

APPENDIX K DART SWMP CHECKLIST

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DART SWMP CHECKLIST

Project Address: _____ Project Type: _____
MST _____ PRT or DART: _____
Date: _____ Case Planner: _____
Project Area Acreage: _____ Acres Disturbed: _____ Slope %: _____ Adjacent to Creek Y/N: _____

The following design standards and best management practices (BMP) for storm water management are required under National Pollution Discharge Elimination System (NPDES) provisions (State Regional Water Quality Control Board Phase II General Permit for the City). These measures are included in the City Storm Water Management Plan (SWMP) adopted to implement the NPDES requirements through the City development and redevelopment review and permitting process. The City is required to document to the Regional Board yearly how these measures have been implemented.

As part of a pre-application or application review process for a project discretionary permit by the City, DART members review for project design standards and other BMPs that can feasibly be taken to reduce storm water pollution to the maximum extent practicable.

Identify whether measures on the checklist are applicable, and whether they are applied through a project design revision prior to permit approval, and/or a condition of project approval. If the measure is not feasible, indicate why not.

1.0 CONSTRUCTION PHASE BEST MANAGEMENT PRACTICES

1.1 Erosion and Sedimentation Control (*Building and Safety*)

- Not applicable. Project does not involve ground disturbance.

- Apply Standard Erosion Control Measures as condition (where disturbed soil <1 acre, slope <15%, property not adjacent to creek).

- Detailed Erosion Control Plan required (where disturbed soil ≥ 1 acre, slope > 15%, property adjacent to creek):
 - ___ Detailed Plan required as part of DART application. Apply condition requiring plan implementation; or
 - ___ Apply condition requiring Detailed Plan submittal and approval prior to Building Permit, and plan implementation.

2.0 POST-CONSTRUCTION BEST MANAGEMENT PRACTICES

2.1 Peak Storm Water Run-Off Discharge Rates (*Public Works*)

- Not applicable. Project involves no/minimal change in permeable surface or peak storm water run-off discharge rate. No BMPs required.

- Drainage calculations are required as part of DART application (using County of Santa Barbara hydrograph data and Manning equation). ___ Drainage calculations are adequate.
- Project design would not increase peak 25-year storm water run-off and would reduce peak storm water run-off discharge rate to the maximum extent practicable, through:
 - ___ Any increase in run-off will be retained on-site and filtered using structural BMPs such as detention basins, bioswales (vegetated filters), and/or mechanical BMPs such as manufactured filters.
BMPs _____
 - ___ Increase in water will be retained with underground tanks.
- BMPs will be applied as follows:
 - ___ Project design as proposed (with condition of approval requiring project implementation as proposed, and ongoing maintenance of BMPs if applicable).
 - ___ Revised project design submitted as part of the DART process (and application of condition of approval requiring project implementation as revised, and ongoing maintenance of BMPs).

- Application of a condition of approval requiring feasible project design changes and/or other BMPs, and ongoing maintenance of BMPs.

2.2 Structural and Treatment Control BMPs (*Public Works, Creeks*)

- Not applicable.

- Long-term volumetric treatment control BMP will be incorporated into the project development (design criterion is a 1" storm).

- Long-term flow-based treatment control BMP will be applied (design criterion is .25" for four hours).

- BMPs will be applied as follows:
 - Project design as proposed (with condition of approval requiring project implementation as proposed and ongoing maintenance of BMPs if applicable).
 - Revised project design submitted as part of the DART process (and application of condition of approval requiring project implementation as revised, and ongoing maintenance of BMPs).
 - Application of a condition of approval requiring feasible project design changes and/or other BMPs, and ongoing maintenance of BMPs.

2.3 Minimization of Storm Water Pollutants of Concern (*Creeks, Public Works*)

- Not applicable
- General pollutants/ small projects: Passive, low maintenance BMPs will be applied through minimizing hardscape; vegetative swales, use of permeable paving; and/or detention basin.

- Automotive pollutants/ oil, grease, metals: The following BMPs will be applied for projects with 10 or more parking spaces: Runoff from entrance drive for covered parking will be treated by collecting water in a trench drain and filtering before discharge. Basement parking garages will provide treatment of any storm water discharged from basement garage to storm drain. Runoff will be discharged to a vegetated swale or constructed sand filter, or through a manufactured BMP (drain filter or wet-sump filter).

- Erosion and Sedimentation/ suspended solids: Projects in hillsides, near creeks, or involving substantial earthwork: BMPs applied for long-term post-construction slope stability and erosion/sedimentation control, such as site layout to avoid $\geq 15\%$ slopes, adequate setbacks from creeks.

- BMPs will be applied as follows:
 - Project design as proposed (with condition of approval requiring project implementation as proposed and ongoing maintenance of BMPs if applicable).
 - Revised project design submitted as part of the DART application process (and condition of approval requiring project implementation as revised, and ongoing maintenance of BMPs).
 - Condition of approval requiring feasible project design changes and/or other BMPs, and ongoing maintenance of BMPs.

2.4 Natural Area Conservation BMPs (*Planning*)

- Not applicable.

- Development is clustered leaving remaining land in natural condition.

- Grading and clearing of native vegetation is limited to amount needed for lots, access, and fire protection.

- Trees and vegetation are maximized to the extent feasible, and use of drought-tolerant plants is promoted.

- Natural vegetation is promoted through use of parking lot islands and other landscaped areas.

- Riparian areas and wetlands are preserved.
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- Natural area design standards will be incorporated to the extent applicable and feasible, consistent with City policies, as follows:

- Project design as proposed (with condition of approval requiring project implementation as proposed, and ongoing maintenance of BMPs if applicable).

- Revised project design submitted as part of the DART process (and application of condition of approval requiring project implementation as revised, and ongoing maintenance of BMPs).

- Application of a condition of approval requiring feasible project design changes and/or other BMPs, and ongoing maintenance of BMPs.

2.5 Protection of Slopes and Channels (*Planning, Building, Public Works, Creeks*)

- Not applicable. Project is not adjacent to creek, and does not include substantial slopes.

- The following additional information has been required:

- Existing site conditions: geomorphic, hydraulic, biological, geotechnical; top-of-bank determination.

- Proposed project information and plans, potential effects on slopes and channels, and plans/measures to protect slopes/channels (preliminary grading plan; preliminary drainage plan; slope stability, permanent erosion control, vegetation management, preliminary creek restoration and enhancement plan, including protection of biological values such as shade provisions, water temperature maintenance, nutrient filtering, wildlife movement corridors; fish movement; wildlife habitat protection.)

- Runoff will be conveyed safely from the toes of slopes and disturbed slopes will be stabilized.
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- Natural drainage channels will be used to the maximum extent practicable.
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- Permanent channel crossings will be stabilized.
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- Slopes will be vegetated with appropriate native or drought-tolerant vegetation.
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- Energy dissipaters, such as riprap, will be installed at the outlets of new storm drains, culverts, conduits, or channels that enter unlined channels in accordance with applicable specifications to minimize erosion with the approval of all agencies with jurisdiction.
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- The project will incorporate slope and/or channel protection design standards to the extent applicable and feasible, consistent with applicable City policies, as follows:

- Project design as proposed (with condition of approval requiring project implementation as proposed, and ongoing maintenance of BMPs if applicable); or

- Revised project design submitted as part of the DART process (and application of condition of approval requiring project implementation as revised, and ongoing maintenance of BMPs); or

- Condition of approval requiring feasible project design changes and/or other BMPs, and ongoing maintenance of BMPs.

2.6 Storm Drain Stenciling and Signage (*Public Works, Building*)

- Not applicable. No storm drain inlets.

- Condition of approval will be applied that public and private storm drain inlets and catch basins within the project area must be stenciled with language and/or graphic icons prohibiting dumping of improper materials directly into the storm water conveyance system. Signs prohibiting illegal dumping must be posted at public access points along channels and creeks within the project area. Legibility of stenciling and signs must be maintained.

2.7 Outdoor Material Storage Design *(Planning, Building)*

- Not applicable. No outdoor material storage area.
 - Materials with the potential to pollute storm water will be placed within an enclosure such as cabinet, shed or similar structure that prevents contact with runoff or spillage to the storm water conveyance system, or will be protected by secondary containment structures such as berms, dikes, or curbs. The storage area will be paved and sufficiently impervious to contain leaks and spills. The storage will have a roof or awning to minimize collection of storm water within the secondary containment.
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- The project will incorporate BMPs as follows:
 - Project design as proposed incorporates these measures.
 - Revised project design submitted as part of DART review process incorporates these measures.
 - These measures are feasible and will be applied as a condition of permit approval.

2.8 Trash Storage Area Design *(Public Works)*

- Not applicable. No trash storage area.
 - Trash containers will have drainage from adjoining roofs and pavement diverted around the areas; and trash container areas will be screened or walled to prevent off-site transport of trash. Individual single family residences may be exempted if determined by City to be infeasible.)
 - The BMPs will be incorporated as follows:
 - Project design as proposed.
 - Revised project design submitted as part of DART review process.
 - These measures are feasible and will be applied as a condition of permit approval.
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2.9 Ongoing BMP Maintenance *(Planning, Building, Public Works, Creeks)*

- Not applicable. No BMPs are required.
 - Condition will be applied to establish BMP maintenance agreement providing owner ongoing maintenance and yearly inspection.
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2.10 Design Standards for Specified Individual Project Categories *(Planning, Building, Public Works, Creeks)*; refer to the Design Standards of Attachment 4 of the State General Permit (WQO 2003-0005-DWQ); per City SWMP, all discretionary projects, regardless of size, shall comply with the Design Standards in Attachment 4.

- Not applicable.
 - Commercial Projects: Proper design of loading/unloading dock areas; repair/maintenance bays; vehicle wash areas to protect water quality.
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- Restaurants: Proper design of equipment/ accessory wash areas to protect water quality.
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- Retail Gasoline Outlets: Proper design of fueling areas to protect water quality.
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- Automotive Repair Shops: Proper design of fueling areas; repair/maintenance bays; vehicle/equipment wash areas; and loading/unloading dock areas to protect water quality.
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- Parking Lots: Proper design of parking areas to protect water quality; and operational provisions to limit oil contamination.
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- BMPs will be incorporated as follows:
 - Project design as proposed.
 - Revised project design submitted as part of DART review process.
 - These measures are feasible and will be applied as a condition of permit approval.