This section must be completed where earth disturbance activities will be conducted in special protection or siltation-impaired watersheds.

Part 1 NONDISCHARGE ALTERNATIVES EVALUATION

- Minimize accelerated erosion and sedimentation during the earth disturbance activity
- Achieve no net change from pre-development to post-development volume, rate and concentration of pollutants in water quality

E & S Plan	Official Use Only	PCSM/Site Restoration Plan	Official Use Only
Check off the environmentally sound nondischarge Best Management Practices (BMPs) listed below to be used prior to, during, and after earth disturbance activities that have been incorporated into your E & S Plan based on your site analysis. For non- discharge BMPs not checked, provide an explanation of why they were not utilized. Also for BMPs checked, provide an explanation of why they were utilized. (Provide your analysis and attach additional sheets if necessary).		Check off the environmentally sound nondischarge Best Management Practices (BMPs) listed below to be used after construction that have been incorporated into your PCSM/SR Plan based on your site analysis. For non-discharge BMPs not checked, provide an explanation of why they were not utilized. Also for BMPs checked, provide an explanation of why they were utilized. (Provide your analysis and attach additional sheets if necessary) The best possible surface site locations were	
The best possible surface locations were selected based on landowner agreements, minimization of environmental impacts, and engineering/ constructability factors. The project's disturbed area will be limited to the area required for construction, and the duration of construction will be minimized to the extent practicable. Riparian forest buffers will be protected to the extent practicable during construction activities in the vicinity of stream crossings, where applicable. Surface sites were co-located with existing facilities where possible.		selected based on landowner agreements, minimization of environmental impacts, and engineering/constructability factors. The surface site will be restored to a meadow condition at approximate original contours, where possible, to maintain the pre-construction drainage patterns. Riparian forest buffers will be protected to the extent practicable, where applicable. Install geoweb topsoil reinforcement to promote infiltration and minimize compaction.	
Nondischarge BMPs ☐ Alternative Siting ☐ Alternative location ☐ Alternative configuration ☐ Alternative location of discharge ☑ Limited Disturbed Area ☑ Limiting Extent & Duration of Disturbance (Phasing, Sequencing) ☐ Riparian Buffers (150 ft. min.) ☑ Other Co-locate with existing facilities where possible		Nondischarge BMPs Alternative Siting Alternative location Alternative configuration Alternative location of discharge Low Impact Development (LID / BSD) Riparian Buffers (150 ft. min.) Riparian Forest Buffer (150 ft. min.) Infiltration Water Reuse Other Pre-construction drainage pattern intact where possible. Use geoweb to minimize compaction	
Will the non-discharge alternative BMPs eli construction?	iminate the r	net change in rate, volume and quality durin	ig and after
If yes, antidegradation analysis is complete.			

PART 2 ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES (ABACT)

E & S Plan	Official Use Only	PCSM/Site Restoration Plan	Official Use Only
 Treatment BMPs: 		 Treatment BMPs: Infiltration Practices Wet ponds Created wetland treatment systems Vegetated swales Manufactured devices Bio-retention/infiltration Green Roofs Land disposal: Vegetated filters Riparian Buffers <150ft. Disconnection of roof drainage Bio-retention/bio-infiltration Street sweeping Nutrient, pesticide, herbicide or other chemical application plan alternatives PPC Plans Non-structural Practices Restoration BMPs Stormwater reuse technologies: Divert rainwater into impoundment Underground storage Spray/Drip Irrigation 	

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Part 1 NONDISCHARGE ALTERNATIVES EVALUATION

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If yes, antidegradation analysis is complete. If no, proceed to Part 2.			

E & S Plan	Official Use Only	PCSM/Site Restoration Plan	Official Use Only
 ☐ Treatment BMPs: ☐ Sediment basin with skimmer ☐ Sediment basin ratio of 4:1 or greater (flow length to basin width) ☐ Sediment basin with 4-7 day detention ☐ Flocculants ☐ Compost Filter Socks ☐ Compost Filter Sock Sediment Basin ☑ RCE w/ Wash Rack ☑ Land disposal: ☐ Vegetated filters ☐ Riparian buffers <150ft. ☐ Immediate stabilization ☑ Pollution prevention: ☑ PPC Plans ☐ Street sweeping ☑ Channels, collectors and diversions lined with permanent vegetation, rock, geotextile or other non-erosive materials ☑ Stormwater reuse technologies: ☐ Sediment basin water for dust control ☐ Sediment basin water for irrigation 		Infiltration Practices □ Infiltration Practices □ Wet ponds □ Created wetland treatment systems ○ Vegetated swales □ Manufactured devices ○ Bio-retention/infiltration □ Green Roofs □ Land disposal: □ Vegetated filters □ Riparian Buffers <150ft.	

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construction? ☐ Yes ⊠ No			
If yes, antidegradation analysis is complete.		2_	

E & S Plan	Official Use Only	PCSM/Site Restoration Plan	Official Use Only
Image: Sectiment BMPs: Image: Sectiment basin with skimmer Image: Sectiment basin with skimmer Image: Sectiment basin with 4-7 day detention Image: Sectiment basin Image: Sectiment basin Image: Sectiment basin Image: Sectiment basin water for diversions Indicate stabilization Image: Sectiment basin water for diversions Indicate stabilization Image: Street sweeping Image: Stormwater reuse technologies: Image: Sectiment basin water for dust control Image: Sectiment basin water for irrigation Image: Sectiment basin water for irrigation </td <td></td> <td> Treatment BMPs: Infiltration Practices Wet ponds Created wetland treatment systems Vegetated swales Manufactured devices Bio-retention/infiltration Green Roofs Land disposal: Vegetated filters Riparian Buffers <150ft. Disconnection of roof drainage Bio-retention/bio-infiltration Street sweeping Nutrient, pesticide, herbicide or other chemical application plan alternatives PPC Plans Non-structural Practices Restoration BMPs Stormwater reuse technologies: Divert rainwater into impoundment Underground storage Spray/Drip Irrigation </td> <td></td>		 Treatment BMPs: Infiltration Practices Wet ponds Created wetland treatment systems Vegetated swales Manufactured devices Bio-retention/infiltration Green Roofs Land disposal: Vegetated filters Riparian Buffers <150ft. Disconnection of roof drainage Bio-retention/bio-infiltration Street sweeping Nutrient, pesticide, herbicide or other chemical application plan alternatives PPC Plans Non-structural Practices Restoration BMPs Stormwater reuse technologies: Divert rainwater into impoundment Underground storage Spray/Drip Irrigation 	

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construction? ☐ Yes ⊠ No			
If yes, antidegradation analysis is complete.		2_	

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Image: Sectiment BMPs: Image: Sectiment basin with skimmer Image: Sectiment basin with skimmer Image: Sectiment basin with 4-7 day detention Image: Sectiment basin Image: Sectiment basin Image: Sectiment basin Image: Sectiment basin water for diversions Indicate stabilization Image: Sectiment basin water for diversions Indicate stabilization Image: Street sweeping Image: Stormwater reuse technologies: Image: Sectiment basin water for dust control Image: Sectiment basin water for irrigation Image: Sectiment basin water for irrigation </td <td></td> <td> Treatment BMPs: Infiltration Practices Wet ponds Created wetland treatment systems Vegetated swales Manufactured devices Bio-retention/infiltration Green Roofs Land disposal: Vegetated filters Riparian Buffers <150ft. Disconnection of roof drainage Bio-retention/bio-infiltration Street sweeping Nutrient, pesticide, herbicide or other chemical application plan alternatives PPC Plans Non-structural Practices Restoration BMPs Stormwater reuse technologies: Divert rainwater into impoundment Underground storage Spray/Drip Irrigation </td> <td></td>		 Treatment BMPs: Infiltration Practices Wet ponds Created wetland treatment systems Vegetated swales Manufactured devices Bio-retention/infiltration Green Roofs Land disposal: Vegetated filters Riparian Buffers <150ft. Disconnection of roof drainage Bio-retention/bio-infiltration Street sweeping Nutrient, pesticide, herbicide or other chemical application plan alternatives PPC Plans Non-structural Practices Restoration BMPs Stormwater reuse technologies: Divert rainwater into impoundment Underground storage Spray/Drip Irrigation 	

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PART 2 ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES (ABACT)

E & S Plan	Official Use Only	PCSM/Site Restoration Plan	Official Use Only
Image: Sectiment BMPs: □ Sediment basin with skimmer □ Sediment basin ratio of 4:1 or gray (flow length to basin width) □ Sediment basin with 4-7 day det □ Flocculants □ Compost Filter Socks □ Compost Filter Sock Sediment E □ RCE w/ Wash Rack □ Vegetated filters □ Riparian buffers <150ft.	ention Basin	 Treatment BMPs: Infiltration Practices Wet ponds Created wetland treatment systems Vegetated swales Manufactured devices Bio-retention/infiltration Green Roofs Land disposal: Vegetated filters Riparian Buffers <150ft. Disconnection of roof drainage Bio-retention/bio-infiltration Street sweeping Nutrient, pesticide, herbicide or other chemical application plan alternatives 	
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Imiting disturbance to construction areas only Limiting E&D of disturbance - Nature of construction limits use of this alternative Riparian buffers - No buffer available		Low Impact Development - Nature of construction limits use of this alternative Riparian Buffers - No buffer available	
Riparian Forest Buffer - No buffer available		Riparian Forest Buffer - No buffer available Infiltration - Space available, rates poor so underdrains used	
		Water Reuse - Nature of construction limits use of this alternative	
Nondischarge BMPs Alternative Siting Alternative location Alternative location Alternative location of discharge Limited Disturbed Area Limiting Extent & Duration of Disturbance (Phasing, Sequencing) Riparian Buffers (150 ft. min.) Riparian Forest Buffer (150 ft. min.) Other		Nondischarge BMPs Alternative Siting Alternative location Alternative configuration Alternative location of discharge Low Impact Development (LID / BSD) Riparian Buffers (150 ft. min.) Riparian Forest Buffer (150 ft. min.) Infiltration Water Reuse Other	

If no, proceed to Part 2. PART 2 ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES (ABACT) If the net change in stormwater discharge from or after construction is not fully managed by nondischarge BMPs, th applicant must utilize ABACT BMPs to manage the difference. The Applicant must specify whether the discharge will be a non-degrading discharge. ABACT BMPs include but are not limited to: If the net change in stormwater discharge will be a non-degrading discharge. ABACT BMPs include but are not limited to: Official If no, proceed to Part 2. Infiltration Plan Official Use Official Vestigned Official Use Infiltration Plan Use Official Use Vestigned Official Vestigned Sediment basin vith skimmer Infiltration Practices Official Vestigned Sediment basin vith 4-7 day detention Vegetated swales Bio-retention/infiltration Ereen Roofs Compost Filter Socks Bio-retention/infiltration Vegetated filters Biparian Buffers <150ft. Riparian Buffers <150ft. Riparian Buffers <150ft. Biparian Buffers <150ft.	Will the non-discharge alternative BMPs elim construction?	inate the n	et change in rate, volume and quality during	and after
If the net change in stormwater discharge from or after construction is not fully managed by nondischarge BMPs, the applicant must utilize ABACT BMPs to manage the difference. The Applicant must specify whether the discharge will occur during construction, post-construction or both, and identify the technologies that will be used to ensure that the discharge will be a non-degrading discharge. ABACT BMPs include but are not limited to: Official Use only E & S Plan Official Use only PCSM/Site Restoration Plan Official Use only Image: Sediment basin with skimmer (flow length to basin with 4.7 day detention proceduants Sediment basin with 4.7 day detention proceed wetland treatment systems Infiltration Practices R CE w/ Wash Rack Manufactured devices Bio-retention/infiltration Pollution prevention: Vegetated filters Vegetated filters Riparian Forest Buffer <150ft.				
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E & S Plan Use Only PCSM/Site Restoration Plan Use Only Treatment BMPs: Sediment basin with skimmer Sediment basin with skimmer Sediment basin with skimmer Sediment basin with of 4:1 or greater (flow length to basin with) Infiltration Practices Sediment basin with 4-7 day detention Flocculants Wet ponds Created wetland treatment systems Sediment basin with 4-7 day detention Sediment basin with 4-7 day detention Sediment basin with 4-7 day detention Sediment basin with 4-7 day detention Sediment basin with 4-7 day detention Compost Filter Socks Sediment Basin Manufactured devices Sio-retention/infiltration Compost Filter Sock Sediment Basin Sediment basin with 4-7 day detention Sio-retention/infiltration Manufactured devices Bio-retention/infiltration Sio-retention/infiltration Vegetated filters Riparian Buffers <150ft.	applicant must utilize ABACT BMPs to manage occur during construction, post-construction or I	the differen both, and id	nce. The Applicant must specify whether the dis entify the technologies that will be used to ensu	charge will
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Other Other Underground storage Spray/Drip Irrigation Other	 Sediment basin with skimmer Sediment basin ratio of 4:1 or greater (flow length to basin width) Sediment basin with 4-7 day detention Flocculants Compost Filter Socks Compost Filter Sock Sediment Basin RCE w/ Wash Rack Land disposal: Vegetated filters Riparian buffers <150ft. Riparian Forest Buffer <150ft. Immediate stabilization PPC Plans Street sweeping Channels, collectors and diversions lined with permanent vegetation, rock, geotextile or other non-erosive materials Stormwater reuse technologies: Sediment basin water for dust control Sediment basin water for irrigation 	Citiy	 Infiltration Practices Wet ponds Created wetland treatment systems Vegetated swales Manufactured devices Bio-retention/infiltration Green Roofs Land disposal: Vegetated filters Riparian Buffers <150ft. Riparian Forest Buffer <150ft. Disconnection of roof drainage Bio-retention/bio-infiltration Pollution prevention: Street sweeping Nutrient, pesticide, herbicide or other chemical application plan alternatives PPC Plans Non-structural Practices Restoration BMPs Stormwater reuse technologies: Divert rainwater into impoundment Underground storage Spray/Drip Irrigation 	

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construction?	iminate the r	Nondischarge BMPs Alternative Siting Alternative location Alternative configuration Alternative location of discharge Low Impact Development (LID / BSD) Riparian Buffers (150 ft. min.) Riparian Forest Buffer (150 ft. min.) Infiltration Water Reuse Other re-construction drainage pattern intact within the right of way het change in rate, volume and quality during	ng and after
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Image: Sediment BMPs: □ Sediment basin with skimmer □ Sediment basin ratio of 4:1 or greater (flow length to basin width) □ Sediment basin with 4-7 day detention □ Flocculants □ Compost Filter Socks □ Compost Filter Socks □ Compost Filter Sock Sediment Basin ⊠ RCE w/ Wash Rack □ Land disposal: □ Vegetated filters □ Riparian buffers <150ft.		□ Treatment BMPs: □ Infiltration Practices □ Wet ponds □ Created wetland treatment systems □ Vegetated swales □ Manufactured devices □ Bio-retention/infiltration □ Green Roofs □ Land disposal: □ Vegetated filters □ Riparian Buffers <150ft.	
<u>streams</u>			

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	Use Only	Use Only PCSM/Site Restoration Plan Check off the environmentally sound nondischarge Best Management Practices (BMPs) listed below to be used after construction that have been incorporated into your PCSM/SR Plan based on your site analysis. For non-discharge BMPs not checked, provide an explanation of why they were not utilized. Also for BMPs checked, provide an explanation of why they were utilized. (Provide your analysis and attach additional sheets if necessary) The best possible pipeline route was selected based on landowner agreements, and minimization of environmental impacts, and engineering/constructibility factors. The pipeline right of way will be restored to a meadow condition at original contours to maintain the pre-construction drainage patterns. The site drains to a HQ-CWF watershed, so an infiltration berm and soil amendment areas will be used to manage stormwater and prevent an increase in runoff volume or rate. The runoff is managed so that it will not degrade the physical, chemical, or biological characteristics of the receiving stream. Nondischarge BMPs Alternative location Alternative location Alternative location of discharge Low Impact Development (LID / BSD) Riparian Buffers (150 ft. min.) Riparian Buffers (150 ft. min.) Militration Water Reuse Other re-construction drainage pattern

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Image: Sediment BMPs: □ Sediment basin with skimmer □ Sediment basin ratio of 4:1 or greater (flow length to basin width) □ Sediment basin with 4-7 day detention □ Flocculants □ Compost Filter Socks □ Compost Filter Sock Sediment Basin □ RCE w/ Wash Rack □ Land disposal: □ Vegetated filters □ Riparian buffers <150ft.		□ Treatment BMPs: □ Infiltration Practices □ Wet ponds □ Created wetland treatment systems □ Vegetated swales □ Manufactured devices □ Bio-retention/infiltration □ Green Roofs □ Land disposal: □ Vegetated filters □ Riparian Buffers <150ft.	

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Part 1 NONDISCHARGE ALTERNATIVES EVALUATION

- Minimize accelerated erosion and sedimentation during the earth disturbance activity
- Achieve no net change from pre-development to post-development volume, rate and concentration of pollutants in water quality

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Will the non-discharge alternative BMPs eliconstruction? □ Yes ⊠ No If yes, antidegradation analysis is complete. If no, proceed to Part 2.	iminate the r	iet change in rate, volume and quality durin	ig and atter

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 ☐ Treatment BMPs: ☐ Sediment basin with skimmer ☐ Sediment basin ratio of 4:1 or greater (flow length to basin width) ☐ Sediment basin with 4-7 day detention ☐ Flocculants ☐ Compost Filter Socks ☐ Compost Filter Sock Sediment Basin ☑ RCE w/ Wash Rack ☑ Land disposal: ☐ Vegetated filters ☐ Riparian buffers <150ft. ☐ Immediate stabilization ☑ Pollution prevention: ☑ PPC Plans ☐ Street sweeping ☑ Channels, collectors and diversions lined with permanent vegetation, rock, geotextile or other non-erosive materials ☑ Stormwater reuse technologies: ☐ Sediment basin water for dust control ☐ Sediment basin water for irrigation 		Image: Street sweeping □ Image: Street sweeping □	

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If yes, antidegradation analysis is complete.			

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construction? ☐ Yes ⊠ No			
If yes, antidegradation analysis is complete.		2_	

E & S Plan	Official Use Only	PCSM/Site Restoration Plan	Official Use Only
Image: Sectiment BMPs: Image: Sectiment basin with skimmer Image: Sectiment basin with skimmer Image: Sectiment basin with 4-7 day detention Image: Sectiment basin Image: Sectiment basin Image: Sectiment basin Image: Sectiment basin water for diversions Indicate stabilization Image: Sectiment basin water for diversions Indicate stabilization Image: Street sweeping Image: Stormwater reuse technologies: Image: Sectiment basin water for dust control Image: Sectiment basin water for irrigation Image: Sectiment basin water for irrigation </td <td></td> <td> Treatment BMPs: Infiltration Practices Wet ponds Created wetland treatment systems Vegetated swales Manufactured devices Bio-retention/infiltration Green Roofs Land disposal: Vegetated filters Riparian Buffers <150ft. Disconnection of roof drainage Bio-retention/bio-infiltration Street sweeping Nutrient, pesticide, herbicide or other chemical application plan alternatives PPC Plans Non-structural Practices Restoration BMPs Stormwater reuse technologies: Divert rainwater into impoundment Underground storage Spray/Drip Irrigation </td> <td></td>		 Treatment BMPs: Infiltration Practices Wet ponds Created wetland treatment systems Vegetated swales Manufactured devices Bio-retention/infiltration Green Roofs Land disposal: Vegetated filters Riparian Buffers <150ft. Disconnection of roof drainage Bio-retention/bio-infiltration Street sweeping Nutrient, pesticide, herbicide or other chemical application plan alternatives PPC Plans Non-structural Practices Restoration BMPs Stormwater reuse technologies: Divert rainwater into impoundment Underground storage Spray/Drip Irrigation 	

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If yes, antidegradation analysis is complete.			

PART 2 ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES (ABACT)

E & S Plan	Official Use Only	PCSM/Site Restoration Plan	Official Use Only
Image: Sectiment BMPs: Sectiment basin with skimmer Sectiment basin ratio of 4:1 or greater (flow length to basin width) Sectiment basin with 4-7 day detention Flocculants Compost Filter Socks Compost Filter Sock Sediment Basin RCE w/ Wash Rack Land disposal: Vegetated filters Riparian buffers <150ft.	Uniy	 Treatment BMPs: Infiltration Practices Wet ponds Created wetland treatment systems Vegetated swales Manufactured devices Bio-retention/infiltration Green Roofs Land disposal: Vegetated filters Riparian Buffers <150ft. Disconnection of roof drainage Bio-retention/bio-infiltration Street sweeping 	Ully
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