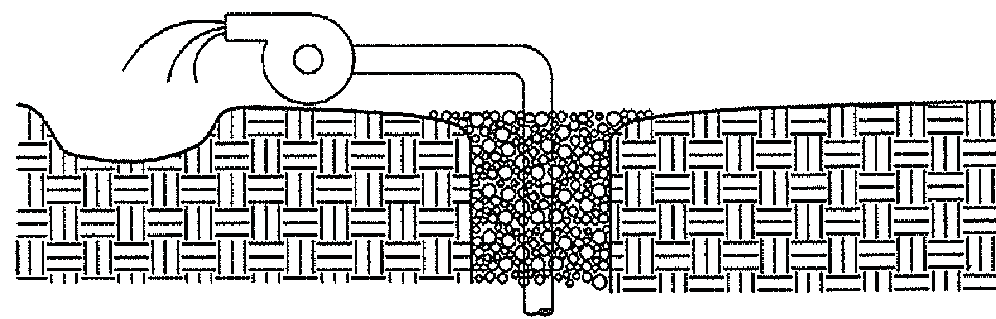


Dewatering Operations



Applications
Perimeter Control
Slope Protection
Sediment Trapping
Channel Protection
Temporary Stabilization
Permanent Stabilization
Waste Management
Housekeeping Practices

DESCRIPTION

Prevent or reduce the discharge of pollutants to storm water from dewatering operations by using sediment controls and by testing the water for contamination.

APPLICATIONS

There are two general classes of pollutants that may result from dewatering operations: sediment, and toxics and petroleum products. A high sediment content in dewatering discharges is common because of the nature of the operation. On the other hand, toxics and petroleum products are not commonly found in dewatering discharges unless, the site or surrounding area has been used for light or heavy industrial activities, or the area has a history of groundwater contamination.

DESIGN CRITERIA

- Use sediment controls to remove sediment from water generated from dewatering.
- Use filtration to remove sediment from a sediment trap or basin. Filtration can be achieved with:
 - Sump pit and a standpipe in the center with holes and wrapped in filter fabric. The standpipe is surrounded by stones which filter the water as it collects in the pit before being pumped out;
 - Floating suction hose allowing cleaner surface water to be pumped out; or
 - Standpipe in the sediment basin with slits and wrapped in filter fabric to remove sediments.
- Toxics and Petroleum Products:
 - In areas suspected of having groundwater contamination, protect yourself early in the excavation process by sampling and having the water tested at a certified laboratory. Check with the Louisiana Department of Environmental Quality and the PROGRAM MANAGER for their requirements, including additional water quality tests and disposal options.

Targeted Constituents
☐ Sediment
☐ Nutrients
☐ Toxic Materials
☒ Oil & Grease
☐ Floatable Materials
☒ Other Construction Wastes

Implementation Requirements
☒ Capital Costs
☐ Maintenance
☒ Training
☐ Suitability for Slopes >5%

Legend
☒ Significant Impact
☐ Medium Impact
☐ Low Impact
☐ Unknown or Questionable Impact

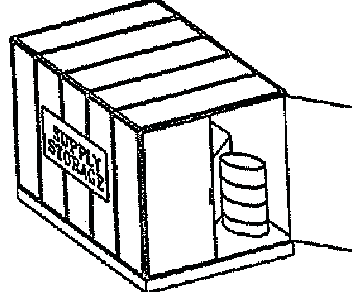
BMP

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City of Baton Rouge
Parish of
East Baton Rouge

Department of
Public Works

Material Delivery And Storage



Applications
Perimeter Control
Slope Protection
Sediment Trapping
Channel Protection
Temporary Stabilization
Permanent Stabilization
Waste Management
Housekeeping Practices

DESCRIPTION

Prevent or reduce the discharge of pollutants to storm water from material delivery and storage by minimizing the storage of hazardous materials on-site, storing materials in a designated area, installing secondary containment, conducting regular inspection, and training employees and subcontractors.

This best management practice covers only material delivery and storage. For information on wastes, see the waste management BMPs.

APPLICATIONS

The following materials are commonly stored on construction sites:

- Pesticides and herbicides.
 - Fertilizers.
 - Detergents.
 - Petroleum products such as fuel, oil, and grease.
 - Other hazardous chemicals such as acids, lime, glues, paints, solvents, and curing compounds.
- Storage of these materials on-site can pose the following risks:
- Storm water contamination.
 - Injury to workers or visitors.
 - Groundwater contamination.
 - Soil contamination.

DESIGN CRITERIA

- Designate an area of the construction site for material delivery and storage.
 - Place near the construction entrance, away from waterways
 - Avoid transport near drainage paths or waterways
 - Surround with earth berms

Targeted Constituents
☐ Sediment
☐ Nutrients
☐ Toxic Materials
☒ Oil & Grease
☐ Floatable Materials
☒ Other Construction Wastes

Implementation Requirements
☒ Capital Costs
☐ Maintenance
☒ Training
☐ Suitability for Slopes >5%

Legend
☒ Significant Impact
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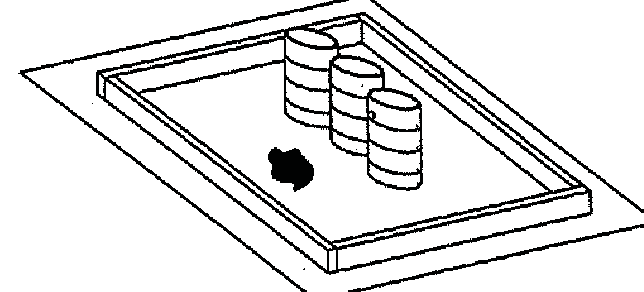
BMP

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City of Baton Rouge
Parish of
East Baton Rouge

Department of
Public Works

Spill Prevention And Control



Applications
Perimeter Control
Slope Protection
Sediment Trapping
Channel Protection
Temporary Stabilization
Permanent Stabilization
Waste Management
Housekeeping Practices

DESCRIPTION

Prevent or reduce the discharge of pollutants to storm water from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees.

This best management practice covers only spill prevention and control. However, Material Delivery and Storage and Material Use, also contain useful information, particularly on spill prevention. For information on wastes, see the waste management BMPs.

APPLICATIONS

The following steps will help reduce the storm water impacts of leaks and spills:

General Measures

- Hazardous materials and wastes should be stored in covered containers and protected from vandalism.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- Train employees in spill prevention and cleanup.

Cleanup

- Clean up leaks and spills immediately.
- On paved surfaces, clean up spills with as little water as possible. Use a rag for small spills, mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to either a certified laundry (rags) or disposed of as hazardous waste.
- Never down or bury dry materials spills. Sweep up or excavate the material and dispose of properly. See the waste management BMPs

Targeted Constituents
☐ Sediment
☐ Nutrients
☐ Toxic Materials
☒ Oil & Grease
☐ Floatable Materials
☒ Other Construction Wastes

Implementation Requirements
☐ Capital Costs
☐ Maintenance
☒ Training
☐ Suitability for Slopes >5%

Legend
☒ Significant Impact
☐ Medium Impact
☐ Low Impact
☐ Unknown or Questionable Impact

BMP

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City of Baton Rouge
Parish of
East Baton Rouge

Department of
Public Works

Dewatering Operations

- Contaminated water can be expensive to treat and/or dispose of properly. However, addressing the problem before construction is much less expensive than after the structures are in place.

LIMITATIONS

The presence of contaminated water may indicate contaminated soil as well. If contaminated water is discovered or suspected, the CONTRACTOR shall stop dewatering and immediately notify the PROGRAM MANAGER.

MAINTENANCE REQUIREMENTS

Maintain sediment controls and filters in good working order.

Inspect excavated areas daily for signs of contaminated water as evidenced by discoloration, oily sheen, or odors.

BMP

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Department of
Public Works

Material Delivery And Storage

- Storage of reactive, ignitable, or flammable liquids must comply with the local fire codes and BTR Airport Rescue and Fire Fighting (ARFF) regulations. Contact ARFF, Captain Milton Thomas (504-355-2068), to review site materials, quantities, and proposed storage area to determine specific requirements. See the Flammable and Combustible Liquid Code NFPA30.
- Keep an accurate, up-to-date inventory in your SWPPP of the materials delivered and stored on-site.
- Keep your inventory down. Store only the amount you need, for only as long as you need it.
- Store as few hazardous materials on-site as possible.
- Handle hazardous materials as infrequently as possible.
- Designate a secure material storage area away from drainage courses and near the site entrance.
- Whenever possible, store materials in a covered area with secondary containment such as an earthen dike, horse trough, or even kid's wading pool for non-reactive materials such as detergents, oil, grease and paints. Small amounts of material may be secondarily contained in "busboy" trays or concrete mixing trays.
- Do not store chemicals, drums, or bagged materials directly on the ground. Place these items in secondary containment.
- If drums must be kept uncovered, store them at a slight angle to reduce ponding or rainwater on the lids and to reduce corrosion.
- Try to keep chemicals in their original containers, and keep them well labeled.
- Train employees and subcontractors.
- Employees trained in emergency spill cleanup procedures should be present when dangerous materials or liquid chemicals are unloaded.

LIMITATIONS

Storage sheds often must meet building and fire code requirements.

MAINTENANCE REQUIREMENTS

Keep the designated storage area clean and well organized. Conduct routine weekly inspections and check for external corrosion of material containers. Keep an ample supply of spill cleanup materials near the storage area.

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Department of
Public Works

Spill Prevention And Control

Reporting

- Immediately report spills to the BTR Airport Rescue & Fire Fighting Unit (504-355-2068). Federal regulations require that any oil spill into a water body or onto an adjoining shoreline be reported to the National Response Center (NRC) at 800-424-6802 (24 hour).

Vehicle and Equipment Maintenance

- If maintenance must occur on-site, use a designated area, located away from drainage courses, prevent the runoff of storm water and the runoff of spills.
- Regularly inspect on-site vehicles and equipment for leaks, and repair immediately.
- Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment on-site.
- Always use secondary containment, such as a drain pan or deep cloth, to catch spills or leaks when removing or changing fluids.
- Place drip pans or absorbent materials under equipment when not in use.
- Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- Oil filters disposed of in trash cans or dumpsters can leak oil and contaminate storm water. Place the oil filter in a funnel over a water oil recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask your oil supplier or recycler about recycling oil filters.
- Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put in into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

- If fueling must occur on-site, use designated areas, located away from drainage courses, to prevent the runoff of storm water and the runoff of spills.
- Discourage "topping-off" of fuel tanks.
- Always use secondary containment, such as a drain pan, when fueling to catch spills/leaks.

LIMITATIONS

If necessary, use a private spill cleanup company.

MAINTENANCE REQUIREMENTS

Keep ample supplies of spill control and cleanup materials on-site, near storage, unloading, and maintenance areas.

Update your spill cleanup materials as changes occur in the types of chemicals on-site.

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Department of
Public Works

PROJECT NO.

SHEET

STANDARD PLAN NO. 903-01
DATED FEBRUARY 25, 2008
SHEET NO. 5 OF 11

STORM WATER POLLUTION
PREVENTION PLAN
BEST MANAGEMENT PRACTICES

ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE
DESIGNED G. CHENG
DRAWN G. VANNICE
CHECKED G. CHENG
APPROVED T. STEPHENS

903-01