

Inspection and Maintenance Requirements for Catch Basins



Maintenance Checklist

Maintenance Component	Defect	Conditions When Maintenance is Needed	Results Expected When Maintenance Is Performed	Satisfactory	Unsatisfactory	Comments
General	Trash & debris	<ul style="list-style-type: none"> Trash or debris which is located immediately in front of the catch basin opening or is blocking inlet capacity of the basin by more than 10%. 	<ul style="list-style-type: none"> No trash or debris located immediately in front of catch basin or on grate opening. 			
		<ul style="list-style-type: none"> Trash or debris (in the basin) that exceeds 60 percent of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin, but in no case less than a minimum of six inches clearance from the debris surface to the invert of the lowest pipe. 	<ul style="list-style-type: none"> No trash or debris in the catch basin. 			
		<ul style="list-style-type: none"> Trash or debris in any inlet or outlet pipe blocking more than 1/3 of its height. 	<ul style="list-style-type: none"> Inlet and outlet pipes free of trash or debris. 			
		<ul style="list-style-type: none"> Dead animals or vegetation that could generate odors that could cause complaints or dangerous gases (e.g., methane). 	<ul style="list-style-type: none"> No dead animals or vegetation present within the catch basin. 			

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General (cont.)	Sediment	<ul style="list-style-type: none"> Sediment exceeds 60 percent of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin, but in no case less than a minimum of 6 inches clearance from the sediment surface to the invert of the lowest pipe. 	<ul style="list-style-type: none"> No sediment in the catch basin 			
	Structure damage to frame and/or top slab	<ul style="list-style-type: none"> Top slab has holes larger than 2 square inches or cracks wider than 1/4 inch. 	<ul style="list-style-type: none"> Top slab is free of holes and cracks. 			
		<ul style="list-style-type: none"> Frame not sitting flush on top slab (i.e., separation of more than 3/4 inch of the frame from the top slab). Frame not securely attached 	<ul style="list-style-type: none"> Frame is sitting flush on the riser rings or top slab and firmly attached. 			
		Fractures or cracks in basin walls/bottom	<ul style="list-style-type: none"> Maintenance person judges that structure is unsound. Grout fillet has separated or cracked wider than 1/2 inch and longer than 1 foot at the joint of any inlet/outlet pipe or any evidence of soil particles entering catch basin through cracks. 	<ul style="list-style-type: none"> Basin replaced or repaired to design standards. Pipe is regouted and secure at basin wall. 		

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General (cont.)	Settlement/ misalignment	<ul style="list-style-type: none"> If failure of basin has created a safety function or design problem. 	<ul style="list-style-type: none"> Basin replaced or repaired to design standards. 			
	Vegetation	<ul style="list-style-type: none"> Vegetation growing across and blocking more than 10% of the basin opening. 	<ul style="list-style-type: none"> No vegetation blocking opening to basin. 			
		<ul style="list-style-type: none"> Vegetation growing in inlet/ outlet pipe joints that is more than six inches tall and less than six inches apart. 	<ul style="list-style-type: none"> No vegetation or root growth present. 			
	Contaminants and pollution	<ul style="list-style-type: none"> Any evidence of oil, gasoline, contaminants or other pollutants. <p><i>Coordinate removal/cleanup with local water quality response agency.</i></p>	<ul style="list-style-type: none"> No pollution present 			
Catch basin cover	Cover not in place	<ul style="list-style-type: none"> Cover is missing or only partially in place. Any open catch basin requires maintenance. 	<ul style="list-style-type: none"> Catch basin cover is closed 			
	Locking mechanism not working	<ul style="list-style-type: none"> Mechanism cannot be opened by one maintenance person with proper tools. Bolts into frame have less than 1/2 inch of thread. 	<ul style="list-style-type: none"> Mechanism opens with proper tools. 			

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Catch basin cover (cont.)	Cover difficult to remove	<ul style="list-style-type: none"> One maintenance person cannot remove lid after applying normal lifting pressure. <p><i>Intent is keep cover from sealing off access to maintenance.</i></p>	<ul style="list-style-type: none"> Cover can be removed by one maintenance person. 			
Ladder	Ladder rungs unsafe	<ul style="list-style-type: none"> Ladder is unsafe due to missing rungs, not securely attached to basin wall, misalignment, rust, cracks, or sharp edges. 	<ul style="list-style-type: none"> Ladder meets design standards and allows maintenance person safe access. 			
Metal grates (if applicable)	Grate opening unsafe	<ul style="list-style-type: none"> Grate with opening wider than 7/8 inch. 	<ul style="list-style-type: none"> Grate opening meets design standards. 			
	Trash and debris	<ul style="list-style-type: none"> Trash and debris that is blocking more than 20% of grate surface inletting capacity. 	<ul style="list-style-type: none"> Grate free of trash and debris. 			
	Damaged or missing grates	<ul style="list-style-type: none"> Grate missing or broken member(s) of the grate. 	<ul style="list-style-type: none"> Grate is in place and meets design standards. 			