

APPENDIX E

PUBLIC CONSTRUCTION ACTIVITIES MANAGEMENT GUIDANCE

E.1 CONSTRUCTION ACTIVITY MANAGEMENT REQUIREMENTS

E.1.1 Construction Control Measures

Guidance for preparation of a Local Storm Water Pollution Prevention Plan (Local SWPPP) and Wet Weather Erosion Control Plan (WWECP) for Construction Priority Projects is provided in Attachment E1. The General Construction Permit can be viewed or downloaded from the State Water Resources Control Board's web page: www.swrcb.ca.gov/stormwtr/construction.htm.¹ BMP selection guidance is provided in Attachment E2.

E.1.2 Site Inspection

A construction site inspection checklist that can be used for contractor self-inspections for Construction Priority Projects and a Permittee construction site inspection checklist are provided in Attachments E3 and E4, respectively.

E.1.3 BMP Checklist

A BMP checklist is provided as Attachment E5. The categories of BMPs described in Sections E.2.2.1 through E.2.2.5 must be included.

E.1.3.1 Erosion Control (Soil Stabilization) Practices

Preserve existing vegetation where feasible and revegetate disturbed areas as soon as feasible after grading or construction. At a minimum, one or more erosion control practices must be implemented on all disturbed areas during the winter season.

E.1.3.2 Sediment Control Practices

Use control practices that, to the extent feasible, will prevent a net increase in sediment load in stormwater discharges. At a minimum, one or more sediment controls must be implemented for all significant sideslope and downslope boundaries of the construction site and at all internal storm drain inlets.

¹ A copy of the General Construction Permit can also be obtained from the Los Angeles Regional Board at 320 W. 4th Street, Suite 200, Los Angeles, CA 90013; telephone 213.576.7700.

Appendix E

Public Construction Activities Management Guidance

E.1.3.3 Tracking Control Practices

Use tracking control practices to reduce tracking of sediment onto public and private roads, and inspect and clean roads as necessary.

E.1.3.4 Wind Erosion Control Practices

Use control practices to reduce wind erosion. Practices are generally similar to those used for erosion control.

E.1.3.5 Non-Stormwater and Materials and Waste Management Practices

Use applicable control practices based on site activities year round to eliminate or reduce the discharge of materials other than stormwater.

E.1.4 Verification of Construction Activity BMPs

The inspection and enforcement procedures described in Section 2.2.2.3 to 2.2.2.5 of this document may be followed to verify that construction activity BMPs are properly implemented, maintained and effective.

ATTACHMENT E1

**GUIDANCE FOR LOCAL STORM WATER POLLUTION PREVENTION PLAN
AND WET WEATHER EROSION CONTROL PLAN**

Attachment E1
Guidance For Local Storm water Pollution Prevention Plan
And Wet Weather Erosion Control Plan

Section 2.2.2.1.3 of this model stormwater management program provided criteria for identifying Priority Projects: Construction projects are divided into two categories according to the amount of soil disturbance:

1. Construction projects with less than one acre of disturbed soil.
2. Construction projects with one acre and greater of disturbed soil. The category is further subdivided into two subcategories:
 - a. Construction projects between one acre and five acres of soil disturbance.
 - b. Construction projects with five acres and greater of soil disturbance.

Beginning March 10, 2003, the requirements for construction projects with five acres and greater of soil disturbance shall apply to construction projects with one acre and greater of soil disturbance.

Construction Priority Projects require the preparation of a:

- Local Stormwater Pollution Prevention Plan (SWPPP); and a
- Wet Weather Erosion Control Plan (WWECP) if the soil will be disturbed during the rainy season (November 1 to April 15).

The Local SWPPP must be prepared before construction activities begin and must be implemented year-round throughout construction. A WWECP must be prepared prior to each rainy season, and must be implemented throughout that rainy season. This appendix provides guidance for preparing these plans, including sample forms that Permittees may use or provide to the construction contractor.

If a Local SWPPP and WWECP is required, it may be prepared by the owner, the construction contractor or a consultant. Permittees may elect to determine who must prepare the Local SWPPP and WWECP for specific project types. When developing a Local SWPPP or WWECP, the preparer should assess site conditions, identify construction activities with the potential to cause stormwater pollution, and then identify the BMPs that will best suit the construction activities. A well-developed plan will provide sufficient detail to properly implement and maintain the BMPs, yet be sufficiently flexible to allow for minor field modifications without making formal plan amendments.

Attachment E1
Guidance For Local Storm water Pollution Prevention Plan
And Wet Weather Erosion Control Plan

The Local SWPPP and WVECP must include a site map of the project (a copy of the grading or drainage plan may be used) showing:

- The project boundary and/or limits of grading. (Permittees may elect to require site limit maps to extend 50 feet beyond property line and/or grading limits.)
- The footprint of existing facilities and facilities that will be built during construction.
- Specific locations where construction materials, vehicles, and equipment will be stored, handled, used, maintained, and disposed, along with locations of structural measures that will be used to contain these materials on site.
- The existing and final grades of the site, along with any intermediate grades during construction that will significantly affect site drainage patterns.
- The location(s) where runoff from the site may enter storm drain(s), channel(s), and/or receiving water(s).
- Specific locations where erosion and sediment control measures will be installed for each permanent or temporary site drainage pattern that will occur before, during and after construction.

The plan will provide information about the project location, owner, and contractor; and include a brief narrative description on the nature of the construction activity and special site conditions, and a list of BMPs for managing targeted construction activities. The plan will also include a BMP checklist with a discussion of the reasons for selecting or rejecting BMPs such as shown in the attached example.

Suggested formats for a Local SWPPP and WVECP follow.

Attachment E1
Guidance For Local Storm water Pollution Prevention Plan
And Wet Weather Erosion Control Plan

E1.1 LOCAL STORMWATER POLLUTION PREVENTION PLAN

E1.1.1 Project Description and Information

1. The name of the project:

2. The address or location of the project:

3. The building permit number for the project:

4. The grading permit number for the project (if applicable):

5. The owner/developer's name, address, phone number and contact person:

6. Contractor's name, address, phone number and contact person:

7. What are the major features that the project will provide? (e.g., low density residential, commercial development, etc.)

8. What are the estimated construction start and finish dates?

Attachment E1
Guidance For Local Storm water Pollution Prevention Plan
And Wet Weather Erosion Control Plan

Project Start Date: _____

Project Finish Date: _____

9. What are the estimated dates during which soil will be disturbed?

Start Grading: _____

Finish Grading: _____

10. Are there any unique features relating to adjacent water bodies (i.e., in or around a wetland, river, stream, or estuary)?

Attachment E1
Guidance For Local Storm water Pollution Prevention Plan
And Wet Weather Erosion Control Plan

E1.1.2 Best Management Practices

Use the following tables to indicate the BMPs that will be used to control stormwater pollution. Attached additional written documentation if necessary.

E1.1.2.1 General Site Management

BMP Description	Will BMP Be Used?		If Yes, Explain How
	Yes	No	If No, State Reason
Site Planning Considerations			
Scheduling (ESC01)			
Preservation of Existing Vegetation (ESC02)			
Construction Practices			
Dewatering Operations (CA001)			
Paving Operations (CA002)			
Structure Construction & Painting (CA003)			
Dust Control (ESC21)			
Vehicle & Equipment Management			
Vehicle & Equipment Cleaning (CA030)			
Vehicle & Equipment Fueling (CA031)			
Vehicle & Equipment Maintenance (CA032)			
Tracking Control			
Stabilized Construction Entrance (ESC24)			
Contractor Training			
Employee/Subcontractor Training (CA040)			

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And Wet Weather Erosion Control Plan

E1.1.2.2 Construction Materials and Waste Management

BMP Description	Will BMP Be Used?		If Yes, Explain How
	Yes	No	If No, State Reason
Material Management			
Material Delivery and Storage (CA010)			
Material Use (CA011)			
Spill Prevention and Control (CA012)			
Waste Management			
Solid Waste Management (CA020)			
Hazardous Waste Management (CA021)			
Contaminated Soil Management (CA022)			
Concrete Waste Management (CA023)			
Sanitary/Septic Waste Management (CA024)			

E1.1.3 Site Map Checklist

- _____ The project boundary and/or limits of grading. (*Option: 50 feet beyond property line or grading limits*)
- _____ The footprint of existing facilities and facilities that will be built during construction.
- _____ The existing and final grades of the site, along with any intermediate grades during construction that will significantly affect site drainage patterns.
- _____ The location(s) where runoff from the site may enter storm drain(s), channel(s), and/or receiving water(s).
- _____ Specific locations where construction materials, vehicles, and equipment will be stored, handled, used, maintained, and disposed, along with locations of structural measures that will be used to contain these materials on site.

Attachment E1
Guidance For Local Storm water Pollution Prevention Plan
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E1.1.4 Certification

As the project architect/engineer of record, I have reviewed the *Best Management Practices Handbooks, California Storm Water Quality Task Force, Sacramento, CA*. I certify that appropriate BMPs will be implemented to effectively minimize the negative impacts of this project's construction activities on storm water quality. The project owner and contractor are aware that the selected BMPs must be installed, monitored, and maintained to ensure their effectiveness. The BMPs not selected for implementation are redundant or deemed not applicable to the proposed construction activities. If at any time, site conditions and/or the County/City official warrant reevaluation and revisions of the chosen BMPs, the appropriate changes will be made without unnecessary delay. I am aware that failure to properly implement and maintain, while under construction, the BMPs necessary to prevent the discharge of pollutants from this project could result in significant penalties and/or delays.

Signed: _____

Title: _____

Date: _____

As the project owner/owner's agent, I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that submitting false and/or inaccurate information, failing to update the Local SWPPP to reflect current conditions, or failing to properly and/or adequately implement the Local SWPPP may result in revocation of grading and/or other permits or other sanctions provided by law.

Signed: _____

Title: _____

Date: _____

Attachment E1
Guidance For Local Storm water Pollution Prevention Plan
And Wet Weather Erosion Control Plan

E1.2 WET WEATHER EROSION CONTROL PLAN

E1.2.1 Project Description and Information

1. The name of the project:

2. The address or location of the project:

3. The building permit number for the project:

4. The grading permit number for the project (if applicable):

5. The owner/developer's name, address, phone number and contact person:

6. Contractor's name, address, phone number and contact person:

7. What are the major features that the project will provide? (e.g., low density residential, commercial development, etc.)

Attachment E1
Guidance For Local Storm water Pollution Prevention Plan
And Wet Weather Erosion Control Plan

8. What are the estimated construction start and finish dates?

Project Start Date: _____

Project Finish Date: _____

9. What are the estimated dates during which more than 1 acre or 50,000 ft³ of soil will be disturbed?

Start Grading: _____

Finish Grading: _____

10. Are there any unique features relating to adjacent water bodies (i.e., in or around a wetland, river, stream, or estuary)?

Attachment E1
Guidance For Local Storm water Pollution Prevention Plan
And Wet Weather Erosion Control Plan

E1.2.2 Best Management Practices

Use the following checklists to indicate the BMPs that will be used to control wet weather erosion and off site sedimentation. Attach additional written documentation if necessary.

E1.2.2.1 Erosion Control Practices

BMP Description	Will BMP Be Used?		If Yes, Explain How
	Yes	No	If No, State Reason
Site Planning Considerations			
Scheduling (ESC01)			
Preservation of Existing Vegetation (ESC02)			
Vegetative Stabilization			
Seeding & Planting (ESC10)			
Mulching (ESC11)			
Physical Stabilization			
Geotextiles & Mats(ESC20)			
Dust Control (ESC21)			
Temporary Stream Crossing (ESC22)			
Construction Road Stabilization (ESC23)			
Diversion of Runoff			
Earth Dike (ESC30)			
Temporary Drains & Swales (ESC31)			
Slope Drain (ESC32)			
Velocity Reduction			
Outlet Protection (ESC40)			
Check Dams (ESC41)			
Slope Roughening/Terracing (ESC42)			

Attachment E1
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And Wet Weather Erosion Control Plan

E1.2.2.2 Sediment Control Practices

BMP Description	Will BMP Be Used?		If Yes, Explain How
	Yes	No	If No, State Reason
Sediment Control			
Silt Fence (ESC50)			
Straw Bale Barrier (ESC51)			
Sand Bag Barrier (ESC52)			
Brush or Rock Filter (ESC53)			
Storm Drain Inlet Protection (ESC54)			
Sediment Trap (ESC55)			
Sediment Basin (ESC56)			

E1.2.3 Site Map Checklist

- _____ The project boundary and/or limits of grading. (*Option: 50 feet beyond property line or grading limits*)
- _____ The footprint of existing facilities and facilities that will be built during construction.
- _____ The existing and final grades of the site, along with any intermediate grades during construction that will significantly affect site drainage patterns.
- _____ The location(s) where runoff from the site may enter storm drain(s), channel(s), and/or receiving water(s).
- _____ Specific locations where erosion and sediment control measures will be installed for each permanent or temporary site drainage pattern that will occur before, during and after construction.

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And Wet Weather Erosion Control Plan

E1.2.4 Certification

As the project architect/engineer of record, I have reviewed the *Best Management Practices Handbooks, California Storm Water Quality Task Force, Sacramento, CA*. I certify that appropriate BMPs will be implemented to effectively minimize the negative impacts of this project's construction activities on storm water quality. The project owner and contractor are aware that the selected BMPs must be installed, monitored, and maintained to ensure their effectiveness. The BMPs not selected for implementation are redundant or deemed not applicable to the proposed construction activities. If at any time, site conditions and/or the County/City official warrant reevaluation and revisions of the chosen BMPs, the appropriate changes will be made without unnecessary delay. I am aware that failure to properly implement and maintain, while under construction, the BMPs necessary to prevent the discharge of pollutants from this project could result in significant penalties and/or delays.

Signed: _____

Title: _____

Date: _____

As the project owner/owner's agent, I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that submitting false and/or inaccurate information, failing to update the Local SWPPP to reflect current conditions, or failing to properly and/or adequately implement the Local SWPPP may result in revocation of grading and/or other permits or other sanctions provided by law.

Signed: _____

Title: _____

Date: _____

ATTACHMENT E2

BMP SELECTION PROCESS FOR CONSTRUCTION PROJECTS

In planning a construction project, the developer/contractor must answer three key questions with respect to storm water quality control: (1) what kind of water quality controls are needed?; (2) where should the controls be implemented?; and (3) how much control is enough? In order to answer these questions, the developer/contractor should use a documentable, defensible process to identify potential water quality problems, develop design objectives, formulate and evaluate alternatives, select the most appropriate alternatives, and design the plan. A suggested BMP selection process particularly applicable to Construction Projects one acre and greater and projects subject to the California General Permit for Storm Water Discharges Associated with Construction Activity is described herein.

E2.1 DEVELOP GOALS AND OBJECTIVES

Site-specific conditions of Development Construction Projects determine which BMPs are most applicable for a site. The BMPs selected for a site should fulfill the following goals and objectives:

- Be appropriate for the given site constraints
- Have a beneficial or neutral impact on the environment
- Provide moderate to high pollutant source control and/or removal capability
- Meet regulatory requirements
- Minimize changes in hydrological conditions
- Be cost effective.

E2.2 BMP SELECTION CRITERIA

In order to fulfill the above goals and objectives, BMPs should be selected by using appropriate selection criteria that serve to identify the capabilities and limitations of each BMP. Criteria to be considered in screening and selecting BMPs for the construction stage are:

- Site factors (e.g., slope, high water table, soils, potential risks below or downstream of site, etc.)
- Project Characteristics (e.g. type, size, and duration of project)
- Pollutant avoidance (source control) or removal capability (effectiveness)
- Cost of implementation
- Environmental compatibility

These criteria may be given equal weight during the BMP selection process, or they may be weighted differentially, depending on the relative importance of each factor for the particular project.

Several general principals that should be considered in selecting erosion and sediment control BMPs include:

- Prevention of pollutant release is superior to pollutant capture later. Select source control BMPs as a first step.
- Selection of BMPs must depend on site characteristics and the construction plan.
- The proper first step is a site drainage analysis. Determine where runoff will enter, cross and exit the site.
- Divert runoff from exposed areas wherever possible.
- Existing vegetation is the most effective erosion control.
- Limit and phase clearing.
- Incorporate natural drainage features whenever possible, using adequate buffers and protecting areas where flow enters the drainage system.
- Minimize slope length and steepness.
- Keep runoff velocities low.
- Reduce the tracking of sediment off-site.
- Select and install controls that can be maintained.

E2.3 NOMINATE AND EVALUATE ALTERNATIVES

A number of BMPs applicable to Development Construction Projects have been identified in Section 2.4 of this Program. The BMPs were nominated from the *California Storm Water Best Management Practices Handbooks*. Other BMPs from other manuals and sources were also considered.

E2.4 SELECT BEST ALTERNATIVES

Based on the list of recommended BMPs for Development Construction Projects provided in this Model Program, the developer/contractor should use the selection criteria described above to select the best alternatives for the project conditions, characteristics, and concerns. This may be done numerically, by weighting the selection criteria, rating each BMP against each criteria, and summing up a weighted rating for each BMP, which then becomes a relative ranking. Or the

selection process may be done in a more subjective, non-numerical way using experience and professional judgment to select the best alternative BMPs. Either way, the developer/contractor should document the selection process and provide support for the selected system of controls.

E2.5 DESIGN, IMPLEMENT, and MAINTAIN the BMPs

After the appropriate BMPs are selected for a given project, the developer/contractor should document those selected on the standard checklist and show the selected BMPs on the plans, as discussed in Section 3 of this document. It is important that the control measures be properly installed and maintained. Improper installation and poor maintenance are the most common reasons for storm water controls to not function as designed. Therefore, it is incumbent on the designer to provide sufficient information in the project plans and specifications for their proper installation, and to provide adequate guidance on their proper maintenance so that the installation and maintenance procedures may be incorporated into the state SWPPP, Local SWPPP, or WVECP.

ATTACHMENT E3

CONTRACTOR SELF-INSPECTION FORM

E3.1 CONSTRUCTION SITE INSPECTION CHECKLIST

Inspected By: _____

Project: _____

Contractor: _____

Date: _____

Check "Yes" or "No" or "N/A" if not applicable.

YES	NO	N/A	
_____	_____	_____	1. Has there been rain at the site since the last inspection?
_____	_____	_____	2. Are all sediment barriers (e.g., sandbags, straw bales, and silt fences) in place in accordance with the Plan and are they functioning properly?
_____	_____	_____	3. If present, are all exposed slopes protected from erosion through the implementation of acceptable soil stabilization practices?
_____	_____	_____	4. If present, are all sediment traps/basins installed and functioning properly?
_____	_____	_____	5. Are all material handling and storage areas reasonably clean and free of spills, leaks, or other deleterious materials?
_____	_____	_____	6. Are all equipment storage and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious materials?
_____	_____	_____	7. Are all materials and equipment properly covered?
_____	_____	_____	8. Are all external discharge points (i.e., outfalls) reasonably free of any noticeable pollutant discharges?
_____	_____	_____	9. Are all internal discharge points (i.e., storm drain inlets) provided with inlet protection?

Attachment E3 Contractor Self-Inspection Form

Check "Yes" or "No" or "N/A" if not applicable.

YES	NO	N/A	
_____	_____	_____	10. Are all external discharge points reasonably free of any significant erosion or sediment transport?
_____	_____	_____	11. Are all BMPs identified on the Plan installed in the proper locations and according to the specifications for the Plan?
_____	_____	_____	12. Are all structural control practices in good repair and maintained in functional order?
_____	_____	_____	13. Are all on-site traffic routes, parking, and storage of equipment and supplies restricted to areas designated in the Plan for those uses?
_____	_____	_____	14. Are all locations of temporary soil stockpiles or construction materials in approved areas and properly contained?
_____	_____	_____	15. Are all seeded or landscaped areas properly maintained?
_____	_____	_____	16. Are sediment controls in place at discharge points from the site?
_____	_____	_____	17. Are slopes free of significant erosion?
_____	_____	_____	18. Are all points of ingress and egress from the site provided with stabilized construction entrances?
_____	_____	_____	19. Is sediment, debris, or mud being cleaned from public roads at intersections with site access roads?
_____	_____	_____	20. Does the Plan reflect current site conditions?

If you answered "no" to any of the above questions (except Number 1), describe any corrective action(s) that must be taken to remedy the problem and when the corrective action is to be completed:

Checklist Item	Corrective Action(s) Needed	Date to be Completed

ATTACHMENT E4

Permittee Construction Guidelines and Forms

Attachment E4
Permittee Construction Guidelines and Forms

E4.1 CONSTRUCTION SITE INSPECTION CHECKLIST
STORM WATER POLLUTION CONTROL
REQUIREMENTS FOR CONSTRUCTION SITES ONE ACRE AND LESS
IMPLEMENTATION REPORT

Project Name/TR #: _____
 Site Address: _____

 Permit/Contract Number: _____ District Office: _____

CONSTRUCTION SITES ONE ACRE AND LESS - RELATED BMPs		Yes	No	N/A
1.	Attachment A on-site?	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Are eroded sediments and other pollutants retained on site and not transported from the site via sheetflow, swales, area drains, natural drainage, or wind? If No, Explain: _____ _____ _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Are stockpiles of earth and other construction related materials protected from being transported from the site by forces of wind or water? If No, Explain: _____ _____ _____ _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Are fuels, oils, solvents, and other toxic materials stored in accordance with their listings and not contaminating the soil and surface water? If No, Explain: _____ _____ _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Is excess or waste concrete washed into a contained area and not being washed into the public way or any other drainage system? If No, Explain: _____ _____ _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Attachment E4

Permittee Construction Guidelines and Forms

<p>6. Is trash and other construction related solid wastes being deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind? If No, Explain:</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p>7. Are sediments and other materials not being tracked from the site by vehicle traffic? Is the construction site's entrance stabilized to inhibit sediments from being deposited into the public way?</p> <p style="text-align: center;">Are accidental depositions swept up immediately and not washed down by rain or other means? If No, Explain:</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p>8. Are slopes with disturbed soils or denuded of vegetation stabilized to inhibit erosion by wind and water? If No, Explain:</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Inspected by: _____ Date: _____ Phone: _____

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STORM WATER POLLUTION CONTROL
REQUIREMENTS FOR CONSTRUCTION SITES One acre and greater
IMPLEMENTATION REPORT

Project Name / TR #: _____

Site Address: _____

Permit/Contract Number: _____ District Office: _____

- Category: **Medium**
 (1 or more acres, and up to but less than 5 acres of disturbed soil or creating more than 40,000 square feet of impervious area)
- Large**
 (5 acres or more of disturbed soil)

		Yes	No	N/A
1.	Attachment A (Storm Water Pollution Control Requirements for Construction Activities) on-site?	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Attachment B (List of Best Management Practices for Construction Activity specific to site) on-site?	<input type="checkbox"/>	<input type="checkbox"/>	
3.	Attachment C (Certification) on-site?	<input type="checkbox"/>	<input type="checkbox"/>	
4.	Erosion Control Plan on-site?	<input type="checkbox"/>	<input type="checkbox"/>	
5.	Local Storm Water Pollution Prevention Plan (local SWPPP) on-site?*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Attachment D (Owner's NOI/SWPPP Certification Form) on-site?** (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Notice of Intent (NOI) and Storm Water Pollution Prevention Plan (SWPPP) on-site?** (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* For Medium Construction Sites only.

** For Large Construction Sites only.

(1) Effective March 10, 2003, these will apply for all construction sites one acre and greater.

MEDIUM AND LARGE CONSTRUCTION SITE RELATED BMPs (See California Stormwater Best Management Practices Handbook Const. Activities, March 1993 for BMP descriptions)	Legend: ① not installed properly ② installed but not maintained properly ③ installed properly, but ineffective ④ moderately effective ⑤ very effective	Effectiveness Rating
Construction Practices		
8. <input type="checkbox"/> CA001 Dewatering Operations _____		① ② ③ ④ ⑤
9. <input type="checkbox"/> CA002 Paving Operations _____		① ② ③ ④ ⑤
10. <input type="checkbox"/> CA003 Construction and Painting _____		① ② ③ ④ ⑤

Attachment E4

Permittee Construction Guidelines and Forms

Material Management		
11.	<input type="checkbox"/> CA010 Material Delivery and Storage _____	① ② ③ ④ ⑤
12.	<input type="checkbox"/> CA011 Material Use _____	① ② ③ ④ ⑤
13.	<input type="checkbox"/> CA012 Spill Prevention and Control _____	① ② ③ ④ ⑤

CONSTRUCTION RELATED BMPS - CONTINUED		Effectiveness Rating
Waste Management		
14.	<input type="checkbox"/> CA020 Solid Waste Mgt. _____	① ② ③ ④ ⑤
15.	<input type="checkbox"/> CA021 Hazardous Waste Mgt. _____	① ② ③ ④ ⑤
16.	<input type="checkbox"/> CA022 Contaminated Soil Mgt. _____	① ② ③ ④ ⑤
17.	<input type="checkbox"/> CA023 Concrete Waste Mgt. _____	① ② ③ ④ ⑤
18.	<input type="checkbox"/> CA024 Sanitary/Septic Waste Mgt. _____	① ② ③ ④ ⑤
Vehicle and Equipment Management		
19.	<input type="checkbox"/> CA030 Vehicle and Equip. Cleaning _____	① ② ③ ④ ⑤
20.	<input type="checkbox"/> CA031 Vehicle and Equip. Fueling _____	① ② ③ ④ ⑤
21.	<input type="checkbox"/> CA032 Vehicle and Equip. Maintenance _____	① ② ③ ④ ⑤
Vegetation Stabilization		
22.	<input type="checkbox"/> ESC10 Seeding and Planting _____	① ② ③ ④ ⑤
23.	<input type="checkbox"/> ESC11 Mulching _____	① ② ③ ④ ⑤
Physical Stabilization		
24.	<input type="checkbox"/> ESC20 Geotextiles and Mats _____	① ② ③ ④ ⑤
25.	<input type="checkbox"/> ESC21 Dust Control _____	① ② ③ ④ ⑤
26.	<input type="checkbox"/> ESC22 Temp. Stream Crossing _____	① ② ③ ④ ⑤
27.	<input type="checkbox"/> ESC23 Road Stabilization _____	① ② ③ ④ ⑤
28.	<input type="checkbox"/> ESC24 Stabilized Entrance _____	① ② ③ ④ ⑤
Diversion of Runoff		
29.	<input type="checkbox"/> ESC30 Earth Dike _____	① ② ③ ④ ⑤
30.	<input type="checkbox"/> ESC31 Temp. Drains and Swales _____	① ② ③ ④ ⑤
31.	<input type="checkbox"/> ESC32 Slope Drain _____	① ② ③ ④ ⑤
Velocity Reduction		
32.	<input type="checkbox"/> ESC40 Outlet Protection _____	① ② ③ ④ ⑤
33.	<input type="checkbox"/> ESC41 Check Dams _____	① ② ③ ④ ⑤
34.	<input type="checkbox"/> ESC42 Slope Roughening/Terracing _____	① ② ③ ④ ⑤

Attachment E4

Permittee Construction Guidelines and Forms

Diversion of Runoff		
35.	<input type="checkbox"/> ESC50 Silt Fence _____	① ② ③ ④ ⑤
36.	<input type="checkbox"/> ESC51 Straw Bale Barrier _____	① ② ③ ④ ⑤
37.	<input type="checkbox"/> ESC52 Sand Bag Barrier _____	① ② ③ ④ ⑤
38.	<input type="checkbox"/> ESC53 Brush or Rock Filter _____	① ② ③ ④ ⑤
39.	<input type="checkbox"/> ESC54 Drain Inlet Protection _____	① ② ③ ④ ⑤
40.	<input type="checkbox"/> ESC55 Sediment Trap _____	① ② ③ ④ ⑤
41.	<input type="checkbox"/> ESC56 Sediment Basin _____	① ② ③ ④ ⑤

Inspected by: _____ Date: _____ Phone: _____

P:\WMPUB\NPDES\Shared Info\2001NPDES_Permit\2001 NPDES permit documents\Construction Program\Req_large_sites.wpd

Attachment E4
Permittee Construction Guidelines and Forms

STORM WATER POLLUTION CONTROL
Annual inspection form FOR CONSTRUCTION SITES One acre and greater

Project Name / TR #: _____

Site Address: _____

Permit/Contract Number: _____ District Office: _____

Requirement	Yes	No	N/A	Correction Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?				
Are any non- vegetated areas that may require temporary soil stabilization?				
Is the area where temporary soil stabilization required free from visible erosion?				
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barrier properly installed in accordance with the details, functional and maintained?				
Are temporary linear sediment barrier free from accumulated litter?				
Is the built-up sediment less than 1/3 the height of the barrier?				
Are cross barriers installed where necessary and properly spaced?				
Location:				
Location:				

Attachment E4

Permittee Construction Guidelines and Forms

Requirement	Yes	No	N/A	Correction Action
Location:				
Location:				
Storm Drain Inlet Protection				
Are storm drain inlets internal to the project properly protected with inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				
Desilting Basins				
Are basins maintained to provide the required detention/retention?				
Are basin controls (inlets, outlets, diversion, weirs, spillways, and racks) in working orders?				
Location:				
Location:				
Location:				
Location:				
Stockpiles				
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 50 feet from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?				
Location:				
Location:				

Attachment E4

Permittee Construction Guidelines and Forms

Requirement	Yes	No	N/A	Correction Action
Location:				
Tracking Control				
Are sediments and other materials being tracked from the site by vehicle traffic?				
Are points of ingress/egress to public/private roads inspected and swept and vacuumed daily?				
Are all paved areas free of visible sediment tracking or other particulate matter?				
Location:				
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Are dust control measures used to stabilize soils?				
Location:				
Location:				
Location:				
Location:				
Location:				
Dewatering Operation				
Are sediment controls used to remove sediment from water generated by dewatering?				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious materials?				
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?				
If no, are drip pans used?				
Are dedicated fueling, cleaning and maintenance areas located at least 15m away from downstream drainage facilities and water courses and protected from run-on and runoff?				
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?				
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?				

Attachment E4

Permittee Construction Guidelines and Forms

Requirement	Yes	No	N/A	Correction Action
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are Material storage areas and washout areas protected from run-on and runoff, and located at least 50 feet from concentrated flows and downstream drainage facilities?				
Are materials handling and storage areas clean; organized; free of spills, leaks, or any other deleterious materials; and stocked with appropriate clean-up supplies?				
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?				
Are bagged and boxed materials stored on pallets?				
Are hazardous materials and wastes stored in appropriate, labeled containers?				
Are proper storage, clean-up, and spill reporting procedures for hazardous materials posted in open, conspicuous and accessible locations adjacent to storage areas?				
Are temporary containment facilities free of spills and rainwater?				
Are temporary containment facilities and bagged/boxed materials covered?				
Are temporary concrete washout facilities designated and being used?				
Are temporary washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?				
Do temporary washout concrete facilities provide sufficient volume and freeboard for planned concrete operations?				
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?				
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?				
Is the site free of litter?				
Are trash receptacles provided in the contractor's yard, field trailer areas, and at location where workers congregate for lunch and break periods?				

Attachment E4

Permittee Construction Guidelines and Forms

Requirement	Yes	No	N/A	Correction Action
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?				
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?				
Are waste management receptacles filled at or beyond capacity?				
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment				
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineers?				
Location:				
Location:				
Location:				
Location:				
Is there any evidence of illicit discharges or illegal dumping on the project sites?				
Location:				
Location:				
Location:				
Location:				
Are discharge points and discharged flows free from noticeable pollutants?				
Are discharge points free of any significant erosion or sediment transport?				
Location:				
Location:				
Location:				
Location:				
WWECP/LSWPPP Update				
Does the WWECP/LSWPPP, project schedules/Water Pollution Control Schedule adequately reflect the current site conditions and contractors operations?				

Attachment E4

Permittee Construction Guidelines and Forms

Requirement	Yes	No	N/A	Correction Action
Are all BMPs shown on the WWECP installed in the proper location(s) and according to the details for the plans?				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?				
Location:				
Location:				
Location:				
Location:				
Location:				

Inspected by: _____ Date: _____ Phone: _____

Attachment A
Storm Water Pollution Control Requirements for Construction Activities
Minimum Water Quality Protection Requirements for All Development Construction
Projects/Certification Statement

The following is intended as an attachment for construction and grading plans and represent the minimum standards of good housekeeping which must be implemented on all construction sites regardless of size.

- Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheetflow, swales, area drains, natural drainage courses or wind.
- Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
- Fuels, oils, solvents and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
- Non-storm water runoff from equipment and vehicle washing and any other activity shall be contained at the project site.
- Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
- Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
- Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
- Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.
- Other _____

As the project owner or authorized agent of the owner, I have read and understand the requirements listed above, necessary to control storm water pollution from sediments, erosion, and construction materials, and I certify that I will comply with these requirements.

Print Name _____
(Owner or authorized agent of the owner)

Signature _____ Date _____
(Owner or authorized agent of the owner)

Attachment B

BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITY*

The following is intended as a correction list for all construction projects and for grading review.

I. The following BMPs apply to all jobs:

CA010 MATERIAL DELIVERY AND STORAGE

Provide a material storage area with secondary containment and/or weather protection. Note the maintenance practices and schedule proposed for this area.

CA011 MATERIAL USE

Hazardous materials, fertilizers, pesticides, plasters, solvents, paints, and other compounds must be properly handled in order to reduce the risk of pollution or contamination. Training and information on procedures for the proper use of all materials must be available to the employees that apply such materials. NOTE

CA012 SPILL PREVENTION AND CONTROL

Identify spill prevention and control measures that will be taken for all proposed materials. Identify the methods, by which accidental spills will be cleaned and properly disposed of. NOTE

CA020 SOLID WASTE MANAGEMENT

Provide designated waste collection areas and containers. Arrange for regular disposal. Provide covered storage with secondary containment. Containers are required to protect waste from rain to prevent water pollution and prevent wind dispersal.

CA021 HAZARDOUS WASTE MANAGEMENT

Hazardous materials must be disposed of in accordance with State and Federal regulations. Identify the proposed methods of disposal and any special handling contracts that may be applicable. NOTE

ESC24 STABILIZED CONSTRUCTION ENTRANCE

A stabilized entrance is required for all construction sites to ensure that dirt and debris are not tracked onto the road or adjacent property. Maintenance of such a system is required for the duration of the project. Such stabilization may be of rock or paved.

ESC55 SEDIMENT TRAP

Eroded sediments must be retained on site and not permitted to enter the drainage system.

II. The following BMPs apply to site construction:

CA003 STRUCTURE CONSTRUCTION AND PAINTING

Proper disposal of all wastes is required to keep pollutants from the storm water runoff which will be conveyed into the storm drain system. The proper handling of all materials is required. NOTE

CA023 CONCRETE WASTE MANAGEMENT

Store dry and wet materials under cover. Avoid on-site washout except in designated areas away from drains, ditches, streets, and streams. Concrete waste deposited on site shall set-up, be broken apart, and disposed of properly. Containment and proper disposal is required for all concrete waste. NOTE

* The above Best Management Practices are detailed and explained in the California Storm Water Best Management Handbook, March 1993.

CA - These BMPs are found in Chapter 4: *Contractor Activities*

ESC - These BMPs are found in Chapter 5: *Erosion and Sediment Control*

Attachment E4

Permittee Construction Guidelines and Forms

CA024 SANITARY/SEPTIC WASTE MANAGEMENT

Untreated raw wastewater is not to be discharged or buried. Sanitary sewer facilities on site are required to be in compliance with local health agency requirements. Sanitary or septic wastes must be treated or disposed of in accordance with state and local requirements. NOTE

III. For general site applications the following BMPs may apply:

ESC02 PRESERVATION OF EXISTING VEGETATION

Identify the areas in which existing vegetation will remain undisturbed. Sensitive areas which may require preservation include steep slopes, watercourses, and wooded sites. Protection is required for vernal pools, wetlands, marshes, and oak tree sites.

ESC11 MULCHING

Identify the specific locations that mulching will be used as a soil stabilizer. Specify the specific material mixture that the mulch will consist of.

ESC20 GEOTEXTILE

Identify the specific locations that geotextile mats will be used as a soil stabilizer. Include the manufacture specifications for the brand of matting to be used .

ESC21 DUST CONTROL

Dust control is required for clearing, grading, construction, soil stockpiling, and site work during dry weather, as well as for unimproved roadways. Identify the means by which dust control will be performed on site and note the frequency in which it will occur. Non-compliance will be reported to the South Coast Air Quality Management District for additional enforcement.

ESC41 CHECK DAMS

Check dams are required to reduce the velocity of concentrated flow. Identify the specific locations and design of the proposed check dams. Regular maintenance is required for such devices.

ESC50 SILT FENCE

A silt fence is useful for retention of sediment in the location of sheet flow or wind erosion. Identify the specific locations silt fences will be used for sediment retention. Such devices require a maintenance schedule.

ESC51 STRAW BALE BARRIER

Identify the specific locations where straw bales will be used for sediment retention or velocity reducers. A maintenance schedule is required for such devices.

ESC52 SAND BAG BARRIER

Sand bag barriers are useful in a great variety of locations for the control of erosion. Sand bags will function in a similar manner as check dams, barriers, clarifiers and many other types of erosion control devices with similar uses. Sand bag devices may apply to a greater number of sites for reasons of versatility and standard use. Identify the specific locations and design of sand bag barriers and note the schedule by which they will be maintained.

ESC53 BRUSH OR ROCK FILTER

Brush or rock filters require special approval for proper application and construction. The design engineer must approve the application, on site, before the County inspection in order to ensure the minimum quality of construction. Such devices will only be considered for approval on minor applications.

ESC54 STORM DRAIN INLET PROTECTION

Attachment E4

Permittee Construction Guidelines and Forms

All inlets which receive sediment laden runoff require storm drain inlet protection. Sediment traps, filter fabric fences, sand bag filters, gravel and wire mesh filters, are examples of inlet protection which may be applied at such locations. Identify the methods of protecting each inlet.

IV. The following BMPs will apply to grading projects:

CA001 DEWATERING OPERATIONS

Sediment control devices must be provided in order to prevent discharge of pollutants in the storm water discharge. Testing for toxic substances and petroleum products and clearance from the Regional Water Quality Control Board is required.

CA030 VEHICLE AND EQUIPMENT CLEANING

Prevent discharge of pollutants to storm water. Minimize water use. Identify the location that all vehicles and equipment will be cleaned. Provide secondary containment, or collection of waste waters. Use biodegradable, phosphate-free soaps. Steam cleaning waste must be contained on-site, collected and properly disposed of.

CA031 VEHICLE AND EQUIPMENT FUELING

Perform all refueling at designated areas with containment to prevent spills. Provide cover and/or secondary containment for stored fuels.

CA032 VEHICLE AND EQUIPMENT MAINTENANCE

On site maintenance must be in a designated dry area with secondary containment. Segregate and recycle all vehicle waste and equipment. Do not allow ground spills or discharge into storm water. Identify the location, maintenance activities will be performed, and the method of containment.

ESC01 SCHEDULING

Proper sequencing should be scheduled in order to reduce the site erosion potential. Minimize disturbance of highly erodible areas. Plan around heavy rains and make provisions for year round stabilization.

ESC10 SEEDING AND PLANTING

Seeding and Planting is required for soil stabilization for sloped areas and disturbed ground. Such stabilization may be necessary as a temporary measure for borrow sites.

ESC22 TEMPORARY STREAM CROSSING

A temporary culvert, Ford or Bridge is required for all stream crossings and shall be in use for a period not to exceed one year. Crossings must be provided for all perennial and intermittent streams.

ESC30 EARTH DIKE

Such a device is required for water runoff control or containment and is required to be engineered as part of an overall erosion and construction related pollution control plan.

ESC31 TEMPORARY DRAINS AND SWALES

Drains and swales are required as specified by an engineer for a designed erosion and construction related pollution plan.

ESC32 SLOPE DRAIN

A slope drain is required to convey runoff from the top of a slope via a pipe or lined channel to a stable discharge point at the bottom of the slope. Such devices are required to be engineered as part of an erosion and construction related pollution control plan.

ESC40 OUTLET PROTECTION

Attachment E4

Permittee Construction Guidelines and Forms

Outlet protection is required to reduce the erosion potential of high velocity concentrated flow from pipes or other drainage devices. Identify the methods and locations of each outlet protection. A regular maintenance schedule is required for such devices in order to ensure proper function at all times.

ESC42 SLOPE ROUGHENING/TERRACING

Identify the slopes to be terraced or roughened for stabilization. Note the seed mixture and method of irrigation, if any, to be used.

ESC56 SEDIMENT BASIN

The application of a sediment basin requires an engineer approval with calculations to justify the capacity of the device. A regular maintenance schedule is required for the sediment basin and outlet protection is required for the outflow.

V. The following BMPs will apply to private roads and subdivision projects with road construction:

CA002 PAVING OPERATIONS

Where paving will occur on private property, proper precautions and practices must be performed to ensure that pollutants do not become deposited into the storm runoff and that all spills, wastes, and products from various activities are disposed of properly.

ESC23 CONSTRUCTION ROAD STABILIZATION

All private roads and parking areas require stabilization by the application of rock, watering or other form of dust control, or paving. Maintenance and necessary post construction BMP's are required for all roadways.

CA023 CONCRETE WASTE MANAGEMENT

Store dry and wet materials under cover. Avoid on-site washout except in designated areas away from drains, ditches, streets, and streams. Concrete waste deposited on site shall set-up, be broken apart, and disposed of properly. Containment and proper disposal is required for all concrete waste. NOTE

VI. The following BMPs may apply to sites with certain existing conditions or due to complex BMPs being implemented:

CA040 EMPLOYEE/SUBCONTRACTOR TRAINING

Integrate training regarding storm water quality management into existing training programs.

CA022 CONTAMINATED SOIL MANAGEMENT

Verify soil conditions on suspect sites by performing site assessment and regular inspections for discoloration, odors, or other signs of contamination. See Table 4.2 of the California Storm Water BMP Handbook for disposal alternatives. Proper handling and disposal is required. NOTE

Attachment C
Certification

As the project architect/engineer of record, I have reviewed the *Best Management Practices Handbooks, California Storm Water Quality Task Force, Sacramento, CA*. I certify that appropriate BMPs will be implemented to effectively minimize the negative impacts of this project's construction activities on storm water quality. The project owner and contractor are aware that the selected BMPs must be installed, monitored, and maintained to ensure their effectiveness. The BMPs not selected for implementation are redundant or deemed not applicable to the proposed construction activities. If at any time, site conditions and/or the County/City official warrant reevaluation and revisions of the chosen BMPs, the appropriate changes will be made without unnecessary delay. I am aware that failure to properly implement and maintain, while under construction, the BMPs necessary to prevent the discharge of pollutants from this project could result in significant penalties and/or delays.

Signed: _____

Title: _____

Date: _____

Attachment E4
Permittee Construction Guidelines and Forms

Attachment D
Owner's NOI/SWPPP Certification Form

National Pollutant Discharge Elimination System (NPDES) is the portion of the Clean Water Act that applies to protection of receiving waters. Construction activity that will disturb a ground surface area of 5 acres or more (about 220,000 square feet or 2.02 hectares), or if the project results in the disturbance of less than 5 acres of soil but is part of a larger common plan of development or site that exceeds 5 acres, is subject to requirements of the California General Permit for Storm Water Discharges Associated with Construction Activity (Permit No. CAS004001) under the NPDES Program. A Notice of Intent (NOI) is required to be filed with the SWRCB and a Storm Water Pollution Prevention Plan (SWPPP) is required to be prepared and implemented. Proof of a Waste Discharger Identification (WDID) Number is required as proof that the NOI and SWPPP were submitted to SWRCB.

Site Address or Tract No: _____ Permit No: _____

Owner: _____ Contractor: _____

.....
I have read and understand the requirements indicated above.

Owner or Authorized Representative

Date

In compliance with the above requirements, I certify that a Notice of Intent has been filed with the State Water Resources Control Board and that a Storm Water Pollution Prevention Plan has been prepared.

Owner or Authorized Representative

Date

ATTACHMENT E5

BMP CHECKLIST

E5.1 EROSION CONTROL PRACTICES

<i>BMP Description</i>	<i>Will BMP Be Used?</i>		<i>If Yes, Explain How</i>
	<i>Yes</i>	<i>No</i>	<i>If No, State Reason</i>
Site Planning Considerations			
Scheduling (ESC01)			
Preservation of Existing Vegetation (ESC02)			
Vegetative Stabilization			
Seeding & Planting (ESC10)			
Mulching (ESC11)			
Physical Stabilization			
Geotextiles & Mats (ESC20)			
Dust Control (ESC21)			
Temporary Stream Crossing (ESC22)			
Construction Road Stabilization (ESC23)			
Diversion of Runoff			
Earth Dike (ESC30)			
Temporary Drains & Swales (ESC31)			
Slope Drain (ESC32)			
Velocity Reduction			
Outlet Protection (ESC40)			
Check Dams (ESC41)			
Slope Roughening/Terracing (ESC42)			

E5.2 SEDIMENT CONTROL PRACTICES

<i>BMP Description</i>	<i>Will BMP Be Used?</i>		<i>If Yes, Explain How</i>
	<i>Yes</i>	<i>No</i>	<i>If No, State Reason</i>
Silt Fence (ESC50)			
Straw Bale Barrier (ESC51)			
Sand Bag Barrier (ESC52)			
Brush or Rock Filter (ESC53)			
Storm Drain Inlet Protection (ESC54)			
Sediment Trap (ESC55)			
Sediment Basin (ESC56)			

E5.3 TRACKING CONTROL PRACTICES

<i>BMP Description</i>	<i>Will BMP Be Used?</i>		<i>If Yes, Explain How</i>
	<i>Yes</i>	<i>No</i>	<i>If No, State Reason</i>
Tracking Control			
Stabilized Construction Entrance (ESC24)			

E5.4 NON-STORMWATER AND MATERIAL AND WASTE MANAGEMENT PRACTICES

<i>BMP Description</i>	<i>Will BMP Be Used?</i>		<i>If Yes, Explain How</i>
	<i>Yes</i>	<i>No</i>	<i>If No, State Reason</i>
Construction Practices			
Dewatering Operations (CA001)			
Paving Operations (CA002)			
Structure Construction & Painting (CA003)			
Vehicle & Equipment Management			
Vehicle & Equipment Cleaning (CA030)			
Vehicle & Equipment Fueling (CA031)			
Vehicle & Equipment Maintenance (CA032)			
Material Management			
Material Delivery and Storage (CA010)			
Material Use (CA011)			
Spill Prevention and Control (CA012)			
Waste Management			
Solid Waste Management (CA020)			
Hazardous Waste Management (CA021)			
Contaminated Soil Management (CA022)			
Concrete Waste Management (CA023)			
Sanitary/Septic Waste Management (CA024)			
Contractor Training			
Employee/Subcontractor Training (CA040)			