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Legend
LSBP Surface Water Analytical Results
August and November 2001

exceeds the human health criteria (organisms only) established in the CT Water Quality Standards

half the detection limit exceeds the human health criteria (organisms only) established in the CT Water Quality Standards

NA	not analyzed
ND	not detected above concentration found in parentheses
J	estimated value; concentration detected above MDL but below PQL
CT WQ Standards	Connecticut Water Quality Standards
H H criteria	Human Health Criteria (organisms only)

Table 7
LSBP Surface Water Analytical Results
Metals
August and November 2001

Analyte	CT WQ Standards H H Criteria (organisms only)	BSW-01 August 2001	BSW-01 November 2001	BSW-02 August 2001	BSW-02 November 2001
Dissolved Metals (ug/l)					
ALUMINUM	NE	ND (32.0)	ND (32.0)	ND (32.0)	ND (32.0)
ANTIMONY	4,300	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
ARSENIC	0.14	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
BARIUM	NE	25.5	25.6	19.7	20.2
BERYLLIUM	0.13	ND (.64)	ND (.64)	ND (.64)	ND (.64)
CADMIUM	170	ND (.64)	ND (.64)	ND (.64)	ND (.64)
CALCIUM	NE	21,100	24,300	19,800	21,700
CHROMIUM	3,400	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)
COBALT	NE	ND (1.8)	2.2 J	ND (1.8)	ND (1.8)
COPPER	NE	2.7 J	ND (2.4)	ND (2.4)	ND (2.4)
IRON	NE	52.2 J	113	43.1 J	166
LEAD	NE	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)
MAGNESIUM	NE	5,550	6,850	6,030	7,430
MANGANESE	NE	402	775	155	135
MERCURY	0.15	ND (.026)	ND (.026)	ND (.026)	ND (.026)
NICKEL	4,600	1.7 J	ND (2.3)	ND (1.6)	ND (2.3)
POTASSIUM	NE	4,650	6,350	3,850	5,250
SELENIUM	6,800	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
SILVER	65,000	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
SODIUM	NE	29,000	26,600	20,900	19,400
THALLIUM	6.3	ND (.33)	ND (.33)	ND (.33)	ND (.33)
VANADIUM	NE	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)
ZINC	NE	11.4 J	9.7 J	7.6 J	13.5 J
Total Metals (ug/l)					
ALUMINUM	NE	ND (32.0)	32.1 J	218	223
ANTIMONY	4,300	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
ARSENIC	0.14	ND (1.4)	ND (1.4)	ND (1.4)	1.4 J
BARIUM	NE	27.1	27.9	21.9	23.1
BERYLLIUM	0.13	ND (.64)	ND (.64)	ND (.64)	ND (.64)
CADMIUM	170	ND (.64)	ND (.64)	ND (.64)	ND (.64)
CALCIUM	NE	20,400	24,200	19,400	20,400
CHROMIUM	3,400	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)
COBALT	NE	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)
COPPER	NE	2.7 J	ND (2.4)	ND (2.4)	ND (2.4)
IRON	NE	1,090	2,250	950	1,180
LEAD	NE	ND (1.8)	2.0 J	2.4 J	3.2
MAGNESIUM	NE	5,670	7,030	6,240	7,240
MANGANESE	NE	448	812	178	167
MERCURY	0.15	ND (.026)	ND (.026)	ND (.026)	ND (.026)
NICKEL	4,600	2.1 J	2.3 J	ND (1.6)	ND (2.3)
POTASSIUM	NE	4,870	5,900	4,050	4,600
SELENIUM	6,800	ND (1.2)	ND (1.2)	ND (1.2)	1.3 J
SILVER	65,000	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
SODIUM	NE	27,700	28,700	19,900	19,700
THALLIUM	6.3	ND (.33)	ND (.33)	ND (.33)	ND (.33)
VANADIUM	NE	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)
ZINC	NE	7.6 J	12.8 J	11.5 J	12.2 J
HARDNESS AS CACO3		78,000	92,900	77,800	82,900

Table 7
LSBP Surface Water Analytical Results
Metals
August and November 2001

Analyte	CT WQ Standards H H Criteria (organisms only)	DGSISW-01 August 2001	DGSISW-01 November 2001	EBRBSW-02 August 2001	EBRBSW-02 November 2001
Dissolved Metals (ug/l)					
ALUMINUM	NE	400 J	288	ND (32.0)	ND (32.0)
ANTIMONY	4,300	ND (2.4)	3.0 J	ND (2.4)	ND (2.4)
ARSENIC	0.14	ND (1.4) J	3.4 J	ND (1.4)	ND (1.4)
BARIUM	NE	54.7	21.6	15.6	17.4
BERYLLIUM	0.13	ND (.64)	ND (.64)	ND (.64)	ND (.64)
CADMIUM	170	9.7	ND (.64)	ND (.64)	ND (.64)
CALCIUM	NE	43,900	11,100	14,500	14,900
CHROMIUM	3,400	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)
COBALT	NE	13.7	3.8 J	ND (1.8)	ND (1.8)
COPPER	NE	21.2	13.5	ND (2.4)	ND (2.4)
IRON	NE	3620	5360	74.3 J	53.1 J
LEAD	NE	22.2 J	15.2	ND (1.8)	ND (1.8)
MAGNESIUM	NE	4,850	2,840	4,570	5,300
MANGANESE	NE	1,310	528	53.0	27.0
MERCURY	0.15	0.054	ND (.026)	.056 J	ND (.026)
NICKEL	4,600	39.5	10.6	ND (1.6)	ND (2.3)
POTASSIUM	NE	2,710	6,030	1,740	2,570
SELENIUM	6,800	1.3	1.3 J	ND (1.2)	ND (1.2)
SILVER	65,000	ND (1.3)	6.7	ND (1.3)	ND (1.3)
SODIUM	NE	10,300	14,400	16,600	16,300
THALLIUM	6.3	ND (.33)	ND (.33)	ND (.33)	ND (.33)
VANADIUM	NE	1.7 J	14.2	ND (1.6)	ND (1.6)
ZINC	NE	981 J	22.2	12.3 J	21.4
Total Metals (ug/l)					
ALUMINUM	NE	2890 J	7,460	119 J	63.4 J
ANTIMONY	4,300	4.7	7.3	ND (2.4)	ND (2.4)
ARSENIC	0.14	ND (1.4) J	6.5	ND (1.4)	ND (1.4)
BARIUM	NE	114	105	16.0	18.0
BERYLLIUM	0.13	ND (.64)	ND (.64)	ND (.64)	ND (.64)
CADMIUM	170	9.8	5.7	.88 J	ND (.64)
CALCIUM	NE	46,700	18,400	14,200	14,600
CHROMIUM	3,400	13.1	16.2	ND (1.7)	ND (1.7)
COBALT	NE	14.2	8.8	2.8 J	ND (1.8)
COPPER	NE	80.4	171	2.7 J	ND (2.4)
IRON	NE	9,070	14,100	410	115
LEAD	NE	154 J	331	ND (1.8)	ND (1.8)
MAGNESIUM	NE	5,170	4,760	4,720	5,340
MANGANESE	NE	1,250	746	65	26.2
MERCURY	0.15	ND (.026)	0.4	.10 J	ND (.026)
NICKEL	4,600	48.3	37.9	1.6 J	ND (2.3)
POTASSIUM	NE	2,830	7,320	1,790	2,240
SELENIUM	6,800	1.3	1.9 J	ND (1.2)	ND (1.2)
SILVER	65,000	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
SODIUM	NE	9,980	13,600	14,800	16,900
THALLIUM	6.3	ND (.33)	ND (.33)	ND (.33)	ND (.33)
VANADIUM	NE	35.7	75.7	ND (1.6)	ND (1.6)
ZINC	NE	968 J	386	14.5 J	15.8 J
HARDNESS AS CACO3		227,000	63,400	56,900	57,700

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Table 7
LSBP Surface Water Analytical Results
Metals
August and November 2001

Analyte	CT WQ Standards H H Criteria (organisms only)	LSW-02 August 2001	LSW-02 November 2001	LSW-03 August 2001	LSW-03 November 2001
Dissolved Metals (ug/l)					
ALUMINUM	NE	ND (32.0)	ND (32.0)	ND (32.0)	ND (32.0)
ANTIMONY	4,300	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
ARSENIC	0.14	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
BARIUM	NE	16.4	16.9	21.8	16.1
BERYLLIUM	0.13	ND (.64)	ND (.64)	ND (.64)	ND (.64)
CADMIUM	170	ND (.64)	ND (.64)	ND (.64)	ND (.64)
CALCIUM	NE	14,800	14,000	14,400	14,900
CHROMIUM	3,400	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)
COBALT	NE	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)
COPPER	NE	ND (2.4)	ND (2.4)	2.8 J	ND (2.4)
IRON	NE	112	39.1 J	126	266
LEAD	NE	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)
MAGNESIUM	NE	4,240	4,100	4,100	4,440
MANGANESE	NE	150	10.8	268	87.3
MERCURY	0.15	.041 J	ND (.026)	ND (.026)	ND (.026)
NICKEL	4,600	ND (1.6)	ND (2.3)	ND (1.6)	ND (2.3)
POTASSIUM	NE	3,530	4,790	3,870	5,190
SELENIUM	6,800	ND (1.2)	ND (1.2)	ND (1.2)	1.4 J
SILVER	65,000	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
SODIUM	NE	22,900	19,200	18,600	20,400
THALLIUM	6.3	ND (.33)	ND (.33)	ND (.33)	ND (.33)
VANADIUM	NE	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)
ZINC	NE	ND (3.2)	11.7 J	10.7 J	7.6 J
Total Metals (ug/l)					
ALUMINUM	NE	ND (32.0)	83.3 J	ND (32.0)	65.3 J
ANTIMONY	4,300	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
ARSENIC	0.14	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
BARIUM	NE	20.1	24.7	21.7	16.5
BERYLLIUM	0.13	ND (.64)	ND (.64)	ND (.64)	ND (.64)
CADMIUM	170	ND (.64)	ND (.64)	ND (.64)	ND (.64)
CALCIUM	NE	14,600	14,300	14,300	13,900
CHROMIUM	3,400	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)
COBALT	NE	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)
COPPER	NE	ND (2.4)	2.7 J	ND (2.4)	ND (2.4)
IRON	NE	1,190	1,040	959	720
LEAD	NE	ND (1.8)	5.5	ND (1.8)	2.8 J
MAGNESIUM	NE	4,370	4,510	4,120	4,230
MANGANESE	NE	358	250	257	94.6
MERCURY	0.15	.045 J	ND (.026)	ND (.026)	ND (.026)
NICKEL	4,600	1.7 J	ND (2.3)	ND (1.6)	ND (2.3)
POTASSIUM	NE	3,880	6,930	3,600	4,460
SELENIUM	6,800	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
SILVER	65,000	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
SODIUM	NE	21,700	20,400	19,400	19,800
THALLIUM	6.3	ND (.33)	ND (.33)	ND (.33)	ND (.33)
VANADIUM	NE	ND (1.6)	1.7 J	ND (1.6)	ND (1.6)
ZINC	NE	4.0 J	21.2	8.2 J	3.6 J
HARDNESS AS CACO3		58,900	54,900	51,600	54,100