



PUBLIC WORKS DEPARTMENT
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Monitoring Manhole Standards

May 1, 2008

Salem may require Monitoring Manholes on Private sewer systems to: Monitor private collection systems for inflow and infiltration; allow inspection and testing of materials being discharged to ensure compliance with pretreatment regulations, local limits, and prohibited discharge requirements.

Monitoring manholes are standard flow-through manholes with a smooth, uniformed sloped, free flowing channel, and with steps or a sampler hook. Monitoring manholes should be located near the property line, but before the connection tee to the City sewer main. This location may vary based on physical and topographical constraints, but in all cases shall be readily accessible to City staff at all times without contacting the business. Mainline manholes may be used for monitoring, except when physical conditions reduce the flow channel length restricting sampling access or flow monitoring; ie. inside drop structures; mainline pipe sizes of 12-inch and greater; or facilities of concern to the City **, DEQ, or EPA. Monitoring manholes may be 24-inch (inside diameter) for depths of less than five feet, and pipe size of less than 8-inch diameter. Twenty-four inch manholes shall have no steps and will have a monitoring hook capable of holding a 50 pound sampler. Twenty-four inch monitoring manholes may not be used in a location where flow monitoring may be required, ie. private collection systems, systems in high ground water areas, Commercial/Industrial billing facilities.

Monitoring Manholes are required:

1. On private collection sewer systems in excess of 300 Lineal Feet*, serving more than three residential structures. On systems that flow through wetlands, or high ground water areas, having increased infiltration potential.
2. On facilities or systems required by the City, Oregon Department of Environmental Quality, or U. S. Environmental Protection Agency to provide wastewater pretreatment prior to discharging to the City managed sewer system.
3. Facilities with wastewater drain systems serving non-domestic fixtures, or facilities having processes or activities of concern to the City**, Oregon DEQ, or US EPA.
4. At four unit or larger strip malls, buildings, or properties with three or more commercial buildings on a single property, or single service pipe.
5. At large facilities, such as malls; apartment buildings; assisted living, nursing or care facilities; hotel, motel, or dormitories; medium or larger restaurants.
6. On grease pretreatment systems (trap, or interceptors) or oil separators of 200 gallons or larger in size. The grease interceptor inspection box is not an approved substitute for the required monitoring manhole.

* The distance identified in section 719.6 of the plumbing code.

** See the Salem Environmental Services Pretreatment Consideration listing for industries such as Medical, Laboratories, Laundries, Metal Plating, Food Processing, Chemical Processing, and Manufacturing.