4L Sample Corporation Yard SWPPP

D1.1 Facility

Maintenance Yard #3
1234 Facilities Way
XYZ, California 99999

Facility Owner: **City of XYZ**

Date Prepared: **June 18, 1997**
Prepared By: **C. Lin**

Updated:

D1.2 Objectives

The municipal stormwater permit for discharges in the County of Los Angeles requires those Permittees who own and operate facilities where vehicle maintenance and/or material storage activities occur, as defined in Section IV.3.a of the Permit, to implement a pollution prevention plan. The purpose of the regulations is to protect water quality by reducing the amount of pollutants that could potentially reach the storm drainage system and receiving waters.

The minimum objectives of the Vehicle Maintenance/Material Storage Facilities Management program are to:

- Identify and evaluate sources of pollutants from public vehicle maintenance/material storage facilities that may affect the quality of stormwater discharges from the facility.
- Identify and implement site-specific best management practices (BMPs) to reduce or prevent pollutants in stormwater discharges.

A copy of this plan should be kept at the facility. It should be reviewed periodically to assure all information and measures are current and accurate and should be updated as conditions change.

D1.3 Planning and Organization

D1.3.1 Pollution Prevention Team

Name	Function
C. Lin Public Works, Streets & Roads Division (999) 555-1212	Program Coordinator / Pollution Prevention Plan Development
A. Martinez Maintenance Staff (999) 555-1222	Pollution Prevention Plan Implementation
D. Jones Maintenance Staff (999) 555-1232	Pollution Prevention Plan Implementation

D.1.2 Site Map

Figure 1 is a detailed site map of the Maintenance Yard #3 facility.

Site Map - Maintenance Yard #3

Area = 4.5 acres
95% impervious (paved/covered)

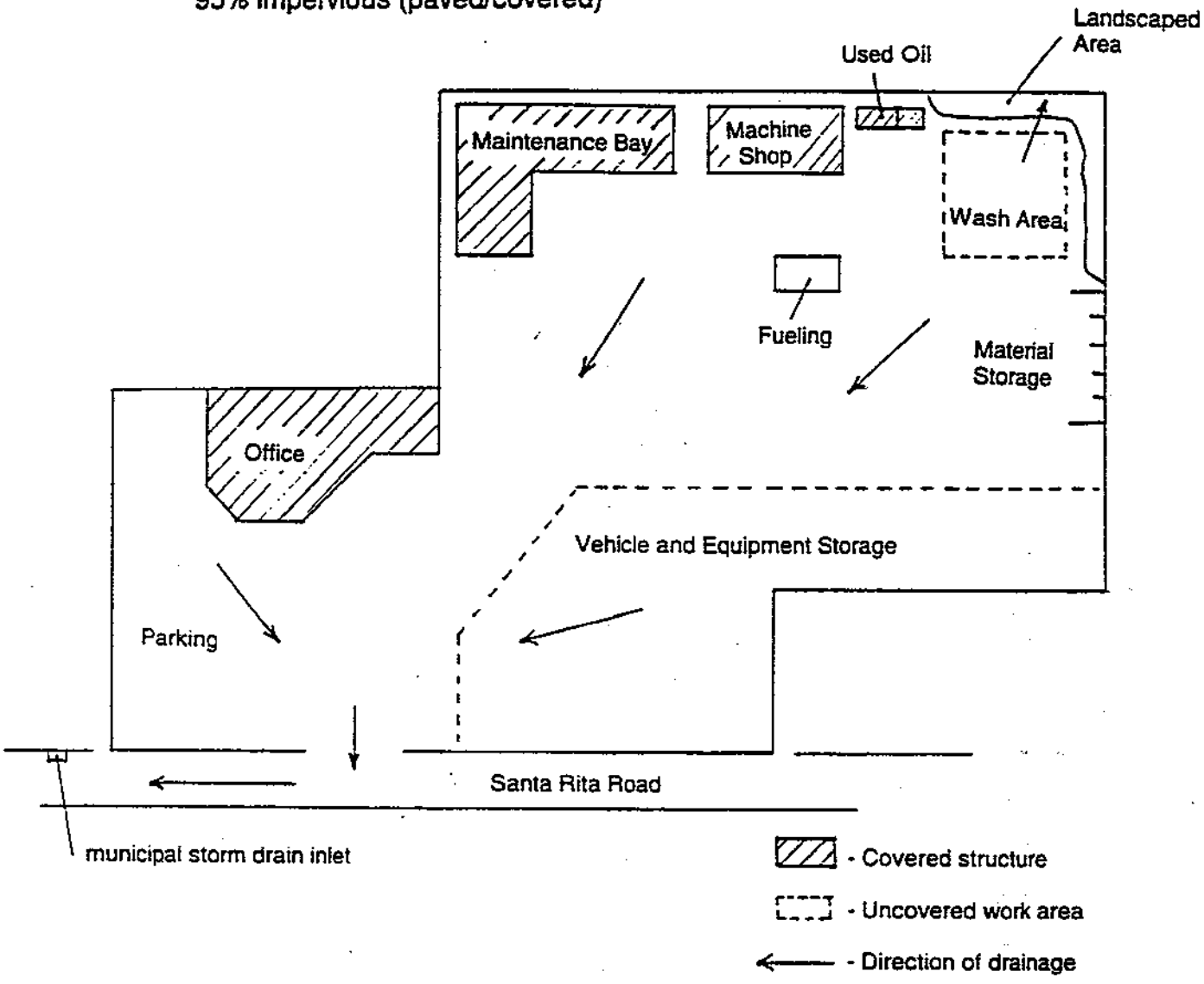

Figure 1
Site Map

D.1.3 List of Significant Materials

Table 1 describes materials that are handled and stored at the Maintenance Yard #3 facility:

Table 1: Significant Materials		
Material	***Handling and Storage Location***	***Typical Quantity/ Frequency***
Gasoline	Center of yard at fueling area	250 gal/day
Diesel fuel	Center of yard at fueling area	200 gal/day
Motor oil	North section of yard in Maintenance Bay	90 gal/wk
Used motor oil	North section of yard in Used Oil Storage Area	30 gal/wk
Lubricants	North section of yard in Maintenance Bay	15 gal/mo
Brake fluid	North section of yard in Maintenance Bay	40 gal/wk
Hydraulic fluid	North section of yard in Maintenance Bay	5 gal/day
Adhesives and sealants	North section of yard in Material Storage Area	10 gal/mo
Antifreeze	North section of yard in Maintenance Bay	30 gal/day
Used Antifreeze	North section of yard in the Used Antifreeze Storage Area	10 gal/day
Solvents	North section of yard in Chemical Storage Area	50 lb/wk
Detergents	North section of yard in Chemical Storage Area	40 lb/wk
Paint	North section of yard in Chemical Storage Area	20 gal/mo
Concrete	East section of yard in Raw Materials Area	1 ton/mo
Gravel	East section of yard in Raw Materials Area	200 lb/wk
Sand	East section of yard in Raw Materials Area	250 lb/wk
Aggregate	East section of yard in Raw Materials Area	100 lb/wk
Pesticides and herbicides	North section of yard in Chemical Storage Area	85 gal/mo
Fertilizers	North section of yard in Chemical Storage Area	100 lb/wk
Soil Amendments	North section of yard in Chemical Storage Area	50 lb/wk

D.1.4 Description of Potential Pollutant Sources

Table 2 describes potential pollutant sources at the Maintenance Yard #3 facility:

Table 2: Potential Pollutant Sources		
Area / Activity	***Pollutant Source***	***Pollutant***
Vehicle and Equipment Fueling performed in the center of the yard at the fueling area; containing both unleaded and diesel fuel for smaller vehicles and large equipment. Both pumps in the fueling area are covered by a raised roof.	Spills caused by topping off fuel tanks	gasoline
	Spills and leaks during deliveries	fuel, oil
	Hosing or washing down fuel area.	fuel, oil
	Rainfall running onto and off of fueling area	fuel, oil
Vehicle and Equipment Maintenance performed at the Maintenance Bay Building in the northwest section of the yard. Activities include fluid changes, vehicle repairs, equipment repairs, and other necessary maintenance.	Vehicle fluid spills or leaks	transmission fluids, luring materials, radiator fluids, etc.
	Container spills or leaks	solvents, degreasers, other cleansers
Vehicle and Equipment Washing performed in the northeast section of the yard. Washing Area is uncovered and not bermed.	Washing particulates and debris off vehicles and equipment	sediment, metals, toxic materials, vehicle fluids
Material, Chemical, Vehicle and Equipment Storage located at the north and east sections of the yard. All areas are covered. See Table 1 for yard materials stored.	Container spills or leaks	antifreeze, oil, pesticides, herbicides, solvents, etc.
	Vehicle and equipment leaks	gasoline, oil

D.1.5 Assessment of Potential Pollutant Sources

Vehicle and Equipment Fueling is a potential source of stormwater pollution at the Maintenance Yard #3 facility. Stormwater runon has the potential to wash away any spills or leaked fluids located at the fueling area and subsequently drain onto the street and into the storm drain. Pollutants located at the fueling area include oil and gasoline (unleaded and diesel). With the washing area currently northeast and upgrade of the fueling area, pollutants may be carried via wash water flows to the storm drain in a non-stormwater discharge.

Vehicle and Equipment Maintenance is a minimal potential source of stormwater pollution. Vehicle and equipment fluids are handled and changed in the Maintenance Bay and may eventually flow into the storm drain only if staff cleans the bay area with the use of water hose. Maintenance pollutants include transmission and radiator fluids, solvents, degreasers, as well as gasoline.

Vehicle and Equipment Washing has a high pollutant potential as alluded to above. Without a bermed area or covered structure for this activity, non-stormwater discharges from washing may flow south-southwest, crossing the fueling area, concentrating pollutant flow even more. Pollutants from washing include sediment, metals, toxic materials, and vehicle fluids such as oil and gasoline.

Material, Chemical, Vehicle and Equipment Storage also has a potential for stormwater pollution. Particularly, vehicles and equipment, stored outside and uncovered, are susceptible to leaking. Rainfall at the facility has the potential to wash leaked fluids into the storm drain system. Material and chemical storage at the facility are covered and carefully protected, minimizing the potential for any stormwater pollution.

D1.6 Stormwater Best Management Practices

Table 3 describes applicable best management practices for the Maintenance Yard #3 facility:

Table 3: Applicable Best Management Practices

Area / Activity	*Pollutant Source*	*Pollutant*	*Best Management Practice*
Vehicle and Equipment Fueling	Spills caused by topping off fuel tanks	gasoline	▪ Train employees in proper fueling and cleanup procedures ▪ Discourage "topping off" of fuel tanks ▪ Install "shut-off" valves on nozzles ▪ Use adsorbent materials on spills as opposed to hosing down ▪ Install covered spill kits next to fueling area
	Spills and leaks during deliveries	fuel, oil	
	Hosing or washing down fuel area.	fuel, oil	
	Rainfall running onto and off of fueling area	fuel, oil	
Vehicle and Equipment Maintenance	Vehicle fluid spills or leaks	transmission fluids, luring materials, radiator fluids, etc.	▪ Train employees in proper cleanup procedures of spills and leaks ▪ Keep equipment clean, disallowing excessive grease/oil buildup ▪ Use drip pans for any leaking vehicle/equipment ▪ Complete all maintenance in proper location (covered) ▪ Sweep up daily ▪ Install spill kits in Maintenance Bay
	Container spills or leaks	solvents, degreasers, other cleansers	
Vehicle and Equipment Washing	Washing vehicle particulates and debris off	sediment, metals, toxic materials, vehicle fluids	▪ Wash vehicles and equipment at an off-site commercial washing location whenever possible ▪ If on-site, direct wash water towards surrounding, existing vegetation ▪ Evaluate the feasibility of constructing a bermed or covered wash area draining to the sanitary sewer
	Washing equipment particulates and debris off	sediment, metals, toxic materials, vehicle fluids	
Material, Chemical, Vehicle and Equipment Storage	Container spills or leaks	antifreeze, oil, pesticides, herbicides, solvents, etc.	▪ Store materials in enclosed or covered areas
	Vehicle and equipment leaks	gasoline, oil	▪ Use drip pans underneath leaking vehicles and equipment