

ATTACHMENT B 1

WATER QUALITY TECHNICAL REPORT GUIDELINES

Purpose

To describe the permanent storm water Best Management Practices (BMPs) that will be incorporated in the project to mitigate the impacts of urban runoff due to the development, the following Specific Information shall be included in Water Quality Technical Report (WQTR) and shown in the appropriate plans as applicable:

- Project Location, Description, and Physical Features
- Surrounding Land Use and proposed project land use
- Watershed Contribution and potential impacts to State Impaired Water bodies "303(d) list" which are downstream of proposed project
- Beneficial Uses of Surface Waters and Ground Water surrounding the project
- Characterization of project runoff both pre-project and post-project, Conditions of Concern, locations of Storm Water Outfall(s), Tributary Drainage Area to Outfall(s), changes in downstream erosion potential, and Site Hydrology
- Water Quality Pollutants of Concern, Treatment Volume Based on Water Quality Design Storm, Site Plans and Adjacent Land Use, and Soil Characteristics.
- Mitigation Measures to protect water quality, Pollution Prevention BMPs (MEP Based), Site Design BMPs, Source Control BMPs, Natural BMPs, and Structural Treatment BMPs.
- Mitigation Measures to prevent increases in downstream erosion to MEP, Site Design BMPs, Source Control BMPs, Natural BMPs, and Structural Treatment BMPs,
- Any infiltration BMPs proposed for use on project
- Agreements, easements, licenses relating to proposed BMP construction, location, maintenance, or changes in drainage character.
- Project Map with Watersheds and Surface Water Bodies Within project Area
- Information relating to threat to water quality including (1) soil erosion potential; (2) site slope; (3) project size and type; (4) sensitivity of receiving water bodies; (5) proximity to receiving water bodies; and (6) non-storm water discharges.

Minimum Requirements

_ Drainage and water quality technical studies shall be prepared and signed by registered Civil Engineer

Organization & Content

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Vicinity Map

Project Description

_ Narrative of project activities

Site Map

_ Entire property included on one map (use key map if multi-sheets)

_ Drainage areas and direction of flow (pre and post development flow figures at entry and discharge points)

_ Private storm drain system(s)

_ Nearby water bodies and municipal storm drain inlets

_ Location of storm water conveyance systems (ditches, inlets, storm drains, etc.)

_ Location of existing and proposed storm water controls

_ Location of “impervious” areas- paved areas, buildings, covered areas

_ Locations where materials would be directly exposed to storm water

_ Location of building and activity areas (e.g. fueling islands, garages, waste container area, wash racks, hazardous material storage areas, etc.)

_ Areas of potential soil erosion (including areas downstream of project)

_ Sensitive areas near the development

Pollutants and Conditions of Concern

_ Project located in which Watershed

_ Impaired water bodies downstream of the project and impairment

_ Impacts to hydrologic regime

_ Pollutants based upon land use

Types of BMPs:

Site Design BMPs

_ Reduce impervious surfaces

_ Conserve natural Areas

_ Minimize directly connected areas

_ Protect slopes and channels

Source Control BMPs

_ Inlet stenciling and signage

_ Materials Storage

_ Trash storage

_ Efficient irrigation

_ Other controls (as applicable)

Structural Treatment BMPs

- _ Basis for selection, (include targeted pollutants, justification, and alternative BMPs analysis)
- _ Design criteria and Numeric Sizing criteria (include calculations)
- _ Pollutant removal information (other than vendor specifications)
- _ Literature References

Maintenance (i.e. identify the responsible parties who will implement the Best Management Practices)

- _ Maintenance schedule
- _ Maintenance Costs (including funding mechanism)
- _ Qualifications of maintenance personnel

Geotechnical/Soils Report

The following topics shall be included in the geotechnical/soils investigations of all new development and redevelopment in the City of Chula Vista, and shall be addressed in the study reports:

1. Soil erosion potential before and after grading, and recommendations for minimizing erosion.
2. Potential for infiltration permanent Best Management Practices (BMPs) in view of soil permeability and depth to water table.
3. Potential for temporary or permanent groundwater extraction, and if coverage under the National Pollutant Discharge Elimination System (NPDES) Permit No. CAG919001 may be required.