

Mine Operation Plan (MOP)
For New Mexico State Land Office Construction Materials Lease
Lease Number: _____

Date: _____

Company Name: _____

Address: _____

Legal Land Description: _____

New Mexico State Highway and Transportation Department Project Number: _____

All materials to be mined and marketed (i.e. sand, gravel, dirt, caliche, gypsum, clay, stone, perlite, shale, volcanic deposits, crusher fines):

- The active mining area will be no more than 5 acres at any one time (unless site specific mining operations require more disturbance area and this is detailed in the Mine Operation Plan) and reclamation will begin as soon as 5 acres have been mined.
- Reclamation is to be carried out contemporaneously with mining so that at any given time all previously mined acreage is under reclamation and no more than 5 acres are being actively mined without express written approval by the Commissioner of Public Lands.
- The area used for processing operations and stockpiling is to be kept to a minimum and reclaimed as soon as it is no longer needed for processing or stockpiling material.
- The topsoil on the processing area is to be removed and stockpiled prior to installing any equipment or improvements. No topsoil will be sold or removed from the site unless specifically approved in the lease.
- The lease site will be kept free of junk and debris. No trash or garbage will be buried on site.

REMINDER: If the total area of disturbance is 10 or more acres, the MOP is to be prepared, signed and stamped by a registered professional engineer.

The MOP for long-term projects, such as quarries, must include the long-range plans for the lease site as well as the plans for the lease term. The MOP for short-term projects, typically one year or less, addresses plans for the lease term only. Any other information relevant to the specific operation should also be included.

Required Mine Operations Plan information: (If any item does not apply, please explain an N/A.)

1. Description of the existing road access to the lease site, including distances, state highway and county road numbers, and local and private road names. This may be done by annotating a topographic map.
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2. Locations and lengths of any proposed new haul or access roads to be constructed on the mineral lease site. Any road constructed on State Trust land has to be approved pursuant to SLO Rules 10 (19.2.10 NMAC) and 20 (19.2.20 NMAC). A right-of-way will be required if access is not through a county road or if crossing SLO trust land not included in the mining lease. When the mining operation is complete, the haul and access roads built for the mining operation may have to be removed following SLO Rule 20 (19.2.20 NMAC). The access or haul roads may be shown on a topographic map. The SLO Right-of-Way group may be contacted at 505-827-5789.
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3. A plat showing scaled locations of the pit site or the area to be mined.
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4. Approximate amount, either weight or volume, of material to be removed during the term of the lease, or over the remaining life of the mine:
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5. *Describe how you intend to track, record and pay the State Land Trust on a monthly basis for all material mined and removed from the site:
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***Note: Upon completion of mining and reclamation at the mineral lease site, the Commissioner may deem it necessary to conduct an audit of the lessee's records and/or a final volumetric survey of the mineral lease removal area as final verification that the volume of material removed and paid for was accurate. This survey will serve as final assurance that all material removed was appropriately measured and paid for. Should a volumetric discrepancy be found, it will be necessary for the lessee to reconcile that discrepancy to the Commissioners satisfaction prior to lease close-out and final bond release.**

6. Number of acres to be disturbed during both the lease term and the life of the mine for the mining area and for the processing area:
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7. Estimated depth and thickness of topsoil and depth and thickness of overburden present at the mine site:
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8. Plans for preserving the topsoil and overburden stockpiles throughout the life of the mine so that they are available for use in reclamation, including topsoil that is removed prior to

construction of processing areas for equipment and improvements such as crushers, hot-mix plants, or water impoundments:

9. A list and short description of all improvements and equipment to be placed or built on the site for mining and processing the minerals, e.g. crushing and screening plants, hot-mix plants, concrete plants, weigh scales, concrete foundations and piers, fences, and water impoundments or storage tanks:

10. List all material types and quantities that will be hauled, stored or utilized on-site as part of any processing activities (i.e. binders, additives, asphalt recycle, concrete additives, etc).

11. Description of disposal plan for any remaining material used for processing activities that was hauled from off-site (no off-site derived products may be disposed of on State Trust Lands for any reason).

12. Plans for disposing of tailings and other mine waste materials, e.g. using crusher fines for backfilling the pit:

13. The plans, if any, for drilling and developing water wells on the lease site:

14. Description and design of any dams, impoundments or other methods of control to be built for runoff and run-on water and sediment control:

15. Description and design of any slope stabilization methods to be used:

16. Description of any blasting procedures to be used:

17. (A) Proposed depth of the pit at the end of the lease term; (B) proposed depth after mining is complete; and (C) proposed final depth after reclamation is complete. If a pit will not be excavated, please state what the total drop in mine site elevation is planned to be.

(A) _____ (B) _____ (C) _____

***Include an up-to-date Plan View sketch of the entire lease site showing the following:
(A map printed from the State Land Office website, using the GIS system may be helpful:
<http://landstatus.nmstatelands.org>):***

18. Location and dimensions of the current and proposed pit or mined area, mining sequence, direction of mining, and location of scales (if applicable).
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19. Location and dimensions of any existing and proposed pits, trenches, highwalls, previously disturbed areas, etc.
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20. The locations and size of all existing and proposed stockpiles, such as topsoil, overburden, mined materials, crusher fines, waste materials, etc.
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21. Location and dimensions of all current and proposed improvements and equipment to be installed on the site.
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22. Locations of current and proposed dams and impoundments to be built for runoff and runoff water and sediment control.
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23. Existing and planned fences and roads.
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24. Anything else located on the lease site such as pipelines, oil/gas wells, electric transmission lines, etc.
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25. If locations are specified in Universal Transmencator (UTM) coordinates, include the datum used.
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26. Location of on-site ROWs such as pipelines, oil/gas wells, and electric transmission lines. (SLO Right of Way group number: (505)827-5789)
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Include sketches and discussion of the mining sequences, referenced to the Plan View sketch of the site, including:

27. Where mining will begin:

28. What direction the mining will move:

29. Area to be mined during new lease term:

30. Plans and schedules for concurrent mining and reclamation activities:

31. The proposed schedule and timetables, including months and years, for the entire operation:

32. Where the crusher will be relocated as the pit or mined area expands:

Include:

33. A description of methods to be used for dust suppression and control on the lease site:

34. A Spill Prevention, Reporting, and Cleanup Plan for hazardous materials:

35. A Disposal Plan for solid and liquid wastes, and hazardous wastes:

36. A Security and Access Control Plan including a description of fencing and number and location of "No Trespassing" signs to be installed:

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37. Archaeological clearance

- If a new mining site (no prior mining), a Class III archaeological survey may be required. Contact the SLO Cultural Resources Specialist at 505-827-5857 for a letter of clearance.
 - If a New Mexico Department of Transportation project, the letter of clearance must be sent to the SLO Minerals Manager; reports of findings are sent directly to the SLO Cultural Resources Specialist.
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38. A list of all federal, state, and local permits required for this particular operation, e.g. Army Corps of Engineers Section 404 permits, US EPA National Pollutant Discharge Elimination System (NPDES) Permits, New Mexico Environment Department (NMED) Air Quality Permits, etc.

39. Endangered Species clearance (If applicable)

A letter of clearance must be sent to the SLO Minerals Manager; the full report is sent to the SLO Conservation Biologist.

I affirm that the above statements are true and accurate to the best of my knowledge and belief.

Company Name

Date

Authorized Agent Signature

Printed Signature

Registered Professional Engineer Signature
(Required for total area disturbance of 10 or more acres)

SEAL:

NEW MEXICO STATE LAND OFFICE
REVIEWED BY:

Name

Date