



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 MISSOURI GEOLOGICAL SURVEY  
 LAND RECLAMATION PROGRAM  
**MINE PLAN AND FORM INSTRUCTIONS**

PERMIT NAME		PERMIT NUMBER	
SITE NAME		SITE NUMBER	
MINERAL COMMODITY(IES)	ESTIMATED TONS/YEAR (SAND/GRAVEL ONLY)	MINE PLAN ACRES	COUNTY
LAND GRANT	SECTION	TOWNSHIP	RANGE

Is this Mine Plan boundary located 1,000 feet or closer to the property boundary of an accredited school that has been established for five or more years?  Yes  No  Not Applicable

Estimated operation end date (this will be used in the public notice process):

**NOTE:** Each site must be shown on a locator map, a detail map, and must be published in a public notice after the program deems the application complete.

**RECLAMATION AND OPERATIONS PLAN**

**LATERAL SUPPORT REQUIREMENTS 10 CSR 40-10.050(2) or 444.774.1(5)**

HOW CLOSE WILL THE POINT OF EXCAVATION, BELOW ROAD ELEVATION, BE TO THE NEAREST PUBLIC ROAD RIGHT-OF-WAY (MEASURED IN FEET)? \_\_\_\_\_ (FEET)

WHAT IS THE MAXIMUM DEPTH OF UNCONSOLIDATED MATERIAL AT THE CLOSEST POINT OF EXCAVATION TO THE NEAREST PUBLIC ROAD RIGHT-OF-WAY? (UNCONSOLIDATED MATERIAL ABOVE THE ROAD ELEVATION SHOULD NOT BE REPORTED) \_\_\_\_\_ (FEET)

THE MINIMAL ALLOWABLE DISTANCE IS: (25 feet + 1.5 \* unconsolidated material depth, below road elevation, in feet at closest point of excavation) or 50 feet, whichever is greater. \_\_\_\_\_ (FEET)

ADDITIONAL COMMENTS:

**NOTE:** LATERAL SUPPORT REQUIRES THE FOLLOWING EXCAVATION SET BACKS TO PREVENT SLOUGHING OF ADJACENT PUBLIC ROAD RIGHT-OF-WAYS. THE DISTANCE TO THE NEAREST PUBLIC ROAD RIGHT-OF-WAY MUST BE TWENTY-FIVE FEET PLUS ONE AND ONE-HALF TIMES THE DEPTH OF UNCONSOLIDATED MATERIAL (IN FEET) FROM THE POINT OF EXCAVATION. OTHERWISE, THE MINIMAL ALLOWABLE DISTANCE TO THE POINT OF EXCAVATION FROM THE RIGHT-OF-WAY IS 50 FEET, UNLESS A VARIANCE IS GRANTED.

BASED ON NOTE ABOVE, IF EXCAVATION WILL REMOVE THE LATERAL SUPPORT (UNCONSOLIDATED MATERIAL) FOR THE ADJACENT PUBLIC ROAD RIGHT-OF-WAY BY TAKING PLACE WITHIN THESE DISTANCES DESCRIBED, HAS A VARIANCE BEEN APPROVED BY THE ROAD AUTHORITY HAVING JURISDICTION OVER THE ROAD?

Yes – APPROVAL ATTACHED  Not Applicable

**NOTE:** APPROVAL MUST BE GRANTED FROM THE ROAD AUTHORITY PRIOR TO SUBMITTING APPLICATION.

BASED ON NOTE ABOVE, IF EXCAVATION WILL REMOVE THE LATERAL SUPPORT (UNCONSOLIDATED MATERIAL) FOR THE ADJACENT PUBLIC ROAD RIGHT-OF-WAY BY TAKING PLACE WITHIN THESE DISTANCES DESCRIBED, HAS A VARIANCE BEEN (OR WILL BE) REQUESTED FROM THE MISSOURI MINING COMMISSION?

Yes  Not Applicable

**BE ADVISED:** NO POINT OF EXCAVATION MAY TAKE PLACE IF IT REMOVES THE LATERAL SUPPORT WITHIN SPECIFIED DISTANCE FROM THE NEAREST ROAD RIGHT-OF-WAY UNTIL THE VARIANCE HAS BEEN APPROVED BY THE MISSOURI MINING COMMISSION.

**SAFETY BARRIER REQUIREMENTS 10 CSR 40-10.050(3) or 444.774.1(6)**

IF POINT OF EXCAVATION IS WITHIN SPECIFIED DISTANCES FROM THE NEAREST ROAD RIGHT-OF-WAY, AN ADEQUATE BARRIER, MINIMUM OF THREE FEET HIGH, MUST BE IN PLACE. DESCRIBE BARRIER:

IF POINT OF EXCAVATION IS WITHIN 50 FEET OF ANY PROPERTY LINE, AN ADEQUATE BARRIER, MINIMUM OF THREE FEET HIGH, MUST BE IN PLACE. DESCRIBE BARRIER:

**ACID-FORMING MATERIAL REQUIREMENTS 10 CSR 40-10.050(5)(C) or 444.774.1(8) or 10 CSR 40-10.020(2)(D)1.C.**

ARE ACID-FORMING MATERIALS PRESENT? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None Anticipated If encountered during mining, refer to 10 CSR 40-10.050(5)(C)	IF YES, PLEASE DESCRIBE HOW THE MATERIAL WILL BE HANDLED.
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**SUBSTITUTION OF PREVIOUSLY MINED LAND FOR RECLAMATION**

DOES THE OPERATOR PLAN TO SUBSTITUTE PREVIOUSLY MINED LAND FOR THE ACTUAL AREA DISTURBED BY THE PERMITTED MINING?  Yes  No

IF YES, DESCRIBE:

PERMIT NUMBER	SITE NUMBER
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**TOPSOIL REQUIREMENTS 10 CSR 40-10.050(6)**

ARE 12 INCHES OF TOPSOIL PRESENT? (TOPSOIL IS DEFINED AS THE 12 INCH LAYER THAT INCLUDES THE A HORIZON AND THE UNCONSOLIDATED MATERIAL IMMEDIATELY BELOW THE A HORIZON)

Yes     No    IF NO, A NRCS SOIL SURVEY MUST BE SUBMITTED WITH THE APPLICATION. PLEASE DESCRIBE DEPTH OF TOPSOIL PRESENT:

WILL TOPSOIL BE REMOVED?

IF YES, DESCRIBE METHOD OF REMOVAL:

Yes     No

WILL TOPSOIL BE SOLD OR DISCARDED OFF-SITE?

IF YES, DESCRIBE:

Yes     No

WILL ENOUGH TOPSOIL BE LEFT ON-SITE FOR RECLAMATION REQUIREMENTS?

IF NO, DESCRIBE:

Yes     No

WILL TOPSOIL BE STOCKPILED?

IF YES, DESCRIBE THE LOCATION OF STOCKPILE WITHIN PERMIT AREA:

Yes     No

IF TOPSOIL IS STOCKPILED, PLEASE DESCRIBE HOW TOPSOIL WILL BE PROTECTED FROM EROSION?

**OVERBURDEN HANDLING REQUIREMENTS 444.774.1(2) and 10 CSR 40-10.050(6)(D)**

WILL OVERBURDEN BE USED AS A SUBSTITUTE MATERIAL FOR TOPSOIL?

IF YES, DESCRIBE:

Yes     No

WILL OVERBURDEN BE STOCKPILED?

IF YES, DESCRIBE THE LOCATION OF STOCKPILE WITHIN PERMIT AREA:

Yes     No

IF OVERBURDEN IS STOCKPILED, WILL STOCKPILE BE GRADED AND SEEDED?

IF YES, DESCRIBE SEED MIX TO BE USED:

Yes     No

**GRADING REQUIREMENTS 10 CSR 40-10.050(5)**

WILL UNCONSOLIDATED MATERIALS IN AFFECTED AREAS BE GRADED TO A FREE DRAINING TOPOGRAPHY TRAVERSABLE BY FARM MACHINERY AND SUITABLE FOR THE INTENDED LAND USE?

IF NO, DESCRIBE:

Yes     No

WILL ANY HIGHWALL CONSISTING OF CONSOLIDATED MATERIALS BE LEFT ON THE PROPERTY?     Yes     No

**TIMING OF RECLAMATION 444.774.2**

WILL GRADING AND TOPSOIL REPLACEMENT BE COMPLETED WITHIN ONE YEAR AFTER MINING OF VIABLE MINERAL RESERVES IS COMPLETE IN THAT PORTION OF THE PERMIT AREA?

IF NO, DESCRIBE:

Yes     No

WILL SEEDING AND PLANTING REQUIREMENTS BE COMPLETED WITHIN 2 YEARS AFTER MINING OF VIABLE MINERAL RESERVES IS COMPLETE IN THAT PORTION OF THE PERMIT AREA?

IF NO, DESCRIBE:

Yes     No

PERMIT NUMBER

SITE NUMBER

**POST-MINING LAND USES (Acreage Must Total Mine Plan Acreage) 444.772.2(6) or 10 CSR 40-10.020(2)(D)3.E.**

DESCRIBE SITE PRIOR TO PERMITTING: INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

CHECK ALL POST-MINING LAND USES THAT APPLY:	ACRES PER LAND USE	CIRCLE ALL THAT APPLY AND/OR FILL IN "OTHER" DESCRIPTION
<input type="checkbox"/> Wildlife* *(protected from livestock)		Forest, wildlife habitat, rocky outcropping, other: _____
<input type="checkbox"/> Agricultural		Pasture, cropland, horticultural, other: _____
<input type="checkbox"/> Development		Residential, industrial, recreational, other: _____
<input type="checkbox"/> Water Impoundments		Pond with dam, filled pit - no dam, other: _____

**LANDOWNER – (ATTACH ADDITIONAL SHEETS, IF NEEDED)**

PRINTED NAME OF LANDOWNER		TELEPHONE NUMBER WITH AREA CODE	
MAILING ADDRESS	CITY	STATE	ZIP CODE

**MINERAL RIGHTS OWNER:  CHECK IF SAME AS LANDOWNER**

PRINTED NAME OF LANDOWNER		TELEPHONE NUMBER WITH AREA CODE	
MAILING ADDRESS	CITY	STATE	ZIP CODE

**SOURCE OF LEGAL RIGHT TO MINE – (CHECK ONE) 444.772.2(2) or 10 CSR 40-10.020(2)(A)6.**

Mineral deed     Warranty deed     Lease     Verbal     Other (Describe): \_\_\_\_\_

Date of agreement: \_\_\_\_\_

**LANDOWNER SIGNATURE - REQUIRED FROM EACH LANDOWNER IN AREAS LEASED AFTER AUGUST 28, 1990**

By my signature, I attest to the following:

1. I have received a copy, understand and give approval of the proposed post-mining land use(s) and revegetation plan(s) to be utilized during reclamation.
2. I understand that if the operator seeks to revise the post-mine land use(s) or revegetation plan(s), the operator shall obtain my approval and signature. I will be given a copy of the revised post-mining land use(s) and revegetation plan(s) prior to the revision being implemented.
3. I hereby grant to the Staff Director of the Land Reclamation Program and authorized representatives the right of entry upon our lands or surface mining operations for the purpose of making necessary field inspections, covering land reclamation in order to ensure compliance with The Land Reclamation Act, Sections 444.760 to 444.790 RSMo.

PRINTED NAME OF LANDOWNER	SIGNATURE OF LANDOWNER	DATE
PERMIT NUMBER	SITE NUMBER	

**REVEGETATION PLAN – (ATTACH ADDITIONAL SHEETS, IF NEEDED) 444.774.1(10)**

**PLAN #1**

POST-MINING LAND USE	SEEDING OR PLANTING TIME
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DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations based upon soil analyses from a qualified soils lab. Mulch will be applied to all slopes exceeding 5:1.

Seeded Species	Pounds/Acre	Tree or Shrub Species	Stems/Acre

**PLAN #2**

POST-MINING LAND USE	SEEDING OR PLANTING TIME
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DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations based upon soil analyses from a qualified soils lab. Mulch will be applied to all slopes exceeding 5:1.

Seeded Species	Pounds/Acre	Tree or Shrub Species	Stems/Acre

**PLAN #3**

POST-MINING LAND USE	SEEDING OR PLANTING TIME
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DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations based upon soil analyses from a qualified soils lab. Mulch will be applied to all slopes exceeding 5:1.

Seeded Species	Pounds/Acre	Tree or Shrub Species	Stems/Acre

PERMIT NUMBER	SITE NUMBER
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**APPLICANT SIGNATURE REQUIRED**

By my signature, I attest to the following:

1. I am qualified under regulatory definition to be the responsible official for the above-named permit.
2. All statements made on this Mine Plan are correct, complete, and true to the best of my knowledge.
3. I, or the company I am authorized to represent, intend to mine in accordance with this Mine Plan, in accordance with The Land Reclamation Act, Sections 444.760 through 444.790, RSMo, and all rules, regulations, orders, decisions, conditions and permits of the Missouri Land Reclamation Program pertaining to my company's surface mining operations.
4. I have obtained the approval of all landowners, (for all lease agreements made after Aug. 28, 1990 on leased land) for all proposed post-mine land use(s) and revegetation plan(s) and have given the landowner a copy of the Mine Plan. If the post-mine land use or revegetation plan changes, I will notify the landowner(s) and submit a new mine plan with new landowner signature(s) dated prior to the changes being implemented, with the understanding if these changes are significant, I acknowledge a new public notice may be required.
5. We, the undersigned, hereby grant to the Staff Director of the Land Reclamation Program and authorized representatives the right of entry upon our lands or surface mining operations for the purpose of making necessary field inspections, covering land reclamation in order to ensure compliance with The Land Reclamation Act, Sections 444.760 to 444.790 RSMo.

SIGNATURE OF APPLICANT	TITLE	DATE
Submit all forms to:	Missouri Department of Natural Resources Land Reclamation Program PO Box 176 Jefferson City, MO 65102-0176	Phone: 573-751-4041 Fax: 573-751-0534 Website: <a href="http://dnr.mo.gov">dnr.mo.gov</a>

**FOR DEPARTMENT USE ONLY**

APPROVED BY	DATE APPROVED	PERMIT NUMBER	SITE NUMBER
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## Instruction for Completing Mine Plan Form (MO 780-1327)

This form should be submitted with all permit applications except renewals, amendments and bond releases. A separate Mine Plan must be submitted for each permitted site. **Note:** This form should be submitted when a change of landowner takes place.

Complete the following site specific boxes: Permit Name, Site Name, Mineral Commodity(ies), Estimated Tons per Year (Sand and Gravel only), Mine Plan Acres, County, and Legal Description (Land Grant, Section, Township, Range). Indicate if the mine plan boundary is 1,000 feet or closer to the property boundary of an accredited school that has been established for 5 or more years. Check the box that applies. Enter estimated operation end date. **Note:** Each site must be shown on a locator map, a detailed map, and must be published in a public notice.

### Reclamation and Operation Plan

This section is comprised of individual categories that describe how the site appeared prior to mining, how the site will be operated and how the site will be reclaimed.

**Lateral Support Requirements:** Applicant must describe the distance of the mine excavations to the right-of-way of any public road and/or specify depth of unconsolidated material if excavation will go below the road elevation and occur near public road right of way or property line. If excavation is within noted distances, you must include written approval from the road authority. A description of the situation must be provided, and the applicant must indicate whether a variance has been or is being requested from the Missouri Mining Commission regarding the noted distance requirement.

**Safety Barrier Requirements:** Applicant must indicate if any mine excavation will occur within the specified distance from the road right-of-way or within 50 feet of any property line, and if so indicate the type of safety barrier that will be erected.

**Acid-Forming Material Requirements:** The applicant must indicate if acid-forming materials are present and how they will be handled if found.

**Substitution of Previously Mined Land for Reclamation:** Applicant must indicate if the operator plans to substitute previously mined lands for actual permitted area when reclaiming land. A map of the substituted land and mine plan form for this area must be submitted.

**Topsoil Requirements:** Applicant must answer six questions about topsoil amounts, removal, sales, retention for reclamation, stockpile, and erosion control.

**Overburden Requirements:** Applicant must indicate if overburden will be used as a substitute for topsoil. If overburden will be stockpiled, describe the location, and the seed mix to be used for stabilization.

**Grading Requirements:** Indicate if the site will be graded to a free draining topography. If not, please describe. Indicate if a consolidated highwall will be left on site.

**Timing of Reclamation:** Applicant must indicate they agree to begin reclamation within 1 year of removal of viable mineral reserves and to complete it within 2 years. If the applicant cannot meet this time schedule, they must describe how the site will be reclaimed.

**Post-Mine Land Uses:** Describe the condition of the site prior to mining. Applicant must check any post mining land uses from the list that applies, mark the number of acres allocated to each land use, and circle specific descriptions applicable to the land use. The acreage of post-mining land uses must total the mine plan acreage indicated on the first page and in the public notice.

**Landowner**

Fill in the following boxes: Name of Landowner, Phone Number with Area Code, Mailing Address, City, State and ZIP Code. **Note:** Complete a separate page for each landowner.

**Mineral Rights Owner**

Fill in the following boxes if different than landowner: Name of Mineral Rights Owner, Phone Number with Area Code, Mailing Address, City, State and ZIP Code. **Note:** Complete a separate page for each Mineral Rights Owner.

**Source of Legal Right to Mine**

Check the box that applies: Mineral Deed, Warranty Deed, Lease, Verbal or Other. Enter the date of the agreement. If you have a lease or verbal agreement, the date the agreement was made should be entered on the form.

**Landowner Signature**

All boxes must be completed.

**Revegetation Plan:** Applicant must complete a Revegetation Plan for each post mine land use. The Revegetation Plan must include seeded species, tree or shrub species, and their quantity in pounds per acre or stems per acre. There must be at least one complete revegetation plan.

**Applicant Signature**

The applicant must sign, date and provide their title affirming the following:

1. The person signing is doing so as a responsible official as indicated by regulations.
2. All statements on the permit application are true to the best of their knowledge.
3. She or he intends to mine in accordance with this Mine Plan and the Land Reclamation Act.
4. She or he has received approval from all landowners for all proposed post-reclamation land uses and seed mixtures for leases after 1990 and;
5. She or he grants to the Staff Director of the Missouri Land Reclamation Program and authorized representatives the right of entry for surface mining operations for the purpose of making field inspections to ensure compliance with the Land Reclamation Act.