

Quarry Center BMP Maintenance	e and Inspection Specifications
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BMP ID GC-1132-2		Box Culvert Manhole Grit Chamber Inspection Report		
Inspection Date / / 2	0	Inspector		
			Maintenance	Actions Required/Date
Inspection Activity	Observations Measurements	Maintenance	Required	Completed/Responsible Foreman
Inspection of structure for		Remove any floatables, accumulated	Yes No	
trash, debris, floatables		trash or debris.		
and off at mannoles		Vacuum any visible oil prior to numping	Vac No	
		permanent pool of water down stream	105 100	
		permanent poor of water down stream		
				/ / 20 Responsible party:
Measure depth to the top		Remove sediment anytime the depth	Yes No	
of accumulated sediment	MH A Measured Depth =	exceeds 6" (any measurement less than)		
(Measurement from top	·	14.9 feet at MH A		
of sediment to top of	MH B Measured Depth =			
casting at each manhole)		14.3 feet at MH B		
	MH C Measured Depth =			
Note: Average depth to		14.0 feet at MH C		
invert =14.45 feet				/ / 20 Responsible party:
Inspect contributing areas		Notify appropriate maintenance staff or	Yes No	
(Parking lots, sidewalks,		property owner of need sweep and or		
landscaped Islands etc.)		remove litter/debris.		
for erosion, trash, leaves,		Sink holes shall be filled and monitored		
ground surface directly		for further depression	Ves No	
above and adjacent to the		for further depression.		
grit chamber for				
sinkholes or depression				
areas				/ / 20 Responsible party:
Inspect all visible		Repair as able and note observations	Yes No	
structural components:		notifying maintenance foremen of any		
Manholes, Castings,		observed damage to structure, manholes,		
Covers, skimmer Plate		casings, tide flex valves and associated		
and pipe connections.		loose or missing bolts, blockages of		
		inlets/outlets, etc.		
				/ / 20 Responsible party:



• Do not use chemical deicers or sand on pervious pavement

Notes: Return reports annually to Minneapolis Public Works SWS stormwater@minneapolismn.gov

BMP ID 8429		Stormceptor STC 900 Maintenance and Inspection Report	
Inspection Date / / 20		Inspector:	
Inspection Activity	Observations Measurements	Maintenance	Maint.Actions Required/DateRequiredCompleted/Responsible Foreman
Visual inspection of pavement for cracks, depressions, holes or excess sand dirt or litter		Remove any litter or debris, sweep if infiltration is compromised. Monitor cracks and depressions report to maintenance staff for repairs. Continued depressions or a crack is a possible indicator of a structural failure, contact project engineer or contractor.	Yes No / / 20 Responsible Party:
Dry Well Manhole Check for standing water and accumulated sediment		Remove any accumulated sediment when depth is 6" or greater and notify City of Minneapolis if water has not drained out 48 hours after a rain event.	Yes No / / 20 Responsible Party:
Inspect contributing areas (non- pervious asphalt, sidewalks landscaping areas etc.) for .erosion, trash, leaves, and debris.		Notify appropriate maintenance staff or property owner of need sweep and or remove litter/debris. Sink holes shall be filled and monitored for further depression.	Yes No / / 20 Responsible Party:
Verify that pavement is adequately infiltrating water during storm events and is dry afterwards		Vacuum sweeping and jet washing porous pavements is required after snow melt and as needed to provide infiltration during the year.	Yes No / / 20 Responsible Party:

Stadium Apartments Site ID 6997 BMP Maintenance and Inspection Specifications

Quarry Center BMP Maintenance	e and Inspection Specifications
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BMP ID GC-1132-2		Box Culvert Manhole Grit Chamber Inspection Report		
Inspection Date / / 2	0	Inspector		
			Maintenance	Actions Required/Date
Inspection Activity	Observations Measurements	Maintenance	Required	Completed/Responsible Foreman
Inspection of structure for		Remove any floatables, accumulated	Yes No	
trash, debris, floatables		trash or debris.		
and off at mannoles		Vacuum any visible oil prior to numping	Vac No	
		permanent pool of water down stream	105 100	
		permanent poor of water down stream		
				/ / 20 Responsible party:
Measure depth to the top		Remove sediment anytime the depth	Yes No	
of accumulated sediment	MH A Measured Depth =	exceeds 6" (any measurement less than)		
(Measurement from top	·	14.9 feet at MH A		
of sediment to top of	MH B Measured Depth =			
casting at each manhole)		14.3 feet at MH B		
	MH C Measured Depth =			
Note: Average depth to		14.0 feet at MH C		
invert =14.45 feet				/ / 20 Responsible party:
Inspect contributing areas		Notify appropriate maintenance staff or	Yes No	
(Parking lots, sidewalks,		property owner of need sweep and or		
landscaped Islands etc.)		remove litter/debris.		
for erosion, trash, leaves,		Sink holes shall be filled and monitored		
ground surface directly		for further depression	Ves No	
above and adjacent to the		for further depression.		
grit chamber for				
sinkholes or depression				
areas				/ / 20 Responsible party:
Inspect all visible		Repair as able and note observations	Yes No	
structural components:		notifying maintenance foremen of any		
Manholes, Castings,		observed damage to structure, manholes,		
Covers, skimmer Plate		casings, tide flex valves and associated		
and pipe connections.		loose or missing bolts, blockages of		
		inlets/outlets, etc.		
				/ / 20 Responsible party:

• Do not use chemical deicers or sand on pervious pavement

Notes: Return reports annually to Minneapolis Public Works SWS stormwater@minneapolismn.gov

BMP ID 8429		Stormceptor STC 900 Maintenance and Inspection Report	
Inspection Date / / 20		Inspector:	
Inspection Activity	Observations Measurements	Maintenance	Maint.Actions Required/DateRequiredCompleted/Responsible Foreman
Visual inspection of pavement for cracks, depressions, holes or excess sand dirt or litter		Remove any litter or debris, sweep if infiltration is compromised. Monitor cracks and depressions report to maintenance staff for repairs. Continued depressions or a crack is a possible indicator of a structural failure, contact project engineer or contractor.	Yes No / / 20 Responsible Party:
Dry Well Manhole Check for standing water and accumulated sediment		Remove any accumulated sediment when depth is 6" or greater and notify City of Minneapolis if water has not drained out 48 hours after a rain event.	Yes No / / 20 Responsible Party:
Inspect contributing areas (non- pervious asphalt, sidewalks landscaping areas etc.) for .erosion, trash, leaves, and debris.		Notify appropriate maintenance staff or property owner of need sweep and or remove litter/debris. Sink holes shall be filled and monitored for further depression.	Yes No / / 20 Responsible Party:
Verify that pavement is adequately infiltrating water during storm events and is dry afterwards		Vacuum sweeping and jet washing porous pavements is required after snow melt and as needed to provide infiltration during the year.	Yes No / / 20 Responsible Party:

Stadium Apartments Site ID 6997 BMP Maintenance and Inspection Specifications

Stadium Apartments Site ID 6997 BMP Maintenance and Inspection Specifications

BMP ID GC 7191		Stormceptor STC 900 Maintenance and Inspection Report		
Inspection Date / / 20		Inspector:		
Inspection Activity	Observations Measurements	Maintenance	Maint. Required	Actions Required/Date Completed/Responsible Foreman
Inspection of structure for trash, debris, floatables and oil		Remove any floatables, accumulated trash or debris with a dip net or vacuum. More frequent cleaning is necessary if floatables regularly exceed a depth of 1 ft. Vacuum any visible oil prior to pumping permanent pool of water downstream.	Yes No Yes No	Volume Floatables removed: Amount and method of removal for oil: / / 20 Responsible Party:
Measure depth of accumulated sediment	Measured Depth =	Pump out entire structure annually and remove sediment anytime depth exceeds 10" Note: Sediment depths in the sump over 18" dictate a more frequent cleaning regiment.	Yes No	Yards Removed
Inspect contributing areas for plugged catch basins, erosion, trash, leaves, and debris. Check ground surface directly adjacent to the structure for sinkholes or depression		Notify appropriate maintenance staff or property owner of need sweep and or remove litter/debris. Sink holes shall be filled and monitored for further depression.	Yes No Yes No	
areas Inspect all visible structural components: Manholes, Castings, Covers, Stormceptor insert, oil riser pipe and pipe connections.		Repair as able and note observations notifying maintenance foremen of any observed damage to structure, manholes, casings, screen, and associated loose or missing bolts, blockages of inlets/outlets, etc. For replacement parts contact: <i>Contech 1-8002211</i>	Yes No	/ / 20 Responsible Party: / / 20 Responsible Party:

Parkway Place Stormwater Best Management Practice Maintenance and Inspection Specifications

Notes: Return reports annually to Minneapolis Public Works SWS stormwater@minneapolismn.gov

BMP ID 1094		Stormceptor Rain Gardens			
Inspection Date / / 20		Inspector:			
Inspection Activity	Observations Measurements	Maintenance	Maint. Required	Action Completed	ns Required/Date /Responsible Foreman
General: Inspect basin and contributing areas (yard areas, sidewalks,) for dirt, trash, leaves etc.		Maintenance staff/contractor shall sweep and or remove litter/debris. Seed, mulch or sod any bare or eroded areas contributing to the BMP Maintenance staff/contractor.	Yes No	/ / 20	Responsible Party:
Stone Forebays/Curb Inlets Check for sediment build up in forebay and for erosion has occurred at discharge point		 Stone Forebays: 1. Remove accumulated sediment and debris. 2. Each forebay has drilled holes in the bottom and sides to allow for slow drain out of any standing water. Clean these out using a narrow rebar pipe. 	Yes No	/ / 20	Responsible Party:
Vegetation/Mulch Visual inspection of Edge, basin bottom and all landscaping adjacent to or contributing to the basin		Remove and replace dead plants; remove cat tails, invasive plants, weeds and woody vegetation, prevent soil loss by protecting bare soils after weeding. Mulch depth should be 4" to 5" add whenever mulch levels are less than 3 using only a double shredded hardwood	Yes No	/ / 20	Responsible Party:
Dewatering Visual inspection for any standing water present in the basins or forebays		If standing water is present 72 hours after a storm event Notify City of Minneapolis 612-673-2406 and maintenance contractor if unable to drain pond or forebay.	Yes No	/ / 20	Responsible Party:

Parkway Place Stormwater Best Management Practice Maintenance and Inspection Specifications

StormTech SC-740Underground Infiltration Device, StormTech Isolator Row (not to scale) EN GEOTEXTILI STORMTECH END CAP WOVEN GEOTEXTILE THAT MEETS AASHTO M288 CLASS S. BETWEEN STONE BASE AND CHAMB Include a Plan view that details the complete Foot Include a relevant detail labeling structures that print of *Stormtech*, location of isolator row, all clean corespond with inspection activities outs, inspection ports and sumps **BMP ID:** Location: Inspection Frequency: Spring, fall and after rain events > 2" 17 Washington Avenue North 7960 Annually or if drainage is not sufficient

Description of Device: Flow enters structure through Manhole A where it flows into the "Isolator Row" there it is temporarily held so the sediment and pollutants can settle out. From the isolator row the flow moves to 6 Rows of 51" X 30" X 100' Stormtech pipe surrounded by washed angular stone below, between and above the chambers. Here the treated water slowly infiltrates into the ground. High flows will bypass the system at manhole A and connect directly to the City Storm drain.

Structure Access: Manhole a, Isolator row and sump are accessible through a Standard 27" manhole cover (Contech Stormwater Solutions) should open with a pick axe, there is no need to enter this manhole unless there are structural problems or a blockage, confined space Entry Permit is required

Notes and Comments: This structure is located in a driving lane; access to structure traffic will require a flagman.

BMP Maintenance and Inspection Specifications

Site ID 7960		Stormtech Inspection Report		
Inspection Date / / 20		Inspector:		
Inspection Activity	Observations Measurements	Maintenance	Maint. Required	Actions Required/Date Completed/Responsible Foreman
Measure and record depth	Measured Depth of sediment	Remove any floatables, accumulated	Yes No	
of sediment, in the		trash or debris.		
Isolator Row at	Manhole A	Clean out Isolator Row using a JetVac		
inspection ports B, C, D		A) A fixed culvert cleaning nozzle with	Yes No	
and Manhole A. If the	Inspection Port B	rear facing nozzle spread of 45 inches or		
average depth of		more is preferable		
sediment is at or above, 3	Inspection Port C	B) Apply multiple passes of JetVac until		
inch depth clean as		backflush water is clean		*
indicated.	Inspection Port D	C) Vacuum manhole sump as required		/ / 20 Responsible Party:
Dewatering, preform a	Depth of Standing Water	Notify The City of Minneapolis of the	Yes No	
visual inspection for any	Manhole A	System's failure to drain within 72		
standing water in		hours of a storm event		
Inspection Ports manholes,	Inspection Port B	Surface Waters and Sewers		
isolator row or associated		(612) 673-2406		
piping.	Inspection Port C	stormwater@minneapolismn.gov		
			-	
	Inspection Port D			/ / 20 Responsible Party:
Inspect contributing areas	<u>Notes:</u>	Notify appropriate maintenance staff or	Yes No	
for plugged catch basins,		property owner of need sweep and or		
erosion, trash, leaves, and		remove litter/debris.		
debris. Check ground				
surface above the system		Sink holes shall be filled and monitored		
for sinkholes or		for further depression.	Yes No	
depression areas				/ / 20 Responsible Party:
Inspect all visible	Notes:	Repair as able and note observations	Yes No	
structural components:		notifying maintenance foremen of any		
Manholes, Castings,		observed damage to structure,		
Covers, pipe connections		manholes, casings, tide flex valves and		
etc.		associated loose or missing bolts,		
		blockages of inlets/outlets, etc.		
				I / / 20 Responsible Party:

BMP Maintenance and Inspection Specifications

Complete this self-inspection form for each site inspection, and return a copy annually to:

Minneapolis Surface Waters and Sewers <u>stormwater@minneapolisMN.gov</u> 309 2nd Avenue South, Room 300

Minneapolis, MN 55401-2268