WATER POLLUTION CONTROL

WATER POLLUTION CONTROL REQUIREMENTS VARY BY PROJECT SIZE AS FOLLOWS:

A. PROJECTS WITH LESS THAN 1 ACRE OF GROUND DISTURBANCE

PRIOR TO ANY CONSTRUCTION ACTIVITY, A WATER POLLUTION CONTROL PLAN (WPCP) SHALL BE SUBMITTED AND APPROVED BY THE CITY. THE WPCP SHALL ADDRESS BOTH TEMPORARY AND PERMANENT EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPS) FOR STORM WATER AND NON-STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. APPROVAL OF THE WPCP SHALL NOT RELIEVE THE PROJECT OWNER OR THE CONTRACTOR OF ANY LIABILITY FOR VIOLATIONS OF STATE OR FEDERAL LAW RELATING TO WATER POLLUTION. COPIES OF THE WPCP SHALL BE KEPT AT THE PROJECT SITE AND IT SHALL BE AVAILABLE DURING CONSTRUCTION.

THE PROJECT OWNER AND THE CONTRACTOR SHALL KNOW AND FULLY COMPLY WITH APPLICABLE PROVISIONS OF ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND REQUIREMENTS THAT GOVERN THE CONTRACTOR'S OPERATIONS AND STORM WATER AND NON-STORM WATER DISCHARGES FROM BOTH THE PROJECT SITE AND AREAS OF DISTURBANCE OUTSIDE THE PROJECT LIMITS DURING CONSTRUCTION.

THE WPCP SHALL ADDRESS STORM WATER AND NON-STORM WATER DISCHARGES FROM AREAS IN THE VICINITY OF THE PROJECT SITE WHICH ARE DIRECTLY RELATED TO CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO, MATERIAL BORROW/STOCKPILE AREAS, STAGING AREAS, STORAGE YARDS AND ACCESS ROADS. THE CONTRACTOR SHALL IMPLEMENT, INSPECT AND MAINTAIN THE REQUIRED WATER POLLUTION CONTROL PRACTICES.

THE PROJECT OWNER SHALL BE RESPONSIBLE FOR PENALTIES ASSESSED OR LEVIED ON THE PROJECT OWNER, CONTRACTOR, OR THE CITY OF REDDING AS A RESULT OF THE CONTRACTOR'S FAILURE TO COMPLY WITH THE PROVISIONS IN THIS SECTION INCLUDING, BUT NOT LIMITED TO, COMPLIANCE WITH THE APPLICABLE PROVISIONS OF FEDERAL, STATE AND LOCAL REGULATIONS AND REQUIREMENTS AS SET FORTH THEREIN.

PENALTIES AS USED IN THIS SECTION SHALL INCLUDE FINES, PENALTIES AND DAMAGES, WHETHER PROPOSED, ASSESSED, OR LEVIED AGAINST THE CITY, OWNER, OR THE CONTRACTOR, INCLUDING THOSE LEVIED UNDER THE FEDERAL CLEAN WATER ACT, STATE FISH AND WILDLIFE CODE, AND THE STATE PORTER-COLOGNE WATER QUALITY CONTROL ACT, BY GOVERNMENTAL AGENCIES OR AS A RESULT OF CITIZEN SUITS. PENALTIES SHALL ALSO INCLUDE PAYMENTS MADE OR COSTS INCURRED DUE TO STOP WORK ORDERS, WORK SUSPENSION, AND/OR CONTRACTOR DELAYS OR IN SETTLEMENT FOR ALLEGED VIOLATIONS OF APPLICABLE LAWS, REGULATIONS, OR REQUIREMENTS. COSTS INCURRED COULD INCLUDE SUMS SPENT INSTEAD OF PENALTIES, DUE TO AGENCY OR CITY IMPOSED MITIGATION OR TO REMEDIATE OR CORRECT VIOLATIONS, OR DAMAGES RESULTING FROM STOP WORK ORDERS OR WORK SUSPENSION.

THE CONTRACTOR SHALL NOTIFY THE CITY IMMEDIATELY UPON REQUEST FROM THE REGULATORY AGENCIES TO ENTER, INSPECT, SAMPLE, MONITOR, OR OTHERWISE ACCESS THE PROJECT SITE OR THE CONTRACTOR'S RECORDS PERTAINING TO WATER POLLUTION CONTROL WORK. THE CONTRACTOR AND PROJECT OWNER SHALL PROVIDE COPIES OF CORRESPONDENCE, NOTICES OF VIOLATION, ENFORCEMENT ACTIONS OR PROPOSED FINES BY REGULATORY AGENCIES TO THE CITY.

1. WATER POLLUTION CONTROL PLAN PREPARATION AND APPROVAL

THE WPCP SHALL ADDRESS STORM WATER RUN-OFF AND RUN-ON FOR ALL DISTURBED AND AFFECTED AREAS OF CONSTRUCTION, INCLUDING TEMPORARY AND PERMANENT MEASURES. THE REQUIREMENTS DESCRIBED HEREIN ARE CONSIDERED MINIMUM REQUIREMENTS TO SATISFY THE CITY OF REDDING EROSION CONTROL STANDARDS. ALL BMPS SHALL BE DESIGNED, INSTALLED, MAINTAINED, AND OTHERWISE MANAGED PURSUANT TO THE PROVISIONS SET FORTH IN THE MOST CURRENT VERSIONS OF EITHER THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STORMWATER QUALITY HANDBOOK, CONSTRUCTION SITE BMP MANUAL, OR THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA), CALIFORNIA STORMWATER BMP HANDBOOK FOR
CONSTRUCTION. THE CONTRACTOR MAY RECOMMEND EQUIVALENT EROSION CONTROL APPLICATIONS THAT PROVIDE EQUAL OR BETTER PERFORMANCE FOR CONSIDERATION AND APPROVAL BY THE CITY.

THE WPCP SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER EXPERIENCED IN EROSION CONTROL, A QUALIFIED SWPPP DEVELOPER, OR A CERTIFIED PROFESSIONAL EROSION AND SEDIMENT CONTROL SPECIALIST, UNLESS OTHERWISE APPROVED BY THE CITY. IMPLEMENTATION, MONITORING, AND MAINTENANCE OF BMPS SHALL BE BY OR UNDER THE SUPERVISION OF SAME. THE WPCP SHOULD BE COMENSURATE WITH THE SIZE, DURATION, TIMING, LOCATION, AND OVERALL SCOPE OF THE PROJECT.

THE WPCP SHALL INCORPORATE WATER POLLUTION CONTROL PRACTICES IN THE FOLLOWING CATEGORIES:

e. SOIL STABILIZATION.
   b. SEDIMENT CONTROL.
   c. WIND EROSION CONTROL.
   d. TRACKING CONTROL.
   e. NON-STORM WATER MANAGEMENT.
   f. WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL.

A WATER POLLUTION CONTROL SCHEDULE SHALL BE DEVELOPED THAT DESCRIBES THE TIMING OF GRADING OR OTHER WORK ACTIVITIES THAT COULD AFFECT WATER POLLUTION. THE WATER POLLUTION CONTROL SCHEDULE SHALL BE UPDATED AS NECESSARY TO REFLECT CHANGES IN THE CONTRACTOR’S OPERATIONS THAT WOULD AFFECT IMPLEMENTATION OF WATER POLLUTION CONTROL PRACTICES.

THE CONTRACTOR SHALL PREPARE AN AMENDMENT TO THE WPCP SUCH AS WHEN THERE IS A SUBSTANTIAL CHANGE IN CONSTRUCTION ACTIVITIES OR OPERATIONS WHICH MAY AFFECT THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS, GROUND WATERS, OR STORM DRAIN SYSTEMS; WHEN THERE IS A CHANGE IN THE SCHEDULE THAT AFFECTS THE DISCHARGE OF POLLUTANTS; OR WHEN DIRECTED BY THE CITY. AMENDMENTS SHALL IDENTIFY ADDITIONAL WATER POLLUTION CONTROL PRACTICES OR REVISED OPERATIONS, INCLUDING THOSE AREAS OR OPERATIONS NOT IDENTIFIED IN THE INITIALLY APPROVED WPCP. AMENDMENTS TO THE WPCP SHALL BE PREPARED AND SUBMITTED FOR REVIEW AND APPROVAL WITHIN THE TIME APPROVED BY THE CITY.

2. WPCP IMPLEMENTATION


IF A DEFICIENCY IS IDENTIFIED IN THE IMPLEMENTATION OF THE APPROVED WPCP OR AMENDMENTS, THE DEFICIENCY SHALL BE CORRECTED IMMEDIATELY UNLESS APPROVED BY THE CITY IN WRITING, BUT SHALL BE CORRECTED PRIOR TO THE ONSET OF PRECIPITATION. IF THE IDENTIFIED DEFICIENCY IS NOT CORRECTED BY THE DATE AGREED OR PRIOR TO THE ONSET OF PRECIPITATION, THE PROJECT SHALL BE IN NONCONFORMANCE AND SUBJECT TO PENALTIES.

IF THE PROJECT DOES NOT CONFORM TO THE PROVISIONS OF THIS SECTION, THE CITY MAY ORDER THE SUSPENSION OF CONSTRUCTION OPERATIONS UNTIL THE PROJECT IS BROUGHT INTO COMPLIANCE WITH THIS SECTION.

3. YEAR-ROUND IMPLEMENTATION REQUIREMENTS

IMPLEMENTATION OF WATER POLLUTION CONTROL PRACTICES MAY VARY BY SEASON. A YEAR-ROUND PROGRAM SHALL BE IN PLACE FOR IMPLEMENTING, INSPECTING AND MAINTAINING WATER POLLUTION CONTROL PRACTICES FOR WIND EROSION CONTROL, TRACKING CONTROL, NON-STORM WATER MANAGEMENT, AND WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL.

THE NATIONAL WEATHER SERVICE WEATHER FORECAST SHALL BE MONITORED AND USED BY THE CONTRACTOR ON A DAILY BASIS. IF 30% OR GREATER PRECIPITATION IS PREDICTED, THE NECESSARY WATER POLLUTION CONTROL PRACTICES SHALL BE DEPLOYED PRIOR TO THE ONSET OF THE PRECIPITATION. IF THERE IS LESS THAN A 30% CHANCE OF PRECIPITATION, THE CONTRACTOR OR OWNER SHALL STILL BE RESPONSIBLE FOR ENSURING THE PROJECT SITE DOES NOT RESULT IN A DISCHARGE OF POLLUTANTS OFF-SITE. REGARDLESS OF THE CHANCES OF PRECIPITATION, THE CONTRACTOR SHALL ALLOW ADEQUATE TIME TO PROPERLY INSTALL ALL REQUIRED BMPS PRIOR TO PRECIPITATION.
DISTURBED SOIL AREAS SHALL BE CONSIDERED ACTIVE WHENEVER THE SOIL DISTURBING ACTIVITIES HAVE OCCURRED, CONTINUE TO OCCUR OR WILL OCCUR DURING THE ENSUING 14 DAYS. NON-ACTIVE AREAS SHALL BE STABILIZED WITH WATER POLLUTION CONTROL PRACTICES WITHIN 14 DAYS OF CESSATION OF SOIL DISTURBING ACTIVITIES OR PRIOR TO THE ONSET OF PRECIPITATION, WHICHEVER OCCURS FIRST.

4. MAINTENANCE

TO ENSURE THE PROPER IMPLEMENTATION AND FUNCTIONING OF WATER POLLUTION CONTROL PRACTICES, ALL WATER POLLUTION CONTROL PRACTICES IDENTIFIED IN THE WPCP SHALL BE INSPECTED AND MAINTAINED REGULARLY. THE CONSTRUCTION SITE SHALL BE INSPECTED AS FOLLOWS:

a. PRIOR TO A FORECAST STORM.
b. AFTER A PRECIPITATION EVENT WHICH CAUSES SITE RUNOFF.
c. AT 24 HOUR INTERVALS DURING EXTENDED PRECIPITATION EVENTS.
d. ROUTINELY, A MINIMUM OF ONCE EVERY TWO WEEKS.

A STORM WATER QUALITY CONSTRUCTION SITE INSPECTION CHECKLIST SHALL BE USED AS APPROVED BY THE CITY. ONE COPY OF EACH SITE INSPECTION RECORD SHALL BE SUBMITTED TO THE CITY WITHIN 48 HOURS OF COMPLETING THE INSPECTION.

5. REPORT OF DISCHARGES, NOTICES OR ORDERS

IF A DISCHARGE FROM THE PROJECT SITE OCCURS, REGARDLESS OF SOURCE, IN A MANNER CAUSING, OR POTENTIALLY CAUSING, A CONDITION OF POLLUTION IN SURFACE WATERS OR DRAINAGE SYSTEMS, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE CITY. IN ADDITION, THE CONTRACTOR SHALL SUBMIT A WRITTEN NOTICE OF DISCHARGE REPORT TO THE CITY WITHIN 24 HOURS OF THE DISCHARGE EVENT. THE REPORT SHALL INCLUDE THE FOLLOWING INFORMATION:

a. THE DATE, TIME, LOCATION, NATURE OF THE OPERATION, AND TYPE OF DISCHARGE, INCLUDING THE CAUSE OR NATURE OF THE NOTICE OR ORDER.
b. THE WATER POLLUTION CONTROL PRACTICES DEPLOYED BEFORE THE DISCHARGE EVENT.
c. THE DATE OF DEPLOYMENT AND TYPE OF WATER POLLUTION CONTROL PRACTICES DEPLOYED AFTER THE DISCHARGE EVENT, INCLUDING ADDITIONAL MEASURES INSTALLED OR PLANNED TO REMEDIATE AND CLEAN–UP THE DISCHARGE, AND/OR REDUCE OR PREVENT REOCCURRENCE.
d. AN IMPLEMENTATION AND MAINTENANCE SCHEDULE FOR AFFECTED WATER POLLUTION CONTROL PRACTICES.

6. REPORT OF FIRST–TIME NON–STORM WATER DISCHARGE


IF A WRITTEN NOTICE, ORDER, OR OTHER NON–COMPLIANCE ACTION LETTER IS RECEIVED FROM A REGULATORY AGENCY AS A RESULT OF STORM WATER OR OTHER DISCHARGES FROM THE PROJECT SITE, THE CITY SHALL BE NOTIFIED IMMEDIATELY. THE PROJECT OWNER AND/OR CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR RESPONDING TO AND COMPLYING WITH THE NOTICE, ORDER, OR ACTION LETTER, UNLESS OTHERWISE DIRECTED BY THE CITY.

B. PROJECTS WITH 1 ACRE OR MORE OF GROUND DISTURBANCE

PRIOR TO ANY CONSTRUCTION ACTIVITY, THE PROJECT APPLICANT SHALL PREPARE, SUBMIT, AND OBTAIN APPROVAL OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE NPDES GENERAL CONSTRUCTION PERMIT FOR STORM WATER AND NON–STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES, ENTITLED: "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT – WATER QUALITY ORDER 2009–0009-DWQ. PRIOR TO GROUND DISTURBANCE, THE SWPPP SHALL BE APPROVED BY THE CITY AND A WQID NUMBER OBTAINED FROM THE STATE. APPROVAL DOES NOT RELIEVE THE PROJECT OWNER OR CONTRACTOR OF ANY LIABILITY FOR VIOLATIONS OF STATE OR FEDERAL LAW RELATING TO WATER POLLUTION.

THE NPDES PERMIT THAT REGULATES THIS PROJECT, AS REFERENCED ABOVE, IS HEREAFTER COLLECTIVELY REFERRED TO AS THE "PERMIT."

THE PERMIT SHALL APPLY TO STORM WATER AND CERTAIN PERMITTED NON-STORM WATER DISCHARGES FROM AREAS OUTSIDE THE PROJECT SITE WHICH ARE DIRECTLY RELATED TO CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO, MATERIAL BORROW/STORAGE AREAS, STAGING AREAS, STORAGE YARDS AND ACCESS ROADS. THE CONTRACTOR SHALL COMPLY WITH THE PERMIT FOR THOSE AREAS AND SHALL IMPLEMENT, INSPECT AND MAINTAIN THE REQUIRED WATER POLLUTION CONTROL PRACTICES.

THE PROJECT OWNER SHALL BE RESPONSIBLE FOR PENALTIES ASSESSED OR LEVIED ON THE PROJECT OWNER, CONTRACTOR, OR THE CITY OF REDDING AS A RESULT OF THE CONTRACTOR’S FAILURE TO COMPLY WITH THE PROVISIONS IN THIS SECTION INCLUDING, BUT NOT LIMITED TO, COMPLIANCE WITH THE APPLICABLE PROVISIONS OF THE PERMIT, AND FEDERAL, STATE AND LOCAL REGULATIONS AND REQUIREMENTS AS SET FORTH THEREIN.

PENALTIES AS USED IN THIS SECTION SHALL INCLUDE FINES, PENALTIES AND DAMAGES, WHETHER PROPOSED, ASSESSED, OR LEVIED AGAINST THE CITY OF REDDING, PROJECT OWNER, OR THE CONTRACTOR, INCLUDING THOSE LEVIED UNDER THE FEDERAL CLEAN WATER ACT, STATE FISH AND WILDLIFE CODE, AND THE STATE PORTER-COLOGNE WATER QUALITY CONTROL ACT, BY GOVERNMENTAL AGENCIES OR AS A RESULT OF CITIZEN SUITS. PENALTIES SHALL ALSO INCLUDE PAYMENTS MADE OR COSTS INCURRED DUE TO STOP WORK ORDERS, WORK SUSPENSION, AND/OR CONTRACTOR DELAYS OR IN SETTLEMENT FOR ALLEGED VIOLATIONS OF THE PERMIT, OR APPLICABLE LAWS, REGULATIONS, OR REQUIREMENTS. COSTS INCURRED COULD INCLUDE SUMS SPENT INSTEAD OF PENALTIES, DUE TO AGENCY OR CITY IMPOSED MITIGATION OR TO REMEDIATE OR CORRECT VIOLATIONS, OR DAMAGES RESULTING FROM STOP WORK ORDERS, OR WORK SUSPENSION.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON REQUEST FROM THE REGULATORY AGENCIES TO ENTER, INSPECT, SAMPLE, MONITOR, OR OTHERWISE ACCESS THE PROJECT SITE OR THE CONTRACTOR’S RECORDS PERTAINING TO WATER POLLUTION CONTROL WORK. THE CONTRACTOR AND PROJECT OWNER SHALL PROVIDE COPIES OF CORRESPONDENCE, NOTICES OF VIOLATION, ENFORCEMENT ACTIONS OR PROPOSED FINES BY REGULATORY AGENCIES TO THE CITY.

1. STORM WATER POLLUTION PREVENTION PLAN PREPARATION, APPROVAL, AND AMENDMENTS

THE REQUIREMENTS DESCRIBED HEREIN ARE CONSIDERED MINIMUM REQUIREMENTS TO SATISFY THE CITY OF REDDING EROSION CONTROL STANDARDS. NO GROUND DISTURBING WORK SHALL BE PERFORMED UNTIL A SWPPP HAS BEEN APPROVED BY THE CITY AND A WAIST DISCHARGE IDENTIFICATION NUMBER (WDID) FOR THE PROJECT HAS BEEN ASSIGNED BY THE STATE. THE SWPPP SUBMITAL TO THE CITY SHALL CONTAIN ALL PERMIT REGISTRATION DOCUMENTS (PRD) AS REQUIRED BY THE PERMIT, INCLUDING THE DRAFT NOTICE OF INTENT (NOI), RISK ASSESSMENT, SITE MAP, SWPPP SCHEDULE, AND SIGNED CERTIFICATION STATEMENTS. SWPPP APPROVAL BY THE CITY SHALL NOT CONSTITUTE A FINDING THAT THE SWPPP COMPLIES WITH APPLICABLE REQUIREMENTS OF THE PERMIT AND APPLICABLE FEDERAL, STATE AND LOCAL LAWS, REGULATIONS, PERMITS, AND REQUIREMENTS, NOR DOES APPROVAL SUPERCEDE THE REQUIREMENTS AND PROVISIONS OF THE PERMIT, OR ANY OTHER FEDERAL, STATE, OR LOCAL REGULATIONS OR PERMIT IN THE EVENT OF A CONFLICT.


UPON APPROVAL BY THE CITY, THE PROJECT OWNER SHALL SUBMIT THE PRD ELECTRONICALLY TO THE STATE WATER RESOURCES CONTROL BOARD (STATE) WEBSITE, ENTITLED STORMWATER MULTI APPLICATION REPORTING AND TRACKING SYSTEM (SMARTS). THE PROJECT OWNER IS ALSO RESPONSIBLE FOR SUBMITTING THE APPROPRIATE FEE TO THE STATE AND OBTAINING A CERTIFIED NOI WDID FOR THE PROJECT. NO GROUND DISTURBING WORK SHALL OCCUR UNTIL THE PRD HAS BEEN UPLOADED TO THE STATE WEBSITE AND A WDID HAS BEEN ASSIGNED TO THE PROJECT.
ALL BMPS SHALL BE DESIGNED, INSTALLED, MAINTAINED, AND OTHERWISE MANAGED PURSUANT TO THE PROVISIONS SET FORTH IN THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STORMWATER QUALITY HANDBOOK, CONSTRUCTION SITE BMP MANUAL, MARCH 2003, OR THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA), CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION, NOVEMBER 2009. EQUAL EROSION CONTROL APPLICATIONS THAT PROVIDE EQUAL OR BETTER PERFORMANCE MAY ALSO BE PROPOSED FOR CONSIDERATION AND APPROVAL BY THE CITY.

THE SWPPP SHALL INCORPORATE WATER POLLUTION CONTROL PRACTICES IN THE FOLLOWING CATEGORIES:

a. SOIL STABILIZATION.
b. SEDIMENT CONTROL.
c. WIND EROSION CONTROL.
d. TRACKING CONTROL.
e. NON-STORM WATER MANAGEMENT.
f. WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL.

A WATER POLLUTION CONTROL SCHEDULE SHALL BE DEVELOPED THAT DESCRIBES THE TIMING OF GRADING OR OTHER WORK ACTIVITIES THAT COULD AFFECT WATER POLLUTION. THE WATER POLLUTION CONTROL SCHEDULE SHALL BE UPDATED, AS NECESSARY, TO REFLECT CHANGES IN THE CONTRACTOR'S OPERATIONS THAT WOULD AFFECT IMPLEMENTATION OF WATER POLLUTION CONTROL PRACTICES. COPIES OF ALL UPDATES SHALL BE KEPT WITH THE SWPPP AT THE PROJECT SITE.

AN AMENDMENT TO THE SWPPP SHALL BE PREPARED, AS REQUIRED BY THE PERMIT, SUCH AS WHEN THERE IS A SUBSTANTIAL CHANGE IN CONSTRUCTION ACTIVITIES OR OPERATIONS WHICH MAY AFFECT THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS, GROUND WATERS, STORM DRAIN SYSTEMS; WHEN THE CONTRACTOR'S ACTIVITIES OR OPERATIONS VIOLATE A CONDITION OF THE PERMIT; WHEN THERE IS A CHANGE IN THE SCHEDULE THAT AFFECTS THE DISCHARGE OF POLLUTANTS; WHEN THERE IS A CHANGE IN THE SCHEDULE THAT AFFECTS THE RISK LEVEL REQUIRED BY THE PERMIT; OR WHEN DIRECTED BY THE CITY. AMENDMENTS SHALL IDENTIFY ADDITIONAL WATER POLLUTION CONTROL PRACTICES OR REVISED OPERATIONS, INCLUDING THOSE AREAS OR OPERATIONS NOT IDENTIFIED IN THE INITIALLY APPROVED SWPPP. AMENDMENTS TO THE SWPPP SHALL BE PREPARED AND SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY WITHIN THE TIME REQUIRED BY THE PERMIT.

2. SWPPP IMPLEMENTATION


IF A DEFICIENCY IS IDENTIFIED IN THE IMPLEMENTATION OF THE APPROVED SWPPP OR AMENDMENTS, THE DEFICIENCY SHALL BE CORRECTED IMMEDIATELY UNLESS REQUESTED BY THE CONTRACTOR AND APPROVED BY THE CITY IN WRITING, BUT SHALL BE CORRECTED PRIOR TO THE ONSET OF PRECIPITATION. IF THE IDENTIFIED DEFICIENCY IS NOT CORRECTED BY THE DATE AGREED OR PRIOR TO THE ONSET OF PRECIPITATION, THE PROJECT SHALL BE IN NONCONFORMANCE WITH THIS SECTION AND SUBJECT TO PENALTIES.

IF THE PROJECT DOES NOT CONFORM TO THE PROVISIONS OF THIS SECTION, THE CITY MAY ORDER THE SUSPENSION OF CONSTRUCTION OPERATIONS UNTIL THE PROJECT IS BROUGHT INTO COMPLIANCE WITH THIS SECTION.

3. YEAR-ROUND IMPLEMENTATION REQUIREMENTS

IMPLEMENTATION OF WATER POLLUTION CONTROL PRACTICES MAY VARY BY SEASON. A YEAR-ROUND PROGRAM SHALL BE IN PLACE FOR IMPLEMENTING, INSPECTING AND MAINTAINING WATER POLLUTION CONTROL PRACTICES FOR WIND EROSION CONTROL, TRACKING CONTROL, NON-STORM WATER MANAGEMENT, AND WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL AS REQUIRED BY THE PERMIT.
THE NATIONAL WEATHER SERVICE WEATHER FORECAST SHALL BE MONITORED AND USED BY THE CONTRACTOR ON A DAILY BASIS. THESE STANDARDS REQUIRE THAT IF 30% OR GREATER PRECIPITATION IS PREDICTED, THE NECESSARY WATER POLLUTION CONTROL PRACTICES SHALL BE DEPLOYED PRIOR TO THE ONSET OF THE PRECIPITATION. IF THERE IS LESS THAN A 30% CHANCE OF PRECIPITATION, THE CONTRACTOR OR OWNER SHALL STILL BE RESPONSIBLE FOR ENSURING THE PROJECT SITE DOES NOT RESULT IN A DISCHARGE OF POLLUTANTS OFF-SITE. REGARDLESS OF THE CHANCES OF PRECIPITATION, THE CONTRACTOR SHALL ALLOW ADEQUATE TIME TO PROPERLY INSTALL ALL REQUIRED BMPS PRIOR TO PRECIPITATION.

DISTURBED SOIL AREAS SHALL BE CONSIDERED ACTIVE WHenever THE SOIL DISTURBING ACTIVITIES HAVE OCCURRED, CONTINUE TO OCCUR OR WILL OCCUR DURING THE ENSUING 14 DAYS. NON-ACTIVE AREAS SHALL BE STABILIZED WITH WATER POLLUTION CONTROL PRACTICES WITHIN 14 DAYS OF CESSION OF SOIL DISTURBING ACTIVITIES OR PRIOR TO THE ONSET OF PRECIPITATION, WHICHEVER OCCURS FIRST.

4. MAINTENANCE

TO ENSURE THE PROPER IMPLEMENTATION AND FUNCTION OF WATER POLLUTION CONTROL PRACTICES, ALL BMPS SHALL BE INSPECTED AND MAINTAINED REGULARLY. THE CONSTRUCTION SITE SHALL BE INSPECTED AS FOLLOWS:

a. PRIOR TO A FORECAST STORM.

b. AFTER A PRECIPITATION EVENT WHICH CAUSES SITE RUNOFF.

c. AT 24 HOUR INTERVALS DURING EXTENDED PRECIPITATION EVENTS.

d. ROUTINELY, A MINIMUM OF ONCE EVERY WEEK.

e. QUARTERLY, AS REQUIRED BY THE PERMIT.

A STORM WATER QUALITY CONSTRUCTION SITE INSPECTION CHECKLIST SHALL BE USED AS APPROVED BY THE CITY. ONE COPY OF EACH SITE INSPECTION RECORD SHALL BE SUBMITTED TO THE CITY WITHIN 48 HOURS OF COMPLETING THE INSPECTION.

5. REPORT OF DISCHARGES, NOTICES OR ORDERS

IF DISCHARGES FROM THE PROJECT SITE ARE IDENTIFIED, REGARDLESS OF SOURCE, IN A MANNER CAUSING, OR POTENTIALLY CAUSING, A CONDITION OF POLLUTION IN SURFACE WATERS OR DRAINAGE SYSTEMS, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE CITY. IN ADDITION, THE CONTRACTOR SHALL SUBMIT A WRITTEN NOTICE OF DISCHARGE REPORT TO THE CITY WITHIN 24 HOURS OF THE DISCHARGE EVENT. THE REPORT SHALL INCLUDE THE FOLLOWING INFORMATION:

a. THE DATE, TIME, LOCATION, NATURE OF THE OPERATION, AND TYPE OF DISCHARGE, INCLUDING THE CAUSE OR NATURE OF THE NOTICE OR ORDER.

b. THE WATER POLLUTION CONTROL PRACTICES DEPLOYED BEFORE THE DISCHARGE EVENT.

c. THE DATE OF DEPLOYMENT AND TYPE OF WATER POLLUTION CONTROL PRACTICES DEPLOYED AFTER THE DISCHARGE EVENT, INCLUDING ADDITIONAL MEASURES INSTALLED OR PLANNED TO REMEDIATE AND CLEAN-UP THE DISCHARGE, AND/OR REDUCE OR PREVENT REOCURRENCE.

d. AN IMPLEMENTATION AND MAINTENANCE SCHEDULE FOR AFFECTED WATER POLLUTION CONTROL PRACTICES.

6. REPORT OF FIRST-TIME NON-STORM WATER DISCHARGE

THE CITY SHALL BE NOTIFIED AT LEAST 3 DAYS IN ADVANCE OF FIRST-TIME NON-STORM WATER DISCHARGE EVENTS, SUCH AS PIPELINE DEWATERING, EXCLUDING EXEMPTED DISCHARGES. CHLORINATED WATER SHALL NOT BE ALLOWED TO ENTER THE STORM DRAIN SYSTEM UNLESS APPROVED BY THE CITY. THE CITY SHALL BE NOTIFIED OF THE OPERATIONS CAUSING NON-STORM WATER DISCHARGES AND SHALL OBTAIN FIELD APPROVAL FOR FIRST-TIME NON-STORM WATER DISCHARGES. NON-STORM WATER DISCHARGES SHALL BE MONITORED AT FIRST-TIME OCCURRENCES AND ROUTINELY THEREAFTER.

IF A WRITTEN NOTICE, ORDER, OR OTHER NON-COMPLIANCE ACTION LETTER FROM A REGULATORY AGENCY IS RECEIVED AS A RESULT OF STORM WATER OR OTHER DISCHARGES FROM THE PROJECT SITE, THE CITY SHALL BE NOTIFIED IMMEDIATELY. THE PROJECT OWNER AND/OR CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR RESPONDING TO AND COMPLYING WITH THE NOTICE, ORDER, OR ACTION LETTER, UNLESS OTHERWISE DIRECTED BY THE CITY.
EROSION CONTROL

EROSION CONTROL CONSISTS OF APPLYING EROSION CONTROL MATERIALS TO THE AREAS SHOWN ON THE PLANS, EMBANKMENT, EXCAVATION SLOPES AND OTHER AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AS SHOWN ON THE WATER POLLUTION CONTROL PLAN OR THE STORMWATER POLLUTION PREVENTION PLAN, AND AS DIRECTED BY THE ENGINEER. EROSION CONTROL PER PAGE 700.00 SHALL BE APPLIED AFTER TOPSOIL PLACEMENT.

EROSION CONTROL IS TO BE PLACED BETWEEN SEPTEMBER 1st AND MARCH 15th. AREAS COMPLETED AND READY FOR APPLICATION OF EROSION CONTROL OUTSIDE OF THESE DATES SHALL BE TEMPORARILY STABILIZED UNTIL THE ACCEPTABLE WINDOW BEGINS, OR AS DIRECTED BY THE ENGINEER. AREAS MAY BE TEMPORARILY STABILIZED USING SOIL BINDERS, TEMPORARY SEED AND STRAW, OR JUST STRAW. PRIOR TO APPLICATION OF PERMANENT SEED, AREAS TEMPORARILY STABILIZED USING SOIL BINDERS MUST BE SCARIFIED BY TRACK WALKING OR OTHER MEANS TO BREAK UP CRUSTED SOILS. IF AREAS WERE TEMPORARILY STABILIZED USING SEED AND STRAW OR JUST STRAW, THE STRAW AND THICK VEGETATION MUST BE REMOVED AND SOILS SCARIFIED PRIOR TO APPLICATION OF PERMANENT SEED. TOPSOIL SHALL BE PLACED IN THOSE AREAS TO RECEIVE PERMANENT STABILIZATION PRIOR TO APPLICATION OF PERMANENT SEED, OR AS DIRECTED BY THE ENGINEER.

EROSION CONTROL MATERIALS SHALL CONSIST OF SEED, FERTILIZER, STRAW, FIBER, AND TACKIFIER.

1. SEED

SEED IS REQUIRED TO BE LABELED UNDER THE CALIFORNIA FOOD AND AGRICULTURAL CODE AND SHALL BE LABELED BY THE VENDORS SUPPLYING THE SEED. SEED SHALL HAVE BEEN TESTED FOR PURITY AND GERMINATION NOT MORE THAN 12 MONTHS PRIOR TO THE APPLICATION OF THE SEED. SEED LABELS FURNISHED BY THE VENDORS SHALL INDICATE THE PURITY, GERMINATION AND PURE LIVE SEED (PLS) AS DETERMINED BY TESTING. RESULTS FROM TESTING THE SEED FOR PURITY AND GERMINATION SHALL BE FURNISHED TO THE CITY PRIOR TO APPLYING SEED.

SEED SHALL BE DELIVERED TO THE JOB SITE IN UNOPENED SEPARATE CONTAINERS WITH THE SEED TAG ATTACHED. CONTAINERS WITHOUT A SEED TAG WILL NOT BE ACCEPTED.

SEED FOR EROSION CONTROL WORK SHALL CONSIST OF THE FOLLOWING:

A. TEMPORARY

SEED FOR TEMPORARY EROSION CONTROL WORK SHALL CONSIST OF THE FOLLOWING MIX:

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<th>SPECIES</th>
<th>LBS. PLS/ACRE</th>
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</thead>
<tbody>
<tr>
<td>HORDEUM VULGARE</td>
<td>250</td>
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B. PERMANENT

SEED FOR PERMANENT EROSION CONTROL WORK SHALL CONSIST OF THE FOLLOWING MIX:

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<tr>
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<td>hordeum vulgare</td>
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</table>
2. FERTILIZER

Fertilizer shall consist of a natural based product with a slow release formulation of 7-2-3 (N-P-K). 10 percent sulfur is optional, or as approved by the city. Fertilizer for erosion control work shall conform to the requirements of the California Food and Agricultural Code, shall be in pelleted or granular form for hydroseeding, and shall have a minimum guaranteed chemical analysis of 7 percent nitrogen, 2 percent phosphoric acid, 3 percent water soluble potash, and 10 percent sulfur. Fertilizer shall be a formulation suitable for hydroseeding purposes and soluble in water.

3. STRAW

Straw for erosion control work shall be sterile upland straw, dry oat, wheat, or rice straw, free from weeds and foreign matter detrimental to plant life. Evidence shall be furnished that clearance has been obtained from the County Agricultural Commissioner, as required by law, before straw obtained from outside the County is delivered to the site of the work. Straw that has been used for stable bedding shall not be used. Hay or chopped cornstalks are not acceptable. Straw shall be chopped and uniformly applied at a rate specified in this section.

4. FIBER

Fiber must be wood fiber, cellulose fiber, alternate fiber, or a combination of these fibers.

- Wood fiber must be a long strand, whole wood fiber thermomechanically processed from clean whole wood chips.
- Cellulose fiber must be made from natural or recycled pulp fiber, such as wood chips, sawdust, newsprint, chipboard, corrugated cardboard, or a combination of these materials.
- Alternate fiber must be a long strand, whole natural fiber made from clean straw, cotton, corn, or other natural feed stock.

Fiber must:

4.1 Disperse into a uniform slurry when mixed with water.
4.2 Contain 3/4-inch fiber strands for at least 25 percent by total volume.
4.3 Have at least 40 percent retained when passed through a No. 25 sieve.
4.4 Have an initial moisture content of no more than 15 percent of its dry weight when tested under CA Test 226. The moisture content must be marked on the packaging.
4.5 Have a water holding capacity, by weight, of at least 1,200 percent when tested under the procedure designated in the Department's final report, CA-DOT-TL-2176-1-76-36, "Water Holding Capacity for Hydromulch," available from METS.
4.6 Be nontoxic to plants and animal life.
4.7 Be free of synthetic or plastic materials, lead paint, printing ink, varnish, petroleum products, seed germination inhibitors, and chlorine bleach.
4.8 Contain less than 250 parts per million of boron.
4.9 Contain less than 7 percent ash when tested under technical association of the pulp and paper industry, TAPPI Standard T 413.
4.10 Be colored to contrast with the area on which the fiber is to be applied. The coloring agent must be biodegradable, nontoxic, and free from copper, mercury and arsenic and must not stain concrete or painted surfaces.

Fiber for temporary hydraulic mulch must be at least 50 percent wood fiber. The remaining percentage must be cellulose fiber, alternate fiber, or a combination.
5. TACKIFIER

TACKIFIER MUST BE:
1) FREE FROM GROWTH OR GERMINATION INHIBITING FACTORS
2) NONFLAMMABLE
3) NONTOXIC TO AQUATIC ORGANISMS
4) FUNCTIONAL FOR A MINIMUM OF 180 DAYS

GENERAL PURPOSE TACKIFIER MAY BE EITHER A PLANT BASED PRODUCT OR A POLYMERIC EMULSION BLEND AS FOLLOWS:

1) PLANT BASED TACKIFIER MUST BE A NATURAL HIGH MOLECULAR WEIGHT POLYSACCHARIDE, A HIGH VISCOSITY HYDROCOLLOID THAT IS MISCIBLE IN WATER, AND LABELED AS EITHER GUAR, PSYLLIUM, OR STARCH, AS FOLLOWS:
   1.1 GUAR GUM BASED PRODUCT MUST BE DERIVED FROM THE GROUND ENDOSPERM OF THE GUAR PLANT, CYANOMOPSIS TETRAGONOLOBUS. IT MUST BE TREATED WITH DISPERGING AGENTS FOR EASY MIXING. IT MUST BE ABLE TO BE DILUTED AT THE RATE OF 1 TO 5 POUNDS PER 100 GALLONS OF WATER.
   1.2 PSYLLIUM BASED PRODUCT MUST BE MANUFACTURED FROM THE FINELY GROUND, MUCILLOID COATING OF PLANTAGO OVATA OR PLANTAGO ISPACHULA SEEDS AND ABLE TO DRY AND FORM A FIRM BUT REWETTABLE MEMBRANE.
   1.3 STARCH BASED PRODUCT MUST BE A NONIONIC, WATER-SOLUBLE, GRANULAR MATERIAL DERIVED FROM CORN, POTATO, OR OTHER PLANT-BASED SOURCE.
2) POLYMERIC EMULSION BLEND TACKIFIER MUST BE A PREPACKAGED LIQUID OR DRY POWDER, ANIONIC FORMULATION WITH A RESIDUAL MONOMER CONTENT NOT EXCEEDING 0.05 PERCENT BY WEIGHT. THE TACKIFIER MUST CONTAIN AND BE LABELED WITH ONE OF THE FOLLOWING AS THE PRIMARY ACTIVE INGREDIENTS:
   2.1 ACRYLIC COPOLYMERS AND POLYMERS.
   2.2 POLYMERS OF METHACRYLATES AND ACRYLATES.
   2.3 COPOLYMERS OF SODIUM ACRYLATES AND ACRYLAMIDES.
   2.4 POLYACRYLAMIDE AND COPOLYMER OF ACRYLAMIDE.
   2.5 HYDROCOLLOID POLYMERS.

SEQUENCE OF APPLICATION

EROSION CONTROL MATERIALS SHALL BE APPLIED IN SEPARATE APPLICATIONS IN THE FOLLOWING SEQUENCE:

A. THE FOLLOWING SEED AND FERTILIZER MIXTURE SHALL BE APPLIED WITH HYDRO-SEEDING EQUIPMENT WITHIN 30 MINUTES AFTER THE SEED HAS BEEN ADDED TO THE MIXTURE:

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>TEMPORARY POUNDS PER ACRE (MINIMUM)</th>
<th>PERMANENT POUNDS PER ACRE (MINIMUM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEED</td>
<td>250</td>
<td>130</td>
</tr>
<tr>
<td>COMMERCIAL FERTILIZER</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>FIBER</td>
<td>200</td>
<td>200</td>
</tr>
</tbody>
</table>

B. STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE, OR 2.5 TONS PER ACRE FOR SLOPES GREATER THAN OR EQUAL TO 4% SLOPE, BASED ON SLOPE MEASUREMENTS. INCORPORATION OF STRAW WILL NOT BE REQUIRED. STRAW SHALL BE DISTRIBUTED EVENLY WITHOUT CLUMPING OR PILING. WHEN WEATHER CONDITIONS ARE SUITABLE, STRAW MAY BE PNEUMATICALLY SPREAD.
C. THE FOLLOWING MIXTURE IN THE RATES INDICATED SHALL BE APPLIED WITH HYDRO-SEEDING EQUIPMENT:

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>TEMPORARY POUNDS PER ACRE (MINIMUM)</th>
<th>PERMANENT POUNDS PER ACRE (MINIMUM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIBER</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>TACKIFIER</td>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>

THE RATIO OF TOTAL WATER TO TOTAL TACKIFIER IN THE MIXTURE SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

ONCE SEED IS APPLIED IN AN AREA, STRAW AND TACKIFIER APPLICATIONS SHALL BE COMPLETED IN THAT AREA ON THE SAME WORKING DAY.

THE RATES OF EROSION CONTROL MATERIALS MAY BE CHANGED BY THE CITY TO MEET FIELD CONDITIONS. EROSION CONTROL WILL BE MEASURED BY THE SQUARE YARD OR ACRE.