WASHINGTON STATE DEPT OF
NATURAL RESOURCES

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

NAME OF COMPANY OR INDIVIDUAL APPLICANT(S)
Same as name of the exploration permit holder

Mutual Materials Company

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 63 acres

Maximum vertical depth below pre-mining topographic grade is

7 feet

Maximum depth of excavated mine floor is 1898 feet relative to mean sea level

COUNTY Pend Oreille

That portion of the E ½ of NW ¼ Section 7 Lying East of County Road. T32N R44E in Pend Oreille County

3-59 F4 E1\2NW1\4 E OF RD 07-32-44

MAILING ADDRESS PO Box 2009, Bellevue, WA 98009

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Washington Geological Survey

Telephone 509-924-2120

1/2	1/4	Section	Township	Range
E	NW	7	T32N	R44E

Proposed subsequent use of site upon completion of reclamation
Agriculture / Grazing

Signature of company representative or individual applicant(s)	Name and title of company representative	Date signed
	Mason McCuddin Mine Supervisor	6-11-18

TO BE COMPLETED BY THE APPROPRIATE COUNTY OR MUNICIPALITY:

Please answer the following questions 'yes' or 'no'

	Yes	No
1. Has the proposed surface mine been approved under local zoning and land-use regulations? *		X
2. Is the proposed subsequent use of the land after reclamation consistent with the local land-use plan/designation?	X	

When complete, return this form to the Department of Natural Resources

* THIS IS A LEGAL, NON-CONFORMING USE (GRANDFATHERED).

Name of planning director or administrative official *(please print)*
GREG SHOW

Signature

Title *(please print)*
COMMUNITY DEVELOPMENT DIRECTOR

Address
P.O. BOX 5066
NEWPORT, WA 99156

Telephone 509 447 4821

Date 06/18/18

FOR DEPARTMENT USE ONLY:

DNR Reclamation Permit No

WASHINGTON STATE DEPT OF
NATURAL RESOURCES

APPLICATION FOR RECLAMATION PERMIT (Form SM-8A)

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

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)
Mutual Materials Company

2. MAILING ADDRESS
P.O. Box 2009, Bellevue, WA 98009

3. Telephone **425-452-2300** Email

4. NAME OF MINE
Usk Mine

5. Street address and milepost of surface mine
Bennett Road

6. Distance (miles)	**7.** Direction from	**8.** Nearest community
1.6	**SSE**	**Usk**

9. COUNTY **Pend Oreille**
No attachments will be accepted. Legal Description of permit area:

1/4	1/4	Section	Township	Range
E	**NW**	**7**	**T32N**	**R44E**

10. TOTAL ACREAGE OF PERMIT AREA APPLIED FOR:
(Include all acreage to be permitted. See Form SM-6.) **63** acres

11. Do you or any person, partnership, or corporation associated with you now hold, or have you held, a surface mining operating or reclamation permit? X yes ☐ no
If you answered yes to the above, please list:

Permit Number	Active Operation?		Reclamation current/complete?	
	Yes	No	Yes	No
70-010455	**X**	☐	**X**	☐
70-010446	**X**	☐	**X**	☐
	☐	☐	☐	☐
	☐	☐	☐	☐

12. Are all of these mines now in compliance with RCW 78.44, WAC 332-18, and conditions of the permits? X yes ☐ no

13. Have you ever had a surface mine operating or reclamation permit revoked? ☐ yes X no
Have you ever had a reclamation security forfeited? ☐ yes X no
If you answered yes to either of the above, give permit number(s):

14. Type of proposed or existing mine: X pit ☐ quarry
Material(s) to be mined: ☐ sand and gravel ☐ rock or stone X clay ☐ metal ☐ limestone ☐ silica ☐ other
Deposit type: ☐ glacial ☐ river floodplain (alluvial) ☐ river channel deposits ☐ talus ☐ bedrock ☐ lode X unknown ☐ other

15. Total disturbed acreage and maximum depth of permit area:
(Include all acreage to be disturbed by mining and reclamation during the life of the mine.)
Total area to be disturbed: **60** acres.
Area to be disturbed in next 36 months: **2** acres.
Maximum vertical depth (thickness) mined below pre-mining topographic grade will be **7** feet.
Lowest elevation of excavated mine will be **1898** feet relative to mean sea level.
Highest elevation of excavated mine will be **1910** feet relative to mean sea level.

16. Expected start date of mining: **6/2020**

17. Estimated number of years: **50**

18. Total quantity to be mined over life of mine (estimated): **50000** ☐ tons or ☐ cu yds

19. Estimated annual production: **1000** ☐ tons or X cu yds

20. Subsequent land use: ☐ industrial ☐ commercial ☐ residential X agricultural ☐ forestry ☐ wetlands and lakes ☐ other
Reclaimed elevation of floor of mine: **1898** feet relative to mean sea level
Reclaimed elevation is shown on cross sections? ☐ yes X no
Subsequent land use is compatible with County or Municipal comprehensive plan? X yes ☐ no
County or Municipality Approval for Surface Mining (Form SM-6) attached? X☐ yes ☐ no
SEPA Checklist required? X☐ yes ☐ no
If any answers are no, explain:

21. Application fee for a new reclamation permit is herewith attached? ☐ yes ☐ no

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APPLICATION FOR RECLAMATION PERMIT

22. SEGMENTAL RECLAMATION

Permit area has been divided into segments for mining and a mining schedule has been developed? **X** yes ☐ no
If no, explain:

Permit area has been divided into segments for reclamation and a reclamation schedule has been developed? **X** yes ☐ no
If no, explain:

23. SITE PREPARATION

23A. Permit and Disturbed Area Boundaries

Boundary of the permit area has been marked on the ground with permanent boundary markers? **X** yes ☐ no
Explain boundary markers: **Metal posts with 4 x 4 marking signs permanently attached.**

23B. Saving Topsoil, Subsoil, and Overburden for Reclamation

Thickness of topsoil is **0-.1** feet Thickness of subsoil is **0** feet Depth to bedrock is **Unknown** feet
Total volume of topsoil is **1000** cubic yards Total volume of subsoil is **0** cubic yards
Volume of stored topsoil/subsoil is cubic yards and will require **.5** acres for storage.

Storage areas are shown on maps and have been marked on the ground with permanent boundary markers? **X** yes ☐ no

Topsoil will be salvaged? **X** yes ☐ no
If no, explain:

Topsoil and overburden will be moved to reclaim an adjacent depleted segment? **X** yes ☐ no
If no, explain:

Before materials are moved, vegetation will be cleared and drainage planned for soil storage areas? **X** yes ☐ 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? **X** yes ☐ no
If no, explain:

23C. Setbacks and Screens

The setback for this site will be **50** feet wide.

Is a permanent, undisturbed buffer planned for this site? **X** yes ☐ no
If no, explain:

Setbacks are shown on maps and have been marked on the ground with permanent boundary markers? yes X no
If no, explain: **Setbacks shown on map but not permanently marked.**

Does this site have a backfilling plan that addresses the protection of adjacent property and how the final, stable slopes are to be achieved? ☐ yes X no
If no, explain: **Total depth is +-4', slope stability should not be a problem**

23D. Buffers to Protect Streams and Flood Plains

A stream buffer of at least 200 feet has been marked on the ground with permanent boundary markers? ☐ yes **X** no
If yes, see "Additional Requirements for Mines in Flood Plains" in "Instructions for SM-8A".

A buffer of at least 200 feet from the 100-year flood plain has been marked on the ground with permanent boundary markers? ☐ yes **X** no
If no, explain: **100 year flood plain not known**

Copy of Shoreline Permit from local government or the Department of Ecology is attached? ☐ yes **X** no

Hydraulic Project Approval from the Department of Fish and Wildlife is attached? ☐ yes **X** no

23E. Conservation Buffers

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):

APPLICATION FOR RECLAMATION PERMIT

Conservation setbacks are shown on maps and have been marked on the ground with permanent boundary markers?	☐ yes **X** no
23F. Ground Water	
High water table depth is **12** feet ☐ relative to mean sea level, **X** below original surface, or unknown. Low water table depth is **12** feet ☐ relative to mean sea level, **X** below original surface, or unknown. Annual fluctuation of water table is from _____ feet on _____ to _____ feet on **X**.Unknown Direction of ground water flow: **Unknown**	
Are well logs attached? There are 4 wells nearby that could be used	☐ yes **X** no
Is the aquifer perched?	☐ yes **X** no
The shallowest aquifer is ☐ confined ☐ unconfined?	
The site will be mined: ☐ wet **X** dry ☐ both Describe mining method: **Dozer or Excavator for moving material directly into stockpiles.**	
The site is in a: ☐ critical aquifer recharge area ☐ sole source aquifer ☐ public water supply watershed ☐ wellhead protection area ☐ special protection area ☐ designated aquifer protection area	
Ground water study attached? ***If yes, see "Additional Requirements for Mines in Hydrologically Sensitive Areas" in "Instructions for SM-8A". If no, explain:***	☐ yes **X** no
23G. Archeology	
Are archeological/cultural resource sites present? If yes, describe how you will protect these resources:	☐ yes **X** no
24. MINING PRACTICES TO FACILITATE RECLAMATION	
24A. Soil Replacement	
Topsoil will be saved? If no, explain:	X yes ☐ no
Up to 4 feet of topsoil and (or) subsoil will be restored? If "yes" give details. If "no", explain: **Subsoil is nonexistent, topsoil is minimal and will be placed in depressions and low areas to conserve moisture and promote revegetation**	X yes ☐ no
Topsoil will be restored and seedbeds prepared as necessary to promote effective revegetation and to stabilize slopes and mine floor? If "yes" give details. If "no", explain: **Topsoil will be restored with Scraper and leveled or graded with Dozer. Seed will be broadcast by hand.**	X yes ☐ no
Subsoil will be replaced to an approximate depth of **0** feet on the pit floor and a depth of **0** feet on slopes. Topsoil will be replaced to an approximate depth of **.1** feet on the pit floor and a depth of **.1** feet on slopes.	
Topsoil will be distributed evenly over the site? If no, explain: **Topsoil is in very short supply so will be placed in depressions and low areas to conserve moisture and promote revegetation.**	yes X☐ no
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? If no, explain:	X yes ☐ no
Topsoil will be moved when conditions are not overly wet or dry? If no, explain:	X yes ☐ no
Topsoil will be imported? If yes, describe source. If no, explain:	☐ yes X no

APPLICATION FOR RECLAMATION PERMIT

Synthetic topsoil made from compost, biosolids, or other amendments will be used and (or) made on site to supplement existing topsoil?	☐ yes X no
Materials such as till, loess, and (or) silt are available on site that could be used to supplement topsoil for reclamation. If yes, explain:	☐ yes X no
Silt from settling ponds or a filter press will be used for reclamation?	☐ yes X no
Settling pond clay slurries will be pumped or hauled to other segments for reclamation? If yes, explain:	☐ yes X no
Topsoil will be replaced with equipment that will minimize compaction, or it will be plowed, disked, or ripped following placement? If no, explain:	X yes ☐ no
Topsoil will be immediately stabilized with grasses and legumes to prevent loss by erosion, slumping, or crusting? If no, explain:	X yes ☐ no
Topsoil stockpile areas are shown on maps and will be marked on the ground with permanent boundary markers to protect from loss? If no, explain:	X yes ☐ no
Segmental topsoil removal and replacement is shown on maps? If no, explain:	☐ yes X no
Topsoil salvage and replacement plan included? If no, explain:	☐ yes X no
24B. Removal of Vegetation	
Vegetation will be removed sequentially from areas to be mined to prevent unnecessary erosion? If no, explain:	X yes ☐ no
Small trees and other transplantable vegetation will be salvaged for use in revegetating other segments? If yes, give details. If no, explain: **Most of the site is primarily grass, reseeding grasses with duplicate existing vegetation.**	☐ yes X no
Wood and other organic debris will be: **X** recycled ☐ removed from site ☐ chipped ☐ burned ☐ buried **X** used to synthesize topsoil or mulch ☐ other (*explain*) Solid waste disposal, burning, and land use permits are attached?	☐ yes X no
Some coarse wood (logs, stumps) and other large debris will be salvaged for fish and wildlife habitats? If yes, give details. If no, explain: **There is a very small seasonal stream onsite and a small retention pond is present.**	☐ yes X no
24C. Erosion control for Reclamation	
Pit floor will slope at gentle angles toward highwall, sediment retention pond, or proper drainage? If yes, give details. If no, explain: **Pit floor will slope gently towards the retention pond**	X yes ☐ no
Revegetation, sheeting, and (or) matting will be used to protect areas susceptible to erosion? If yes, give details. If no, explain: **The site is primarily flat but revegetation will occur where sloped.**	X yes ☐ no

APPLICATION FOR RECLAMATION PERMIT

Water control systems used for erosion control during segmental reclamation will:	
Divert clean water around pit?	☐ yes X no
Trap sediment-laden runoff before it enters a stream?	X yes ☐ no
Result in essentially natural conditions of volume, velocity, and turbidity?	X yes ☐ no
Handle a 25-year, 24-hour peak event?	☐ yes X no
(Have you attached calculation?)	☐ yes X no
Be removed or reclaimed?	☐ yes X no
If any answers are no, explain: **Site is essentially flat so runoff velocity will result in minimal erosion. The small seasonal stream feeds into a retention pond to allow settling of sediment before leaving the site.**	
Will any water control systems be removed upon final reclamation? If yes, explain:	☐ yes X no
Water control measure will be established to prevent erosion of setbacks and neighboring properties? If yes, give details. If no, explain: **Site is primarily flat, no erosion should occur**	☐ yes X no
Storm-water conveyance ditches and channels will be lined with vegetation or riprap? If yes, give details. If no, explain: **As mining segments are depleted, vegetation will be planted**	X yes ☐ no
Natural and other drainage channels will be kept free of equipment, wastes, stockpiles, and overburden? If no, explain:	X yes ☐ no

25. RECLAMATION TOPOGRAPHY

25A. Final Slopes	
Final slopes will be created using the cut-and-fill method? Explain procedure to be used: **Slopes will be created with bulldozer cutting to final slope during mining**	X yes no
Slopes will be created by mining to the final slope using the cut method? Explain procedure to be used: **Slopes will be created with bulldozer cutting to final slope during mining**	X yes ☐ no
Slopes will vary in steepness? If no, explain:	X yes ☐ no
Slopes will have a sinuous appearance in both profile and plan view? If no, explain:	X yes ☐ no
Large rectilinear (that is, right angle, or straight, planar) areas will be eliminated? If no, explain:	X yes ☐ no
Where reasonable, tracks of the final equipment pass will be preserved and oriented to trap moisture, soil, and seeds, and to inhibit erosion? If no, explain:	X yes ☐ no
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? If no, explain:	X yes ☐ no
For pits, slopes will not exceed 2 feet horizontal to 1 foot vertical except as necessary to blend with adjacent natural slopes? Give details: **Slopes will not exceed 2 feet horizontal to 1 foot vertical.**	X yes ☐ no
Slope stability analysis required? ***If yes, see "Additional Requirements for Mines with Steep or Potentially Unstable Slopes" in "Instructions for SM-8A".*** Slope stability analysis provided by .	☐ yes X no

APPLICATION FOR RECLAMATION PERMIT

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 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.

Slope stability analysis required? ☐ yes ☐ no

If yes, see "Additional Requirements for Mines with Steep or Potentially Unstable Slopes" in "Instructions for SM-8A".

Slope stability analysis provided by

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

Describe procedures, or 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?

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

Slopes will require backfilling? ☐ yes X no

Depth of backfilling is _____ feet.

Slope stability compaction analysis required? ☐ yes X no

Compaction analysis provided by

Backfilling plan and (or) permits are attached? ☐ yes X no

If no, explain: **No backfilling will be needed**

Backfilling will be done with overburden material after topsoil has been separated? ☐ yes X no

If no, describe composition and source of backfill material: **Final slope will be created by mining**

Explain method of placement of fill:

Locations of stockpiles are shown on maps and will be marked on the ground with permanent boundary markers? ☐ yes X no

Will backfill be imported? ☐ yes X no

If yes, give volumes needed to meet reclamation plan:

Areas to be backfilled are shown on maps? ☐ yes X no

If no, explain: **No backfilling needed**

All grading/backfilling will be done with clean, inert, non-organic solids? ☐ yes X no

If yes, give details. If no, explain: **No backfilling needed**

Backfilled slopes will be compacted? ☐ yes X no

If yes, give details. If no, explain: **No backfilling needed**

APPLICATION FOR RECLAMATION PERMIT

Will you be backfilling into water? If yes, is slope stability analysis attached? If yes, describe method:	☐ yes X no ☐ yes X no
25E. Mine Floors	
Flat areas will be formed into gently rolling mounds? If yes, give details. If no, explain: **Existing mine site is flat**	☐ yes X no
Mine floor will be gently graded into sinuous drainage channels to preclude sheetwash erosion during intense precipitation? If yes, give details. If no, explain: **Mine floor has a small seasonal stream and a channel is in place**	X yes ☐ no
Mine floor and other compacted areas will be bulldozed, plowed, ripped, or blasted to foster revegetation? If yes, give details. If no, explain: **Mine floor will be bulldozed to match surrounding area and tracks left in place to foster revegetation**	X yes ☐ no
25F. Lakes, Ponds, and Wetlands	
Is water currently present in the area or will the mining penetrate the water table? ***If no, go to Section 25G.***	☐ yes X no
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? If yes, give details. If no, explain: **Final mine depth will not be below water table**	☐ yes X no
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: **Final mine depth will not be below water table**	☐ yes X no
Some parts of pond and lake banks will be shaped so that a person can escape from the water?	☐ yes X no
Armored spillways or other measures to prevent undesirable overflow or seepage will be provided to stabilize bodies of water and adjacent slopes? If yes, give details. If no, explain: **Mine depth will be <5' so no armored spillways should be needed.**	☐ yes X no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep? Islands and peninsulas? Give details: **Small retention pond on the site is less than 12" deep**	 ☐ yes X no ☐ yes X no X yes ☐ no ☐ yes X no
Ponds or basins will: Be located in stable areas? Have sufficient volume for expected runoff? Have an emergency overflow spillway? Spillways and outfalls will be protected (for example, rock armor) to prevent failure and erosion? If any answers are no, explain: **Site is primarily flat and slopes are not higher than 5'. Small seasonal stream not expected to cause any erosion.**	 X yes ☐ no X yes ☐ no ☐ yes X no ☐ yes X no
Proper measures will be taken to prevent seepage from water impoundments that could cause flooding outside the permitted area or adversely affect the stability of impoundment dams or adjacent slopes? If yes, give details. If no, explain: **Retention pond is small to hold a seasonal stream and not expected to flood.**	☐ yes X no
Written approval from other agencies with jurisdiction to regulate impoundment of water is attached? If no, explain: **Not needed**	☐ yes no no

APPLICATION FOR RECLAMATION PERMIT

25G. FINAL DRAINAGE CONFIGURATION

Drainage will be capable of carrying the peak flow of the 25-year, 24-hour precipitation event? X yes ☐ no
(*Data are available at DNR Region offices*)
If yes, are calculations attached? ☐ yes X no
If yes, give details. If no, explain: **Small seasonal stream not expected to flood**

Drainages will be constructed on each reclaimed segment to control surface water, erosion, and siltation? ☐ yes X no
Clean runoff is directed to a safe outlet? X yes ☐ no
If either yes, give details. If no, explain: **Site is primarily flat but there is a small retention pond to allow settling of silt.**

Are these shown on maps? X yes ☐ no

The grade of ditches and channels will be constructed to limit erosion and siltation? X yes ☐ no
If yes, give details. If no, explain: **Site is primarily flat but there is a small retention pond to allow settling of silt**

Natural-appearing drainage channels will be established upon reclamation? X yes ☐ no
If yes, give details. If no, explain: **Existing small seasonal stream currently has a sinuous path through the site**

26. SITE CLEANUP AND PREPARATION FOR REVEGETATION

26A. Dealing with Hazardous Materials

Hazardous materials are present at the mine site? ☐ yes X no
If no, go to Section 26B
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? ☐ yes ☐ 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? X yes no
All sheds, scale houses, and other structures will be removed from the site? ☐ yes X no
If either answer is yes, give details. If no, explain: **All debris will be removed, no mining equipment will be left of site, no structures on site**

27. REVEGETATION

The mine site is in: **X** eastern Washington ☐ western Washington
The mine site is: ☐ wet **X** dry?
The average precipitation is **14"** per year.

Revegetation will start during the first proper growing season (fall for grasses and legumes, fall or late winter for trees and shrubs) following restoration of slopes? X yes ☐ no
If yes, give details. If no, explain: **Planting of grasses similar to native pasture grasses will occur as soon as topsoil is replaced following each segment of reclamation.**

Test plots will be used to determine optimum vegetation plans? ☐ yes X no

The site will not be revegetated because:
☐ It is a rural area with a rainfall exceeding 30 inches annually and erosion will not be a problem (requires approval of DNR).
☐ 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.
Explain: **Revegetation will occur**
Documentation is attached? ☐ yes X no

APPLICATION FOR RECLAMATION PERMIT

27A. Recommended Pioneer Species

In the Sections below, check the species that will be planted at your mine site:

**** indicates nitrogen-fixing species***

Western Washington Dry Areas

☐ alfalfa*	☐ lupine*	☐ clover*	☐ orchard grass
☐ cereal rye	☐ perennial rye	☐ colonial bent grass	☐ ponderosa pine
☐ creeping red fescue	☐ red alder*	☐ Douglas fir	☐ shore pine
☐ ground cover	☐ shrubs	☐ other	

Western Washington Wet Areas

☐ birdsfoot trefoil	☐ sedges	☐ cedar	☐ tubers
☐ cottonwood	☐ wetland grasses	☐ creeping red fescue	☐ willow
☐ red alder*	☐ other		

Eastern Washington Dry Areas

☐ alder*	X grasses	☐ alfalfa*	☐ juniper
☐ black locust	☐ lodgepole pine	X clover	☐ lupine*
☐ deciduous trees	☐ ponderosa pine	☐ shrubs	☐ deep-rooted ground cover
☐ diverse evergreens	X other **Pasture grass blend matching naturally occurring vegetation**		

Eastern Washington Wet Areas

☐ alder*	☐ cottonwood	☐ poplar	☐ sedges
☐ serviceberry	☐ tubers	☐ willow	
☐ other			

Give planting details (stems/acres of trees and shrubs, see Forest Practices manual; lbs/acre of grass, legume, or forb mixture):
Pasture grass blend at 25 pounds per acre

Describe weed control plan:
None needed presently, no noxious weeds present

27B. Planting Techniques

Revegetation at this site will require:

Ripping and tilling?	☐ yes	X no
Blasting to create permeability?	☐ yes	X no
Mulching?	☐ yes	X no
Irrigation?	☐ yes	X no
Fertilization?	☐ yes	X no
Importation of clay- or humus-bearing soils?	☐ yes	X no
Other soil conditioners or amendments?	☐ yes	X no

Give details:

Trees and shrubs will be planted in topsoil or in subsoil amended with generous amounts of organic matter? ☐ yes X no
If yes, give details. If no, explain:

Mulch will be piled around the base of trees and shrubs?	☐ yes	X no
High quality stock will be used?	☐ yes	X no
Trees and shrubs will be planted while they are dormant?	☐ yes	X no
Stock will be properly handled, kept cool and moist, and planted as soon as possible?	☐ yes	X no
Seeds will be covered with topsoil or mulch no deeper than one-half inch?	X yes	☐ no

If any answers are no, explain: **Subsequent use of site will be grazing, pasture grass blend will be planted in replaced topsoil.**

28. FINAL CHECKLIST

All required maps are attached? (***See "Instructions for SM-8A" for detailed requirements.***) X yes ☐ no

APPLICATION FOR RECLAMATION PERMIT

All required cross sections are attached? (***See "Instructions for SM-8A" for detailed requirements.***)	X yes ☐ no
Geologic map attached (if required)? (***See "Instructions for SM-8A" for detailed requirements.***)	☐ yes X no
All documents submitted have the date, the name and address of the permit holder, and the application number on every page of the material?	☐ yes X no
The plan contains predominantly relevant information?	X yes ☐ no
Have you completed the SM-6 and has it been signed by the local jurisdiction?	X yes ☐ no
Have you provided the SEPA checklist?	X yes ☐ no
Have you provided a copy of the SEPA determination (DNS, MDNS, or DS)?	☐ yes X no
Have you attached photographs?	☐ yes X no
Are additional supplemental studies included? If yes, check the appropriate box(es) below: ☐ Archeological ☐ Geohydrologic ☐ Backfill ☐ Slope stability ☐ Topsoil ☐ Flood plain ☐ Conservational ☐ Vegetation ☐ Other	☐ yes X no
Other permits required? ☐ yes X☐ 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 Approval ☐ Special or Conditional Use Permit ☐ Other	

APPLICATION FOR RECLAMATION PERMIT AND PLAN

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): Mutual Materials Co.

Address(es): 6005 119th Ave NE
Bellevue, WA 98005

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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 mine permit applicant or applicant's company representative	Name and Title of Company Representative (Please print)	Date signed
Mason L McCuddin	MASON MCCUDDIN MINE SUPERVISOR	8-14-19

LANDOWNER(S)

As landowner, I KIMBERLY EIRING / MUTUAL MATERIALS (name) authorize the applicant to extract minerals from my land using surface mining methods and I approve this reclamation plan.

Signature: [signature]

Date signed: 8/14/19

KIM EIRING / CFO (MUTUAL MATERIALS)

FOR DEPARTMENTAL USE ONLY

Date accepted	Accepted by:	Title:	Reclamation Permit No.

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Dec 19, 2019

RE: Washington DNR Reclamation Permit
Unpermitted Surface Mine Site #70-090242 (Usk)
Located at 3-59 F4 E1\2NW1\4 E OF RD 07-32-44 , Lat 48.2929 Long-117.2966
Mutual Materials Company

This narrative accompanies numerous maps and drawings along with a completed and current SM-6, SM-8a, and SEPA checklist for application of DNR Reclamation Permit for the above referenced mine property.

Historically, as near as can be determined, this property was used for cattle grazing and possibly agriculture. In the past, there was a small flower pot manufacturer close by but this operation did not last more than a year or 2.

In 1992 while searching for another clay source, Mutual Materials acquired the Usk property. For the next 20 years, Mutual Materials mined and trucked the clay to the Mica plant. In 2012, a clay from the Mica mine with similar properties began to be utilized in place of the Usk material, and since 2013 the Usk clay has not been used by the Mica plant. Currently, the clay is mined and sold to a Spokane tile manufacturer but could potentially be used again in the future by the Mica plant.

In 2017, a DNR inspection revealed that the disturbed ground at the mine exceeded the 3 acre maximum for an unpermitted site and that a reclamation permit was needed. This application is in response to that inspection.

The usable material at the Usk site lies in a 4' layer just below a very thin (0" to 3") layer of topsoil. Just below the clay layer is a layer of very fine brown sand followed by a layer of green/blue sand then water consistently at 12'.

There is a seasonal stream whose bed runs through the mine site. A shallow channel has been built that follows the original path of the stream to the point where it exits the property. The slope at the point where the stream enters the mine has been armored with broken brick to minimize any erosion. There is native vegetation in the bed to help filter any sediments that might be carried by the stream. The site is predominantly flat, so virtually no runoff occurs, though there is a small reclamation pond to allow settling if runoff did occur.

From 1992 to 2010, mining was accomplished with a scraper, removing topsoil and placing it in a dedicated stockpile and the underlying clay was then hauled by dump trucks to Mica. Currently, the mining is accomplished by either pushing with a bulldozer or digging with an excavator. The mined clay is stockpiled in the pit bottom and hauled on an annual basis. At current usage rates, active mining occurs about one week every 4 years, though this rate could increase in the future.

Since the mine was opened in 1992, segmented reclamation has occurred with depleted sections typically graded, contoured, and topsoil spread, then seeded with a pasture grass blend. In the future, some logging will take place. After the underlying material is removed, these areas will either be planted with pasture grass or saplings to match the surrounding trees.

Planning for mining in the near future (10-15) years, will be relatively easy as no logging will need to take place, and current mining methods can be used with little if any modification. Beyond 15 years, the only difference should be the addition of logging and clearing of land and adding native saplings to the reclamation plan.

The maps and documents included with this application are as accurate as possible. Revisions to the permit will possibly be required in the future to address developments and/or changes that are not evident today.

If you need any additional information or have questions, please contact me.

Respectfully submitted,

Mason McCuddin
Mine Supervisor
Mutual Materials Company
10627 S. Hwy 27,
Mica, WA 99023
509-924-2120
mmccuddin@mutualmaterials.com