and wildlife habitats?	ves	🖂 no
If yes, give details. If no, explain: Native vegetation will be brought in once needed for reclamation.	_ ;	_
24C. Stormwater and Erosion control for Reclamation		
Pit floor will slope at gentle angles toward highwall, sediment retention pond, or proper drainage?	🛛 yes	no
If yes, give details. If no, explain: Pit floors will slope towards infiltration pond in South East corner of mine.		
Revegetation, sheeting, and (or) matting will be used to protect areas susceptible to erosion?	🛛 yes	🗌 no
If yes, give details. If no, explain: Soil placement then seeding will commence as soon as material has	-	
been extracted from each phase.		
Water control systems used during segmental reclamation will:		
Divert clean water around pit?	🛛 yes	🗌 no
Trap sediment-laden runoff before it enters a stream?	🛛 ves	no no
Be established to prevent erosion of setbacks and neighboring properties?		
Be established to prevent erosion of setulates and neighboring properties.	$\boxtimes$ yes	no no
Be removed or reclaimed?	⊠ yes ⊠ yes ⊠ yes	no no

Stormwater system design will be capable of carrying the peak flow of the 25-year, 24-hour precipitation event?	🛛 yes	no no		
(Data are available at the National Oceanic And Atmospheric Administration (NOAA))	🛛 yes	🗌 no		
If yes, are calculations attached?				
If yes, give details. If no, explain: Stormwater calculations were completed. The pond sizing will match recommendations based on those calculations.				
Natural and other drainage channels will be kept free of equipment, wastes, stockpiles, and overburden?	🛛 yes	no no		
If no, explain:				
25. RECLAMATION TOPOGRAPHY				
25A. Final Slopes				
Final slopes will be created using the cut-and-fill method?	🛛 yes	🗌 no		
Explain procedure to be used: Each phase will be mined out to mined out grade and then subsequently backfilled to final grade.				
Slopes will be created by mining to the final slope using the cut method?	🗌 yes	🖂 no		
Explain procedure to be used:				
Slopes will vary in steepness?	🛛 yes	no no		
If no, explain:	;			
Slopes will have a sinuous appearance in both profile and plan view?	🛛 ves	$\Box$ no		
If no, explain:				
Large rectilinear (that is, right angle, or straight, planar) areas will be eliminated?	🛛 yes	🗌 no		
If no, explain:				
Where reasonable, tracks of the final equipment pass will be preserved and oriented to trap				
moisture, soil, and seeds, and to inhibit erosion?	🛛 yes	no		
If no, explain:				
25B. Slope Requirements for Pits and Overburden/Waste Rock Dumps (non-saleable products)				
If the mine is a quarry or in hard rock, skip to Quarry section (25C).				
Slopes will vary between 2 and 3 feet horizontal to 1 foot vertical or flatter, except in limited areas where	_	_		
steeper slopes are necessary to create sinuous topography and control drainage?	🖂 yes	🗌 no		
If no, explain: The slopes will be a maximum of 2:1.				
For pits, slopes will not exceed 2 feet horizontal to 1 foot vertical except as necessary to blend with adjacent	5-7	_		
natural slopes?	🖂 yes	∐ no		
Give details: Slopes will be based on the Revised Geotech Report.				
Review "Additional Requirements for Mines with Steep or Potentially Unstable Slopes" in "Instructions for	SM-8A".			
Slope stability analysis required?	🛛 yes	🗌 no		
If yes, attach analysis.				
25C. Slope Requirements for Quarries and Hardrock Metal Mines				
If mine is a pit in unconsolidated materials covered by Section 25B, go to Section 25D				
Check the appropriate box(es)				
Slopes will not exceed 2 feet horizontal to 1 foot vertical.				
Slopes steeper than 1 foot horizontal to 1 foot vertical are an acceptable subsequent land use as confirmed of	on Form SM	[-6.		
Hazardous slopes or cliffs are indigenous to the immediate area and already present a potential threat to human life. Photo and maps attached to document presence of cliffs.				
Geologic or topographic characteristics of the site preclude slopes being reclaimed at a flatter angle and are an acceptable subsequent land use as confirmed on Form SM-6.				
Review "Additional Requirements for Mines with Steep or Potentially Unstable Slopes" in "Instructions for SM-8A".				

Slope stability analysis required?	🗌 yes	🗌 no
If yes, attach analysis.		
Measures will be taken to limit access to the top and bottom of hazardous slopes?	🗌 yes	🗌 no
Describe measures, or if no, explain:		
Selective blasting will be used to remove benches and walls and to create chutes, buttresses, spurs, scree slopes, and rough cliff faces that appear natural?	🗌 yes	🗌 no
Blasting plan attached?	yes	no no
If no, explain:		
Reclamation blasting will be used to reduce the entire highwall to a scree or rubble slope less than 2 feet horizontal to 1 foot vertical?	🗌 yes	🗌 no
Blasting plan is attached?	🗌 yes	🗌 no
If no, explain:		
Access to benches will be maintained for reclamation blasting?	🗌 yes	🗌 no
If no, explain:		
Small portions of benches will be left to provide habitat for raptors and other cliff-dwelling birds?	🗌 yes	🗌 no
25D. Backfilling		
The site will require backfilling?	🛛 yes	🗌 no
If no, skip to 25E. Maximum depth of backfilling is <u>111</u> feet.		
Backfill will be 🗌 onsite materials 🔲 imported materials 🔀 both	🛛 yes	no no
Provide a written screening method that ensures importation of acceptable soil for reclamation. See Clean Soil Policy attached.		
Backfilling plan is attached?	🛛 yes	🗌 no
If no, explain:		
Backfill stockpiles are shown on maps and will be marked on the ground with markers?	🛛 yes	🗌 no
All grading/backfilling will be done with non-noxious, non-combustible, and relatively incompactible solids? If no, explain:	🛛 yes	🗌 no
Backfill will require compaction?	🖂 yes	no no
If no, explain:	_ ;	_
Will you be backfilling to create slopes?	🛛 yes	no no
Is slope stability analysis attached?	yes	no no
If no, explain.		
25E. Mine Floors		
Flat areas will be formed into gently rolling mounds?	🗌 yes	🛛 no
If yes, give details. If no, explain: There will be two flat pads that will be used for future development.		
Mine floor will be gently graded into sinuous drainage channels to preclude sheetwash erosion during intense precipitation?	🛛 yes	🗌 no
If yes, give details. If no, explain: Mine floor will be gently graded with heavy equipment into drainage channels that will be managed with BMP's to direct water to the onsite pond and keep the site from eroding.		
Mine floor and other compacted areas will be bulldozed, plowed, ripped, or blasted to foster revegetation?	🛛 yes	no
If yes, give details. If no, explain: Mine floor will be properly prepared according to the Reclamation Plan to facilitate revegetation.		
25F. Lakes, Ponds, and Wetlands		
Is water currently present in the area or will the mining penetrate the water table?	yes	🖾 no
If no, go to Section 25G.		

Reclaimed areas below the permanent low water table in soil, sand, gravel, and other unconsolidated material will have a slope no steeper than 1.5 feet horizontal to 1 foot vertical?	yes	no no
If yes, give details. If no, explain:		
If not already present, soils, silts, and clay-bearing material will be placed below water level to enhance revegetation? If yes, give details. If no, explain:	🗌 yes	🗌 no
Some parts of pond and lake banks will be shaped so that a person can escape from the water?	🗌 yes	🗌 no
Armored spillways or other measures to prevent undesirable overflow or seepage will be provided to stabilize bodies of water and adjacent slopes?	🗌 yes	🗌 no
Wildlife habitat will be developed, incorporating such measures as:		
Varied water depths?		
Shallow areas less than 18 inches deen?		$\square$ no
Islands and peninsulas?	$\Box$ yes	$\square$ no
Give details:		
Ponds or basins will:	□	
Be located in stable areas?		
Have an amorganey overflow spillway?		
Spillways and outfalls will be protected (for example, rock armor) to prevent failure and erosion?		$\square$ no
If any answers are no explain:		
the permitted area or adversely affect the stability of impoundment dams or adjacent slopes?	🗌 yes	🗌 no
If yes, give details. If no, explain:		
Written approval from other agencies with jurisdiction to regulate impoundment of water is attached? If no, explain:	🗌 yes	no no
25G. Final Drainage Configuration		
Drainages will be constructed on each reclaimed segment to control surface water, erosion, and siltation?	🛛 yes	🗌 no
Result in essentially natural conditions of volume, velocity, and turbidity?	🛛 yes	🗌 no
Clean runoff is directed to a safe outlet?	🗌 yes	🖂 no
If yes, give details. If no, explain: <b>Runoff will be directed to the siltation and infiltration pond. No runoff off the property is planned.</b>		
Are these shown on maps?	🛛 yes	🗌 no
26. SITE CLEANUP AND PREPARATION FOR REVEGETATION		
26A. Dealing with Hazardous Materials		
Hazardous materials are present at the mine site? If no, go to Section 26B	🗌 yes	🛛 no
The final ground surface drains away from any hazardous natural materials?	🗌 yes	🗌 no
If yes, give details. If no, explain:	•	
Plan for handling hazardous mineral wastes indigenous to the site is attached?	🗌 ves	no no
If no, written approval from all appropriate solid waste regulatory agencies attached?	yes	no

26B. Removal of Debris				
All debris (garbage, 'bone piles', treated wood, old mining equipment, etc.) will be removed from the mine site?				
All sheds, scale houses, an	nd other structures will be	removed from the site?		
If either answer is yes, give	ve details. Plant equipme	nt, yellow iron, job trailer	s or other structures will be	
removed. Garbage won' use will be removed from	t be permitted to accumu n the site.	llate on site. Anything not	necessary to a post mining	
27. REVEGETATI	ON			
The mine site is	in: 🗌 eastern Was 🛛 western Wa	hington shington	Revegetation area is: 🗌 wet 🖾 dry 🗌	both
The average prec	cipitation is <u>20-55 inches</u> p	er year.		
Revegetation will start du for trees and shrubs) follo	ring the first proper growin wing restoration of mine s	ng season (fall for grasses a egments?	nd legumes, fall or late winter 🛛 yes	🗌 no
If yes, give details. Reve	getation will begin with g	rasses/ clover followed by	red alder and douglas fir.	
The site will not be reveg	etated because:			
It is a rural area with	a rainfall exceeding 30 inc	hes annually and erosion w	ill not be a problem (requires approval of D	NR).
Revegetation is inapp	ropriate for the approved s	ubsequent use of this surface	ce mine.	
Explain:				
27A. Recommended Pio	oneer Species			
In the Sections below, che	eck the species that will be	planted at your mine site:		
* indicates nitro	gen-fixing species			
Western Washington Dr	ry Areas			
alfalfa*	lupine*	$\boxtimes$ clover*	orchard grass	
cereal rye	perennial rye	colonial bent grass	Diponderosa pine	
creeping red fescue	⊠ red alder*	$\boxtimes$ Douglas fir	shore pine	
ground cover	shrubs	other		
Western Washington W	et Areas			
birdsfoot trefoil	sedges			
cottonwood	wetland grasses	creeping red fescue	willow	
☐ red alder*	other			
Eastern Washington Dr	y Areas			
alder*	grasses	alfalfa*	juniper	
black locust	lodgepole pine		lupine*	
deciduous trees	ponderosa pine	shrubs	deep-rooted ground cover	
diverse evergreens	other			
Eastern Washington We	et Areas			
alder*	cottonwood	poplar	sedges	
serviceberry	L tubers	∐ willow		
└ other				
Give planting details (ster	ns/acres of trees and shrub	s, see Forest Practices man	ual; lbs/acre of grass, legume, or forb mixtu	re):
190 well-distributed seedlings per acre will be planted. 100 well distributed merchantable trees, saplings or advanced				
reproductions per acre will be planted. 2 to 4 lbs/acre of grass, legume, or forb mixtures will be used. Amounts used will be based on type of mixture.				
Describe weed control plan:				
Weads will be monitored during the reglamation process and will be sprayed or mechanically removed to control				
weeus win de monitored	i uuring the reclamation	process and will be spraye	eu or meenameany removeu to control.	

27B. Planting Techniques		
Revegetation at this site will require:		
Ripping and tilling?	🛛 yes	🗌 no
Blasting to create permeability?	🗌 yes	🖂 no
Mulching?	🛛 yes	🗌 no
Irrigation?	🗌 yes	🖂 no
Fertilization?	🗌 yes	🖂 no
Importation of clay- or humus-bearing soils?	🗌 yes	🖂 no
Other soil conditioners or amendments?	🗌 yes	🖂 no
Give details: Soil will be placed on finish grade. Tilling or roughening of the finish grade prior to soil placement will be done to discourage erosion and improve revegetation. Where left over chipped organics are available, they will be blended into the topsoil.		
Trees and shrubs will be planted in topsoil or in subsoil amended with generous amounts of organic matter?	🛛 yes	🗌 no
If yes, give details. If no, explain: Mulch will be used to help retain moisture, prevent erosion, and moderate soil temperature fluctuations.		
Mulch will be piled around the base of trees and shrubs?	🛛 yes	🗌 no
High quality stock will be used?	🛛 yes	🗌 no
Trees and shrubs will be planted while they are dormant?	🛛 yes	🗌 no
Stock will be properly handled, kept cool and moist, and planted as soon as possible?	🛛 yes	🗌 no
Seeds will be covered with topsoil or mulch no deeper than one-half inch?	🛛 yes	🗌 no
If any answers are no, explain:		
28. FINAL CHECKLIST		
All required maps are attached? (See "Instructions for SM-8A" for detailed requirements.)	🛛 yes	🗌 no
All required cross sections are attached? (See "Instructions for SM-8A" for detailed requirements.)	🛛 yes	🗌 no
Geologic map attached (if required)? (See "Instructions for SM-8A" for detailed requirements.)	🛛 yes	🗌 no
All documents submitted have the date, the name and address of the permit holder, and the application number?	🗌 yes	🛛 no
Have you completed the SM-6 and has it been signed by the local jurisdiction?	🛛 yes	🗌 no
Have you provided the SEPA checklist?	🛛 yes	🗌 no
Have you provided a copy of the SEPA determination (DNS, MDNS, or DS)?	🛛 yes	🗌 no
Have you attached photographs (as needed)?	🗌 yes	🖾 no
Are additional supplemental studies included?	🛛 yes	🗌 no
If yes, check the appropriate box(es) below:		
$\square Archeological \square Geohydrologic \square Backfill \square Slope stability$		
Topsoil   Flood plain   Conservational   Vegetation		
Other		
Other permits required? X yes no		
If yes, check the appropriate box(es) below:		
Shoreline Permit   Water Discharge Permit   Solid Waste Permit		
Air Quality Permit NPDS or General Discharge Permit Hydraulic Project Approva	1	
Special or Conditional Use Permit 🗌 Other		

### **IDENTIFICATION OF LANDOWNER(S)**

Identify names and addresses of all landowners. Provide written evidence of landowner approval of the extraction of minerals by surface mining methods and of the reclamation plan and/or provide the signature of all landowners below. If landownership has been severed between surface and mineral rights ownership, identify all affected mineral rights owner(s) and provide their approval. (Attach signed copies of this page if more than one.)

Print Name(s): Discovery Materials LLC

Address(es): P.O. Box 68697 Seattle, WA 98168-0697

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### APPLICANT ACKNOWLEDGMENT

By signing this application, the applicant acknowledges the following:

- Application's Information True. The applicant verifies that all information on this application and reclamation plan is true.
- **Reclamation Plan Contents.** The applicant's reclamation plan consists of this document (SM-8A), SM-6, associated maps, cross sections, reclamation narrative, and other attachments. The department's approval of this application would reflect approval of the applicant's reclamation plan.
- Applicant/Permit Holder Must Comply. If the department approves this application, the applicant shall be the permit holder and shall be responsible for compliance with Chapter 78.44 RCW, Chapter 332-18 WAC, the terms and conditions of the permit, and the approved reclamation plan and attachments. *The permit holder shall comply with the permit and may not significantly deviate from the reclamation plan without prior written approval by the department for the proposed change.* Revised permits or modified plans might be necessary following significant deviations.
- Applicant/Permit Holder Consents to Inspection. All permitted surface mines are subject to regular inspection. See RCW 78.44.161 and WAC 332-18-050. The applicant verifies that it has authority to consent to department inspections on behalf of itself and the landowner(s). Applicant authorizes the department to enter and inspect any property covered by this application during any day or time determined necessary by the department to ensure compliance with the Surface Mining Act, Surface Mining Rules, the Reclamation Permit, and the Reclamation Plan.

APPLICANT Signature of surface company representat	mine permit applicant or applicant's ive	Name and Title of Company Representa (Please print) Logan Davidson	tive Date signed	
Logi Du	h	Materials Division Mana	ger	
LANDOWNER(S)	n _			
As landowner, I <u>forecur</u> (name) authorize the applicant to extract minerals from my land using surface mining methods and approve this reclamation plan. Signature: Date signed: <u>Jueg</u> . 17, 2027				
FOR DEPARTMENTAL USE ONLY				
Date accepted	Accepted by:	Title:	Reclamation Permit No.	

# **Reclamation Plan Narrative**

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Mine Name: Discovery Bay

**Owner: Discovery Materials LLC** 

Operator: Scarsella Bros., Inc.

Simple Legal Description: The SW ¼ of Section 13, Township 29 North, Range 2 West, Willamette Meridian, Jefferson County, Washington

7/2022

The property is currently zoned Rural Residential 1 Unit/20 Acres. Allowed land uses are few and light in intensity. One home may be built on the property in the future. Additionally, forestry activities may occur on the property.

The property will be mined to a maximum depth of 165 feet below pre-mining topographic grade. The material being mined is sand and gravel. Excavators, dozers or loaders will be used to extract the material from the ground. The material will then be conveyed via truck, conveyor or loader to the processing area for processing or loading onto trucks.

After mining, the property will be backfilled. Please see the backfill plan for details on how the mine will be backfilled. This document includes a description (or references the Revised Geotechnical Report by Georesources) of the clean soil policy and compaction and slope recommendations.

The property has mining setbacks of 50' on the southern property line and 30' on the north, east and west. An existing 15-20' tall, vegetated berm lies within the 50' setback. It will be maintained to decrease visibility and noise impacts to others.

A stormwater pond has been sized by an engineer and will be built to ensure stormwater infiltrates into the ground and no stormwater runs off site. Slopes and ditches will be graded to direct stormwater to the pond. A site management plan has been prepared to meet the Department of Ecology requirements for stormwater management.

Mining will occur sequentially with no more than 10 acres disturbed at a time. The southernmost 10 acres will be mined first. Topsoil will be stockpiled along the inside edge of the mining setback and in previously mined areas. Vegetation will be stripped and grinded up for use in the topsoil. Once this first area is mined out it will be backfilled up to between 100'-135' msl. Besides, the stormwater pond, roads and temporary processing areas, the area will be hydroseeded to meet the County's requirement of having no more than 10 acres disturbed at a time. The northern half of the property will be mined next following a similar pattern. First, vegetation will be cleared. Second, topsoil stripped. Third, sand and gravel will be mined. Fourth, backfilled. Fifth, topsoil will be placed over the whole mine. Last the whole mine will be revegetated.

The southern portion of the mine is within a critical aquifer recharge area. A report has been prepared to prescribe best management practices to avoid impacting the aquifer. See the report for a detailed

description of the geology, hydrogeology, and prescription of best management practices. No significant groundwater is expected to be within the excavation area. Best management practices will be implemented to ensure no impact to groundwater.

# **Backfilling Plan**

Mine Name: Discovery Bay Owner: Discovery Materials LLC Operator: Scarsella Bros., Inc. 7/2022

The Discovery Bay Mine will be backfilled with about 1.9 million cubic yards of soil. Backfilling will follow a clean soil policy, and compaction and slope recommendations from the Geotech (See the Revised Geotechnical Report by Georesources).

#### **Clean Soil Policy**

The mine will be backfilled with clean soil as defined in Scarsella Bros., clean soil policy. The clean soil policy is attached. Soil will be screened prior to it being brought to the pit. See the clean soil policy for the questionnaire that will help customers (or Scarsella Bros., Inc.) determine if they can bring their material into the pit. This questionnaire will also determine if Scarsella Bros., Inc. needs to require testing of the material the customer has. Material coming from a site where there may have been a release (release of contaminants on said property of more than a de minimis amount) will require testing. Any material that is known to not meet the clean soil definition in the clean soil policy will be turned away.

In addition to using soils from off site, reject materials from processing and excess topsoil or subsoil may be used in reclamation.

#### Compaction

The zoning on the property currently is Rural Residential 1 Unit/20 Acres. One house may be built on the property at some point in the future. Future permittable land uses in this location are expected to be limited and of a low intensity.

See the Revised Geotechnical Report by Georesources for compaction recommendations and monitoring.

#### **Backfilled Slopes**

All temporary and permanent slopes will meet the criteria as outlined in the revised Geotechnical Report. Backfilling will restore the site to a similar state before mining occurred and build a couple of flat areas for future development.

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