

Sanitary Sewer Overflow Sample Results
Field Office 6

Fairfield Sanitary Sewer Overflow (Wet Weather) 03/03/08

PARAMETER	UPSTREAM	DOWNSTREAM	DISCHARGE	MAXIMUM PERMIT LIMIT
CBOD mg/l	13	17	28	40
TSS mg/l	45	46	37	45
Ammonia mg/l	0.33	0.62	2.9	4.4
E. Coliform #/100ml	90	70,000	7,700,000	No Limit

Sigourney Sanitary Sewer Overflow (Lift Station Pump Failure) 12/12/07

PARAMETER	UPSTREAM	DOWNSTREAM	DISCHARGE	MAXIMUM PERMIT LIMIT
CBOD mg/l	<2	19	30	40
TSS mg/l	Not analyzed	Not analyzed	Not analyzed	
Ammonia mg/l	0.25	3.3	6.2	22.0
E. Coliform #/100ml	410	530,000	1,100,000	No Limit

Ottumwa Sanitary Sewer Overflow (Broken Force Main) 03/03/08

PARAMETER	UPSTREAM	DOWNSTREAM	DISCHARGE	MAXIMUM PERMIT LIMIT
CBOD mg/l	5	6	14	40
TSS mg/l	720	760	32	45
Ammonia mg/l	0.49	0.68	1.2	No Limit
E. Coliform #/100ml	1000	21,000	160,000	No Limit

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Burlington Sanitary Sewer Overflow (Wet Weather) – Gunnison 03/03/08

PARAMETER	UPSTREAM	DOWNSTREAM	DISCHARGE	MAXIMUM PERMIT LIMIT
CBOD mg/l	8	3	20	40
TSS mg/l	22	26	32	45
Ammonia mg/l	1.4	0.17	3.6	No Limit
E. Coliform #/100ml	100,000	640	690,000	*No Limit

Burlington Sanitary Sewer Overflow (Wet Weather) – Brooks 03/03/08

PARAMETER	UPSTREAM	DOWNSTREAM	DISCHARGE	MAXIMUM PERMIT LIMIT
CBOD mg/l	57	3	7	40
TSS mg/l	190	150	100	45
Ammonia mg/l	6.9	0.44	0.46	No Limit
E. Coliform #/100ml	560,000	6900	1300	*No Limit

Washington Sanitary Sewer Overflow (Wet Weather) 03/03/08

PARAMETER	UPSTREAM	DOWNSTREAM	DISCHARGE	MAXIMUM PERMIT LIMIT
CBOD mg/l	7	8	8	40
TSS mg/l	100	74	110	45
Ammonia mg/l	0.46	0.52	0.53	5.9
E. Coliform #/100ml	1300	100,000	130,000	No Limit

*Burlington does not have fecal coliform limits during winter months. Fecal Coliform limits for the rest of the year are 200/100ml.

Sample Results from Sanitary Sewer Overflow and Manure Discharges

Municipal Sanitary Sewer Overflow (Wet Weather)

PARAMETER	UPSTREAM	DOWNSTREAM	DISCHARGE	MAXIMUM PERMIT LIMIT
CBOD mg/l	13	17	28	40
TSS mg/l	45	46	37	45
Ammonia mg/l	0.33	0.62	2.9	VARIES
E. Coliform #/100ml	90	70,000	7,700,000	NONE

Open Lot Manure Runoff (Fish Kill Documented)

PARAMETER	UPSTREAM	DOWNSTREAM	DISCHARGE
CBOD mg/l	6	39	48
TSS mg/l	18	120	91
Ammonia mg/l	1.1	5.2	14
Fecal Coli #/100ml	2,200,000	6,700,000	8,600,000

Overflow from Earthen Basin Storing Hog Confinement Manure

PARAMETER	UPSTREAM	DOWNSTREAM	DISCHARGE
BOD mg/l	1	180	270
TSS mg/l	16	260	780
Ammonia mg/l	0.3	170	140
Fecal Coli #/100ml	1,000	200,000	340,000

For comparison purposes, background ammonia levels in Iowa streams have been determined to be 0.5 mg/l. Maximum CBOD limits in wastewater permits are 40 mg/l. Maximum Total Suspended Solids (TSS) limits in permits are 45 mg/l for continuous discharge facilities and 120 mg/l for waste stabilization lagoons. Bacteria levels in sewage and manure can vary widely, but is a good indicator of water pollution.