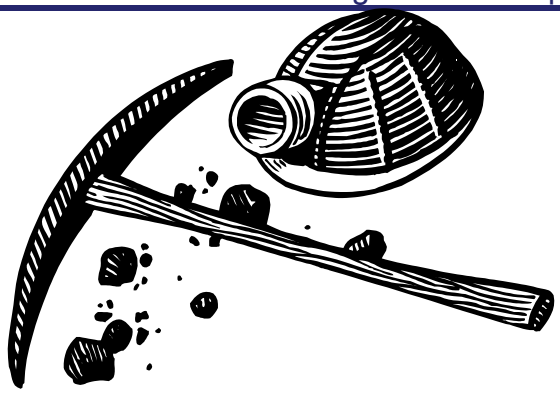
City of Omaha
Industrial Best Management Practices
Sector J – Mineral Mining and Dressing

SIC Codes: 1411, 1422-1429, 1442, 1446, 1455,1459,1474-1479.1481,1499

- **Mineral Mining and Dressing**
- Frequently inspect and clean processing equipment and storage areas
- Immediately clean up spills using appropriate methods
- Cover and contain storage areas and process equipment



OVERBURDEN, WASTE ROCK, SAND FINES, AND SUBORE STOCKPILE AREAS

- Locate stockpiles at least 50 ft from surface waters and drainage courses.
- Locate stockpiles in stabilized areas.
- Store topsoil in a stockpile separate from subsoil or bedrock materials.
- Use channels, drainage ditches, swales, berms and curbs to divert stormwater away from stockpiles.
- Use serrated or benched slopes to direct stormwater away stockpiles.
- Cover smaller stockpiles with weighted anchored tarps.
- Revegetate stockpiles. Seed stockpiles with a fast growing, dense grass. Permanent seeding is a very effective way to reduce stockpile Erosion.
- Use swales, channels, or gutters to convey contaminated stormwater to sedimentation or settling ponds.
- Construct silt fences or vegetated berms around stockpiles.

DRUM STORAGE

- Store waste in non-leaking, noncorrosive tightly sealed drums.
- Store drums on an impervious surface, in a roofed or three sided structure, or cover with weighted tarps or awnings.
- Provide secondary containment such as berms, dikes, or other physical barriers to contain 110% of the total volume of all drums.
- Use swales, drainage ditches, curbing, or grading to direct stormwater away from storage area.

GRAVEL AND SAND PITS

- Maintain a gentle grade. Try to maintain a slope less than 33% (3:1).
- Keep pits clean and free of unnecessary debris.
- Use benches, serrated slopes, or terraces to reduce the velocity and flow of runoff.
- Disturb as little natural vegetation as possible.
- Site gravel and sand pits at least 200 ft away from any streams.
- Cover loads on trucks to prevent the dispersion of dust and spills.
- Use ditches, dikes, curbing, or berming to direct runoff away from active faces or pits.

HAUL AND ACCES ROADS

- Establish roads in geologically stable areas. Locate roads as far as possible from wetlands, lakes, ponds, floodplains. Use the minimal width and grade for all roads.
- Allow natural vegetation along road sides to remain.
- Use dikes, curbs, and berms to divert stormwater away from roads and into the site's stormwater treatment areas.
- Use open top box culverts, water bars, or rolling dips to convey surface runoff into road side ditches.

VEHICLE REPAIR AND MAINTAINCE

- Use drip pans under all vehicles and equipment waiting for maintenance.
- Regularly inspect for filling or full drip pans.
- Provide secondary containment for fuels fluids.
- Do not pour liquid waste down floor drains, sinks, or outdoor storm drain inlets.
- Properly dispose of greasy rags, oil filters, air filters, batteries, spent coolant, and degreasers. Promptly transfer used fluids to an appropriate storage container.
- Store used batteries in a non-leaking, non-corrosive container.
- Fuel vehicles on impervious surfaces. Use funnels and drip pans to reduce spillage.
- Wash vehicles at a commercial facility or follow the Wastewater Management guidance document for washing vehicles.
- Direct wash water away from any on site streams, stormwater drains, or drainage ditches.

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EXTRACTION (Open Pit and Open Face Mining as well as Quarries)

- Disturb as little natural vegetation as possible. Seed exposed soil surface with a fast growing grass or other dense plants.
- Seed all areas that will not be brought to final grade for more than one month.
- Bring the site to final grade as soon as possible. Distribute topsoil and begin seeding as soon as possible.
- Mulch erosion prone areas. Mulching, like restoring vegetation, covers bare soil surfaces and can reduce the amount of sediment picked up by runoff.
- Use sod or rip rap to stabilize erosion prone areas.
- Incorporate serrated or benched slopes into the site's plan. Use a low grade for as many slopes as possible.
- Use dikes, berms, or curbing to direct stormwater away from high activity areas.
- Use grassy swales or channels to pre-treat and direct stormwater into the site's stormwater holding system.
- Use silt fences or erosion control matting in areas susceptible to erosion.
- Construct or install a level spreader or similar method of runoff dispersion.
- Locate brush barriers at the toe of a slope.
- Place check dams along swales or drainage pathways.
- Use rip rap or dense vegetation to reduce erosion at the outlet of channels or other conduits.

TRAINING

- All employees shall be trained in the following areas and on BMPs in the SWMP yearly.
- Proper washing procedures.
- Proper disposal practices for all materials.
- Procedures for storage and inspection items.
- Proper filling and transfer procedures.
- Spill response
- Good housekeeping
- Material management practices
- Equipment and container washing.

INSPECTIONS

- Conduct an inspection of the facility at least quarterly.
- Complete the storm water BMP checklist.
- Immediately inspect all vehicles upon arrival for leaks.
- Look for signs of leakage quarterly.
- Inspect all equipment containing oily parts, hydraulic fluids, or any other type of fluids.
- All liquid storage areas, including antifreeze, oil, brake, transmission fluid, etc.
- Review BMPs after each inspection and modify them and the SWPPP or SWMP as needed.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) OR STORM WATER MANAGEMENT PLAN (SWMP)

- Develop and implement a SWPPP or SWMP.
- All regulated facilities must submit a Notice of Intent (NOI) to NDEQ.

If spills occur:

- **Stop the source of the spill immediately.**
- **Contain the liquid until cleanup is complete.**
- **Deploy oil containment booms if the spill may reach the street or waterways.**
- **Cover the spill with absorbent material.**
- **Keep the area well ventilated.**
- **Dispose of clean-up materials properly.**
- **Do not use an emulsifier or dispersant.**

Contacts

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