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

**Check appropriate box(es):** 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”.

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| 1. NAME OF APPLICANT/PERMIT HOLDER(S) | | | | | | |
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| 2. MAILING ADDRESS | | | | | | |
| 3. Telephone       Email | | | | | | |
| 4. NAME OF MINE | | | | | | |
| 5. Street address and milepost of surface mine | | | | | | |
| 6. Distance (miles) | | 7. Direction from | | | 8. Nearest community | |
| 9. COUNTY  No attachments will be accepted. Legal Description of permit area: | | | | | | |
| 1/4 | Section | | Township | | | Range |
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| 10. Do you or any person, partnership, or corporation  associated with you now hold, or have you held, a  surface mining operating or reclamation permit?  yes  no  If you answered yes to the above, please list: | | | | | | |
| 11. Are all of these mines now in compliance with  RCW 78.44, WAC 332-18, and conditions of the permits?  yes  no  Have you ever had a surface mine operating or reclamation permit revoked?  yes  no  Have you ever had a reclamation security forfeited?  yes  no  If you answered yes to either of the above, give permit number(s): | | | | | | |
| 12. TOTAL ACREAGE OF PERMIT AREA APPLIED FOR:  (Include all acreage to be permitted. See Form SM-6.)       acres | | | | | | |
| 13. Total disturbed acreage (Include all acreage to be disturbed by mining and reclamation during the life of the mine.)  Total area to be disturbed:       acres.  Area to be disturbed in next 36 months:       acres. | | | | | | |
| 14. Maximum vertical depth (thickness) mined below pre-mining topographic grade will be       feet. | | | | | | |
| 15. Lowest elevation of excavated mine will be       feet relative to mean sea level.  Highest elevation of excavated mine will be       feet relative to mean sea level. | | | | | | |
| 16. Type of proposed or existing mine:  pit  quarry | | | | | | |
| 17. Material(s) to be mined:  sand and gravel  rock or stone  clay  metal  limestone  silica  other \_\_\_\_\_\_ | | | | | | |
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| 18. Deposit type:  glacial  river floodplain (alluvial)  river channel deposits  talus  bedrock  lode  other \_\_\_\_\_\_ | | | | | | |
| 19. Expected start date of mining: | | | | 20. Estimated number of years: | | |
| 21. Total quantity to be mined over life of mine (estimated):         tons or  cu yds | | | | 22. Estimated annual production:         tons or  cu yds | | |
| 23. Subsequent land use:  industrial  commercial  residential  agricultural  forestry  wetlands and lakes  other  County or Municipality Approval for  Surface Mining (Form SM-6) attached?  yes  no | | | | | | |
| 24. Reclaimed elevation of floor of mine:       feet relative to mean sea level  Reclaimed elevation is shown on cross sections?  yes  no | | | | | | |
| 25. SEPA Checklist required?  yes  no | | | | | | |
| 26. Application fee for a new reclamation permit is herewith attached?  yes  no | | | | | | |
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| 22. SEGMENTAL RECLAMATION | | | |
| Permit area has been divided into segments for mining and a mining schedule has been developed? If no, explain: | yes  no | | |
| Permit area has been divided into segments for reclamation and a reclamation schedule has been developed? If no, explain: | yes  no | | |
| **23. SITE PREPARATION** | | | |
| 23A. Saving Topsoil, Subsoil, and Overburden for Reclamation | | | |
| Thickness of topsoil is  feet Thickness of subsoil is  feet Depth to bedrock is  feet  Total volume of topsoil is  cubic yards Total volume of subsoil is  cubic yards  Volume of stored topsoil/subsoil is  cubic yards and will require  acres for storage. | | | |
| Storage areas are shown on maps and will be marked on the ground with permanent boundary markers? | yes  no | | |
| Topsoil will be salvaged?  If no, explain: | yes  no | | |
| Topsoil and overburden will be moved to reclaim an adjacent depleted segment?  If no, explain: | yes  no | | |
| Before materials are moved, vegetation will be cleared and drainage planned for soil storage areas?  If no, explain: | yes  no | | |
| Soil storage areas will be stabilized with vegetation to prevent erosion if materials will be stored for more than one season?  If no, explain: | yes  no | | |
| 23B. Permit and Disturbed Area Boundaries | | | |
| Boundary of the permit area will be marked on the ground with permanent boundary markers?  Explain boundary markers: | yes  no | | |
| 23C. Setbacks Screens and Buffers | | | |
| Are Screens required and are shown on maps?  yes  no | | | |
| The reclamation setback for this site will be  feet wide. | | | |
| Is a permanent, undisturbed buffer planned for this site?  If no, explain: | yes  no | | |
| Setbacks and buffers are shown on maps and have been marked on the ground with permanent boundary markers?  If no, explain: | yes  no | | |
| **23D. Buffers to Protect Streams and Flood Plains** | | | |
| Will the site include a stream or flood plain?  **If yes, see** **“Additional Requirements for Mines in Flood Plains” in “Instructions for SM-8A”.**  **If no, skip to 23E.** | yes  no | | |
| 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?  If no, explain: | yes  no | | |
| Copy of Shoreline Permit from local government or the Department of Ecology is attached? | yes  no | | |
| Hydraulic Project Approval from the Department of Fish and Wildlife is attached? | yes  no | | |
| **23E. Conservation Buffers** | | | |
| Are there any conservation buffers?  **If no, skip to 23F** | yes  no | | |
| 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 | | |
| 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 . | | | |
| Are well logs attached? | yes  no | | |
| The shallowest aquifer is  confined  unconfined | | | |
| The site will be mined:  wet  dry  both  Describe mining method: | | | |
| 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  ***If checked above, see “Additional Requirements for Mines in Hydrologically Sensitive Areas” in “Instructions for SM-8A”.*** | | | |
| Ground water study attached?  ***If no, explain:*** | yes  no | | |
| **23G. Archeology** | | | |
| Are archeological/cultural resource sites present?  If yes, describe how you will protect these resources: | yes  no | | |
| **24. MINING PRACTICES TO FACILITATE RECLAMATION** | | | |
| **24A. Soil Replacement** | | | |
| Topsoil and (or) subsoil will be restored?  If “no”, explain: | yes  no | | |
| Subsoil will be replaced to an approximate depth of  feet on the pit floor and a depth of  feet on slopes.  Topsoil will be replaced to an approximate depth of  feet on the pit floor and a depth of  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?  If no, explain: | yes  no | | |
| Topsoil will be moved when conditions are not overly wet or dry?  If no, explain: | yes  no | | |
| Topsoil will be restored to promote effective revegetation and to stabilize slopes and mine floor?  If “no”, explain: | yes  no | | |
| Topsoil will be replaced with equipment that will minimize compaction, or it will be plowed, disked, or ripped following placement?  If no, explain: | yes  no | | |
| Topsoil will be immediately stabilized with grasses and legumes to prevent loss by  erosion, slumping, or crusting?  If no, explain: | yes  no | | |
| Segmental topsoil removal and replacement is shown on maps?  If no, explain: | yes  no | | |
| Topsoil will be imported?  If yes, describe source.  Estimated volume is \_\_\_\_\_\_\_\_\_\_ cubic yards. | yes  no | | |
| 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.  If yes, explain: | yes  no | | |
| Silt from settling ponds or a filter press will be used for reclamation? | yes  no | | |
| Settling pond clay slurries will be pumped or hauled to other segments for reclamation?  If yes, explain: | yes  no | | |
| **24B. Removal of Vegetation** | | | |
| Vegetation will be removed sequentially from areas to be mined to prevent unnecessary erosion?  If no, explain: | yes  no | | |
| Small trees and other transplantable vegetation will be salvaged for use in revegetating other segments?  If yes, give details. If no, explain: | yes  no | | |
| Wood and other organic debris will be:  recycled  removed from site  chipped  burned  buried  used to synthesize topsoil or mulch  other (*explain*)  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?  If yes, give details. If no, explain: | yes  no | | |
| **24C. Stormwater and 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: | yes  no | | |
| Revegetation, sheeting, and (or) matting will be used to protect areas susceptible to erosion?  If yes, give details. If no, explain: | yes  no | | |
| Water control systems used during segmental reclamation will:  Divert clean water around pit?  Trap sediment-laden runoff before it enters a stream?  Be established to prevent erosion of setbacks and neighboring properties?  Be removed or reclaimed?  If any answers are no, explain: | yes  no  yes  no  yes  no  yes  no | | |
| Stormwater system design will be capable of carrying the peak flow of the 25-year, 24-hour precipitation event? (*Data are available at the National Oceanic And Atmospheric Administration (NOAA)*)  If yes, are calculations attached?  If yes, give details. If no, explain: | yes  no  yes  no | | |
| Natural and other drainage channels will be kept free of equipment, wastes, stockpiles, and overburden?  If no, explain: | yes  no | | |
| **25. RECLAMATION TOPOGRAPHY** | | | |
| **25A. Final Slopes** | | | |
| Final slopes will be created using the cut-and-fill method?  Explain procedure to be used: | | yes  no | |
| Slopes will be created by mining to the final slope using the cut method?  Explain procedure to be used: | | yes  no | |
| Slopes will vary in steepness?  If no, explain: | | yes  no | |
| Slopes will have a sinuous appearance in both profile and plan view?  If no, explain: | | yes  no | |
| Large rectilinear (that is, right angle, or straight, planar) areas will be eliminated?  If no, explain: | | 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: | | 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: | | 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: | | yes  no | |
| ***Review “Additional Requirements for Mines with Steep or Potentially Unstable Slopes” in “Instructions for SM-8A”.*** | | | |
| Slope stability analysis required?  If yes, attach analysis. | | yes  no | |
| **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. | | | |
| ***Review “Additional Requirements for Mines with Steep or Potentially Unstable Slopes” in “Instructions for SM-8A”.*** | | | |
| Slope stability analysis required?  If yes, attach analysis. | | yes  no | |
| Measures will be taken to limit access to the top and bottom of hazardous slopes?  Describe measures, or if no, explain: | | yes  no | |
| 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?  Blasting plan attached?  If no, explain: | | yes  no  yes  no | |
| 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?  Blasting plan is attached?  If no, explain: | | yes  no  yes  no | |
| Access to benches will be maintained for reclamation blasting?  If no, explain: | | yes  no | |
| 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?  **If no, skip to 25E.** Maximum depth of backfilling is  feet. | | yes  no | |
| Backfill will be  onsite materials  imported materials  both  Provide a written screening method that ensures importation of acceptable soil for reclamation. | | | yes  no |
| Backfilling plan is attached?  If no, explain: | | yes  no | |
| 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?  If no, explain: | | yes  no | |
| Will you be backfilling to create slopes?  Is slope stability analysis attached?  If no, explain. | | yes  no  yes  no | |
| **25E. Mine Floors** | | | |
| Flat areas will be formed into gently rolling mounds?  If yes, give details. If no, explain: | | yes  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: | | 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: | | 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  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: | | yes  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: | | 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?  If yes, give details. If no, explain: | | yes  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: | | yes  no  yes  no  yes  no  yes  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: | | yes  no  yes  no  yes  no  yes  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: | | yes  no | |
| Written approval from other agencies with jurisdiction to regulate impoundment of water is attached?  If no, explain: | | yes  no | |
| **25G. Final Drainage Configuration** | | | |
| Drainages will be constructed on each reclaimed segment to control surface water, erosion, and siltation?  Result in essentially natural conditions of volume, velocity, and turbidity?  Clean runoff is directed to a safe outlet?  If yes, give details. If no, explain: | | yes  no  yes  no  yes  no | |
| 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***  The final ground surface drains away from any hazardous natural materials?  If yes, give details. If no, explain: | | yes  no  yes  no | |
| Plan for handling hazardous mineral wastes indigenous to the site is attached?  If no, written approval from all appropriate solid waste regulatory agencies attached? | | yes  no  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, and other structures will be removed from the site?  If either answer is yes, give details. If no, explain: | | yes  no  yes  no | |
| **27. REVEGETATION** | | | |
| The mine site is in:  eastern Washington Revegetation area is:  wet  dry  both  western Washington  The average precipitation is  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 mine segments?  If yes, give details. If no, explain: | | yes  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).  Revegetation is inappropriate for the approved subsequent use of this surface mine.  Explain: | | | |
| **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\*  grasses  alfalfa\*  juniper  black locust  lodgepole pine  clover  lupine\*  deciduous trees  ponderosa pine  shrubs  deep-rooted ground cover  diverse evergreens  other | | | |
| **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](https://www.dnr.wa.gov/publications/fp_board_manual_section06.pdf?6kv1cbn); lbs/acre of grass, legume, or forb mixture): | | | |
| Describe weed control plan: | | | |
| **27B. Planting Techniques** | | | |
| Revegetation at this site will require:  Ripping and tilling?  Blasting to create permeability?  Mulching?  Irrigation?  Fertilization?  Importation of clay- or humus-bearing soils?  Other soil conditioners or amendments?  Give details: | | yes  no  yes  no  yes  no  yes  no  yes  no  yes  no  yes  no | |
| Trees and shrubs will be planted in topsoil or in subsoil amended with generous amounts of organic matter?  If yes, give details. If no, explain: | | yes  no | |
| Mulch will be piled around the base of trees and shrubs?  High quality stock will be used?  Trees and shrubs will be planted while they are dormant?  Stock will be properly handled, kept cool and moist, and planted as soon as possible?  Seeds will be covered with topsoil or mulch no deeper than one-half inch?  If any answers are no, explain: | | yes  no  yes  no  yes  no  yes  no  yes  no | |
| **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:  Archeological  Geohydrologic  Backfill  Slope stability  Topsoil  Flood plain  Conservational  Vegetation  Other | | | |
| Other permits required?  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 Approval  Special or Conditional Use Permit  Other | | | |

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| **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):  Address(es): | | | | |
| **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 |
| **LANDOWNER(S)**  As landowner, I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (name) authorize the applicant to extract minerals from my land using surface mining methods and I approve this reclamation plan.  Signature: Date signed: | | | | |
| **FOR DEPARTMENTAL USE ONLY** | | | | |
| Date accepted | Accepted by: Title: | | Reclamation Permit No. | |