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 Engineering Review
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 Elizabeth Nijkamp, PE
 EPC Department of Public Works

EL PASO COUNTY STORMWATER MANAGEMENT PLAN CHECKLIST

EPC Project Number:

Revised: October 2021

		Applicant	EPC
1. STORMWATER MANAGEMENT PLAN (in the "Applicant" column specify the page number for each item)			
1	Applicant (owner/designated operator), SWMP Preparer, Qualified Stormwater Manager, and Contractor Information. (On cover/title sheet)		
2	Table of Contents		
3	Site description and location to include: vicinity map with nearest street/crossroads description		
4	Narrative description of construction activities proposed (e.g., may include clearing and grubbing, temporary stabilization, road grading, utility / storm installation, final grading, final stabilization, and removal of temporary control measures)		
5	Phasing plan – may require separate drawings indicating initial, interim, and final site phases for larger projects. Provide "living maps" that can be revised in the field as conditions dictate		
6	Proposed sequence for major activities: Provide a construction schedule of anticipated starting and completion dates for each stage of land-disturbing activity depicting conservation measures anticipated, including the expected date on which the final stabilization will be completed		
7	Estimates of the total site area and area to undergo disturbance; current area of disturbance must be updated on the SWMP as changes occur		
8	Soil erosion potential and impacts on discharge that includes a summary of the data used to determine soil erosion potential		
9	A description of existing vegetation at the site and percent ground cover and method used to determine ground cover		
10	Location and description of all potential pollution sources including but not limited to: disturbed and stored soils; vehicle tracking; management of contaminated soils; loading and unloading operations; outdoor storage of materials; vehicle and equipment maintenance and fueling; significant dust generating process; routine maintenance activities involving fertilizers, pesticides, herbicides, detergents, fuels, solvents, oils, etc.; on-site waste management; concrete truck/equipment washing; dedicated asphalt, concrete batch plants and masonry mixing stations; non-industrial waste such as trash and portable toilets		
11	Material handling to include spill prevention and response plan and procedures		
12	Spill prevention and pollution controls for dedicated batch plants		
13	Other SW pollutant control measures to include waste disposal and off-site soil tracking		
14	Location and description of any anticipated allowable non-stormwater discharge (ground water, springs, irrigation, discharge covered by CDPHE Low Risk Guidance, etc.)		
15	Name(s) of ultimate receiving waters; size, type and location of stormwater outfall or storm sewer system discharge		
16	Description of all stream crossings located within the project area or statement that no streams cross the project area		



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17	SWMP Map to include:		
17a	construction site boundaries	✓	✓
17b	flow arrows to depict stormwater flow directions	✓	✓
17c	all areas of disturbance	✓	✓
17d	areas of cut and fill	✓	✓
17e	areas used for storage of building materials, soils (stockpiles) or wastes	✓	✓
17f	location of any dedicated asphalt / concrete batch plants	✓	✓
17g	location of all structural control measures	✓	✓
17h	location of all non-structural control measures	✓	✓
17i	springs, streams, wetlands and other surface waters, including areas that require maintenance of pre-existing vegetation within 50 feet of a receiving water	✓	✓
18	Narrative description of all structural control measures to be used. Modifications to EPC standard control measures must meet or exceed County-approved details	✓	✓
19	Description of all non-structural control measures to be used including seeding, mulching, protection of existing vegetation, site watering, sod placement, etc.	✓	✓
20	Technical drawing details for all control measure installation and maintenance; custom or other jurisdiction's details used must meet or exceed EPC standards	✓	✓
21	Procedure describing how the SWMP is to be revised	✓	✓
22	Description of Final Stabilization and Long-term Stormwater Quality (describe nonstructural and structural measures to control SW pollutants after construction operations have been completed, including detention, water quality control measure etc.)	✓	✓
23	Specification that final vegetative cover density is to be 70% of pre-disturbed levels	✓	✓
24	Outline of permit holder inspection procedures to install, maintain, and effectively operate control measures to manage erosion and sediment	✓	✓
25	Record keeping procedures identified to include signature on inspection logs and location of SWMP records on-site	✓	✓
26	If this project relies on control measures owned or operated by another entity, a documented agreement must be included in the SWMP that identifies location, installation and design specifications, and maintenance requirements and responsibility of the control measure(s)	✓	✓
	Please note: all items above must be addressed. If not applicable, explain why, simply identifying "not applicable" will not satisfy CDPHE requirement of explanation.		
2. ADDITIONAL REPORTS/PERMITS/DOCUMENTS			
a	Grading and Erosion Control Plan (signed)	✓	
b	Erosion and Stormwater Quality Control Permit (ESQCP) (signed)	✓	



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		Applicant	EPC
3. APPLICANT COMMENTS			
a			
b			
c			
4. CHECKLIST REVIEW CERTIFICATIONS			
a	<p>Applicant: The Stormwater Management Plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said Plan has been prepared according to the criteria established by the County and State for Stormwater Management Plans.</p> <p>_____ Engineer of Record and/or Qualified Stormwater Manager Signature</p> <p style="text-align: right;">_____ Date</p>		
b	<p>Review Engineer: The Stormwater Management Plan was reviewed and found to meet the checklist requirements except where otherwise noted or allowed by an approved deviation request.</p> <p style="text-align: center;"><u>Engineering Review</u></p> <p style="text-align: center;"><i>01/04/2023 2:24:36 PM</i></p> <p style="text-align: center;"><i>Christina Prete</i></p> <p>_____ Review Engineer</p> <p style="text-align: right;">_____ Date</p>		

EPC Department of Public Works

SWMP Content Checklist - Stormwater Discharges Associated with Construction Activity (COR400000)

PART I.C.2.a...	Yes	No	
i) Qualified Stormwater Manager - Does the SWMP list individual(s) by title and name who are designated as the site's qualified stormwater manager(s) responsible for implementing the SWMP in its entirety?	✓		
ii) Spill Prevention and Response Plan - Does the SWMP have a spill prevention and response plan?	✓		
iii) Materials Handling - Does the SWMP describe and locate all control measures implemented at the site to minimize impacts from handling significant materials that could contribute pollutants to runoff	✓		
iv) Potential Sources of Pollution - Does the SWMP list all potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharges associated with construction activity from the site. This shall include, but is not limited to, the following pollutant sources:	✓		
a) disturbed and stored soils		✓	
b) vehicle tracking of sediments		✓	
c) management of contaminated soils		✓	
d) loading and unloading operations		✓	
e) outdoor storage activities (erodible building materials, fertilizers, chemicals, etc.)		✓	
f) vehicle and equipment maintenance and fueling		✓	
g) significant dust or particulate generating processes (e.g., saw cutting material, including dust)		✓	
h) routine maintenance activities involving fertilizers, pesticides, herbicides, detergents, fuels, solvents, oils, etc.		✓	
i) on-site waste management practices (waste piles, liquid wastes, dumpsters)		✓	
j) concrete truck/equipment washing, including washing of the concrete truck chute and associated fixtures and equipment		✓	
k) dedicated asphalt, concrete batch plants and masonry mixing stations		✓	
l) non-industrial waste sources such as worker trash and portable toilets		✓	
vi) Implementation of Control Measures - Does the SWMP include design specifications that contain information on the implementation of the control measure in accordance with good engineering hydrologic and pollution control practices; including as applicable drawings, dimensions, installation information, materials, implementation processes, control measure-specific inspection expectations, and maintenance requirements.	✓		
Notes:			

SWMP Content Checklist - Stormwater Discharges Associated with Construction Activity (COR400000)

	Yes	No
vi) Site Description - Does the SWMP include a site description which includes, at a minimum, the following:		
a) the nature of the construction activity at the site		
b) the proposed schedule for the sequence for major construction activities and the planned implementation of control measures for each phase. (e.g.: clearing, grading, utilities, vertical, etc.)		
c) estimates of the total acreage of the site, and the acreage expected to be disturbed by clearing, excavation, grading, or any other construction activities		
d) a summary of any existing data used in the development of the construction site plans or SWMP that describe the soil or existing potential for soil erosion		
e) a description of the percent of existing vegetative ground cover relative to the entire site and the method for determining the percentage		
f) a description of any allowable non-stormwater discharges at the site, including those being discharged under a division low risk discharge guidance policy		
g) a description of areas receiving discharge from the site. Including a description of the immediate source receiving the discharge. If the stormwater discharge is to a municipal separate storm sewer system, the name of the entity owning that system, the location of the storm sewer discharge, and the ultimate receiving water(s)		
h) a description of all stream crossings located within the construction site boundary		
Notes:		

SWMP Content Checklist - Stormwater Discharges Associated with Construction Activity (COR400000)

	Yes	No
vii) Site Map - Does the SWMP include a site map which includes, at a minimum, the following:		
a) construction site boundaries		
b) flow arrows that depict stormwater flow directions on-site and runoff direction		
c) all areas of ground disturbance including areas of borrow and fill		
d) areas used for storage of soil		
e) locations of all waste accumulation areas, including areas for liquid, concrete, masonry, and asphalt		
f) locations of dedicated asphalt, concrete batch plants and masonry mixing stations		
g) locations of all structural control measures		
h) locations of all non-structural control measures		
i) locations of springs, streams, wetlands and other state waters, including areas that require pre-existing vegetation be maintained within 50 feet of a receiving water, where determined feasible in accordance with Part I.B.1.a.i.(d)		
j) locations of all stream crossings located within the construction site boundary		
viii) Final Stabilization and Long Term Stormwater Management - Does the SWMP describe the practices used to achieve final stabilization of all disturbed areas at the site and any planned practices to control pollutants in stormwater discharges that will occur after construction operations are completed. Including but not limited to, detention/retention ponds, rain gardens, stormwater vaults, etc		

Notes:

SWMP Content Checklist - Stormwater Discharges Associated with Construction Activity (COR400000)

	Yes	No
ix) Inspection Reports - Does the SWMP include documented inspection reports in accordance with Part I.D. of the permit?		✓
a) Is the inspector a qualified stormwater manager?	✓	
b) Do the inspection records meet the minimum required inspection frequency identified on the inspection reports? <ul style="list-style-type: none"> • What minimum inspection frequency is being implemented at the site? • Is a reduced inspection frequency being implemented? 	✓	
c) Were the following areas inspected for evidence of, or the potential for, pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters:	✓	
1) Construction site perimeter	✓	
2) All disturbed areas	✓	
3) Designated haul routes	✓	
4) Material and waste storage areas exposed to precipitation	✓	
5) Locations where stormwater has the potential to discharge offsite	✓	
6) Locations where vehicles exit the site	✓	
d) Do the inspection records include the following requirements:	✓	
1) Visually verify whether all implemented control measures are in effective operational condition and are working as designed in their specifications to minimize pollutant discharges	✓	
2) Determine if there are new potential sources of pollutants	✓	
3) Assess the adequacy of control measures at the site to identify areas requiring new or modified control measures to minimize pollutant discharges	✓	
4) Identify all areas of non-compliance with the permit requirements and, if necessary, implement corrective action as described below	✓	
e) Do the inspection reports include, at a minimum, the following items:	✓	
1) The inspection date	✓	
2) Name(s) and title(s) of personnel conducting the inspection	✓	
3) Weather conditions at the time of inspection	✓	
4) Phase of construction at the time of inspection	✓	
5) Estimated acreage of disturbance at the time of inspection	✓	
6) Location(s) of discharges of sediment or other pollutants from the site	✓	
7) Location(s) of control measures requiring routine maintenance (see Section VI)	✓	
8) Location(s) and identification of inadequate control measures and requiring corrective actions (see Section VII)	✓	
9) Location(s) and identification of additional control measures are needed that were not in place at the time of inspection	✓	
10) Description of the minimum inspection frequency and any deviations from the minimum inspection schedule	✓	
11) After adequate corrective action(s) and maintenance have been taken, or where a report does not identify any incidents requiring corrective action or maintenance, the report shall contain the following statement: "I verify that, to the best of my knowledge and belief, all corrective action and maintenance items identified during the inspection are complete, and the site is currently in compliance with the permit."	✓	

Notes: