* 1. BMP C123: Plastic Covering

# Purpose

Plastic covering provides immediate, short-term erosion protection to slopes and disturbed areas.

# Conditions of Use

* + - * Plastic covering may be used on disturbed areas that require cover measures for less than 30 days, except as stated below.
			* Plastic is particularly useful for protecting cut and fill slopes and stockpiles.
			* The relatively rapid breakdown of most polyethylene sheeting makes it unsuitable for long-term (greater than six months) applications.
			* Due to rapid runoff caused by plastic covering, this method shall not be used upslope of areas that might be adversely impacted by concentrated runoff. Such areas include steep and/or unstable slopes.
			* Whenever plastic is used to protect slopes, water collection measures must be installed at the base of the slope. These measures include plastic-covered berms, channels, and pipes used to convey clean rainwater away from bare soil and disturbed areas. At no time is clean runoff from a plastic covered slope to be mixed with dirty runoff from a project.
			* Other uses for plastic include:
				+ Temporary ditch liner;
				+ Pond liner in temporary sediment pond;
				+ Liner for bermed temporary fuel storage area if plastic is not reactive to the type of fuel being stored;
				+ Emergency slope protection during heavy rains; and
				+ Temporary conveyance used to direct stormwater and surface water.

# Design and Installation Specifications

Plastic slope cover must be installed as follows:

* + - * Run plastic up and down slope, not across slope.
			* Plastic may be installed perpendicular to a slope if the slope length is less than 10 feet.
			* Minimum of 8-inch overlap at seams.
			* On long or wide slopes, or slopes subject to wind, all seams should be taped.
			* Place plastic into a small (12-inch wide by 6-inch deep) slot trench at the top of the slope and backfill with soil to keep water from flowing underneath.
			* Place sand filled burlap or geotextile bags every 3 to 6 feet along seams and pound a wooden stake through each to hold them in place. Alternative options for holding plastic in place exist and may be considered with COT approval.
			* Inspect plastic for rips, tears, and open seams regularly and repair immediately. This prevents high velocity runoff from contacting bare soil, which causes extreme erosion;
			* Plastic sheeting shall have a minimum thickness of 6 mil.
			* If erosion at the toe of a slope is likely, a gravel berm, riprap, or other suitable protection shall be installed at the toe of the slope in order to reduce the velocity of runoff.

# Maintenance Standards

* + - * Torn sheets must be replaced and open seams repaired.
			* If the plastic begins to deteriorate due to ultraviolet radiation, it must be completely removed and replaced.
			* When the plastic is no longer needed, it shall be completely removed.
			* Properly dispose of products used to weigh down covering.