



Stormwater

MS4 PERMIT; PART III. A. 1. *Structural Controls and Stormwater Collection Systems Operation*

Standard Operating Procedures

Exfiltration Trench – Structural Control Inspection

Standard Operational/Maintenance/Documentation Protocol

These Standard Operating Procedures are for the Town of Lake Park's use in complying with the MS4 NPDES permit requirements for the inspection and maintenance of structural controls, specifically exfiltration trenches.

There are approximately 7,791 feet of exfiltration trench within the Town's MS4. The inspection process for these structures is documented below. The locations of the exfiltration trenches are shown on Sheet 1 of 3 on the hardcopy map submitted as Exhibit 7, "Existing Drainage System", in the August, 1999, Engineering Investigation and Report, Comprehensive Storm Drainage Improvements Program report for the Town of Lake Park. Sheet 3 of 3 of Exhibit 7 details the length of exfiltration trench between lengths of drain pipe connecting to individually numbered structures and assigns each trench to a specific drainage basin.

Inspections:

Established exfiltration trench is inspected once every three years, using the following Structural Control Inspection Form.

New exfiltration trench is inspected annually for the first two years of operation.

If chronic problems are identified with a run of exfiltration trench, it is inspected annually until the problem is resolved (two consecutive annual inspections without an issue).

The inspection to check for proper function is conducted close to the recovery time of that exfiltration trench system (generally 72 hours after a significant rainfall event) to verify that the system still functions as intended. The inspection for sediment accumulation in the system is conducted in dry weather.

The anticipated inspection schedule follows (see hardcopy map submitted as Exhibit 7):

- Year 3, inspect Basin No. 12 (south-central and south-east half of Town)
- Year 4, inspect Basin No.'s 10, 11, & 15 (north-central and north-east half of Town)



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- Year 5, inspect Basin No. 22 (west-central part of Town)

Maintenance:

There are several maintenance activities that may be associated with exfiltration trench. The appropriate activity is chosen to correspond to the reported condition. The following activities may be required:

1. Remove sediment in pipe(s) and/or upstream and downstream structures. This may be done by flushing or vacuuming.
2. Remove trash and debris from the system and dispose of properly.
3. Total rehabilitation (removal and replacement) of the exfiltration trench system may be required when the system fails to function at the design capacity.

Documentation:

The exfiltration trench inspections are recorded in the Lake Park Stormwater Division time sheets along with the attached Structural Control Inspection Form.



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Exfiltration Trench – Structural Control Inspection

Date: _____

I.D. #: Basin # _____ Structure # _____

Trench type structure _____ Dry well type structure _____ (check one)

Inspection conducted _____ days/hours after significant rainfall event.

FUNCTION:

Standing water in observation well, inspection port, or inlet? YES NO

Standing water above inlet grates? YES NO

If YES, report to supervisor for further investigation or schedule for maintenance.

GENERAL:

Sediment amount less than one foot below pipe invert in up or downstream structure? YES NO

Depth to bottom of structure below invert: _____ inches

Sediment visible in pipe? YES NO

Debris accumulation at weir? YES NO N/A

If YES, describe and schedule for maintenance: _____

Any indications of illicit discharge or illegal dumping? YES NO

If YES, describe and report to supervisor for proper response: _____
