

SPRUCE CREEK WATER QUALITY ASSESSMENT

June 17 through September ____, 2008

<http://www.sprucecreekassociation.org/monitoring.html>

READINGS

Tidal water is classified as SA, SB, SC from best to worse. Spruce Creek is classified as SB (tidal sections) and B (non-tidal sections). In terms of DO, the minimum standard for SB is 85% saturation at any time. The minimum standard for B is 75% saturation or 7 mg/l whichever is greater.

The oxygen holding capacity of water is a function of temperature and salinity. It is possible for water to hold >100% capacity when the input of oxygen from algae or plants is greater than the transfer of oxygen to the air.

SITES

Site 1 = Bond Road by Spruce & Barbers Creeks

Site 2 = Eagle Point in Admiralty Village

Site 3 = Above Roger's Park

Site 4 = Trading Post

Site 5 = Picot Road

Site 6 = Wilson Road/Route 101

Sponsors/Reviewers

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SPRUCE CREEK ASSOCIATION - Water Quality Data							
Date	06/24/08						
Time	0840						
Monitors	Dick Loehr, Will Brewster						
Weather Comments	Overcast, 68o, Much rain the day (and week) before / Light wind, murkiness						
Cloud Cover	Overcast						
Wind Conditions	Slight Breeze						
Wind Direction							
Waves							
Tide	Low, 0935 +0.3						
RESULTS	Time		OM	1M	2M	3M	Comments
Site 1: Bond Rd	0950	DO (mg/L)	7.5	7.0	7.1	6.7	
		Conductivity (us/cm)	30.5	35.7	36.4	37.0	
		Spec Cond (ms/cm)	35.0	41.8	43.1	43.9	
		Salinity (ppt)	22.5	26.8	27.8	28.4	
		Temp (oC)	18.3	17.7	16.9	16.7	
Site 2: Eagle Pt	0930	DO (mg/L)	6.4	6.3	5.4	6.4	
		Conductivity (us/cm)	31.6	42.0	37.1	37.6	
		Spec Cond (ms/cm)	36.2	36.1	43.5	44.3	
		Salinity (ppt)	22.8	27.0	28.1	28.6	
		Temp (oC)	18.6	17.6	17.3	17.1	
Site 3: Moffat's Dock	0920	DO (mg/L)	6.7	6.0			Light breeze, very low tide.
		Conductivity (us/cm)	41.5	37.0			
		Spec Cond (ms/cm)	37.3	45.4			
		Salinity (ppt)	25.7	27.3			
		Temp (oC)	18.3	18.4			
Site 4: Trading Post	1090	DO (mg/L)	6.0	6.1			Brackish looking debris probably from rain
		Conductivity (us/cm)	8.5	15.8			
		Spec Cond (ms/cm)	9.2	18.0			
		Salinity (ppt)	5.2	10.6			
		Temp (oC)	20.9	18.8			
Site 5: Picott Rd	1045	DO (mg/L)	8.8				Lots of flowing water
		Conductivity (us/cm)	52.9				
		Spec Cond (ms/cm)	60.1				
		Salinity (ppt)	0.3				
		Temp (oC)	18.8				
Site 6: Wilson Rd	1050	DO (mg/L)	8.1				
		Conductivity (us/cm)	191.0				
		Spec Cond (ms/cm)	221.1				
		Salinity (ppt)	0.1				
		Temp (oC)	18.1				
Repeat Site: 3	0920	DO (mg/L)	6.0	6.3			
		Conductivity (us/cm)	33.3	36.8			
		Spec Cond (ms/cm)	37.4	42.1			
		Salinity (ppt)	23.7	27.1			
		Temp (oC)	18.7	18.5			
Entered by	PMF						
Proofed by							
			Temp	Salinity	DO	Saturation	
			C	ppt	ppm	%	
		Site 1 - OM	18.3	22.5	7.5	91.5%	
		Site 1 - 1M	17.7	26.8	7.0	86.1%	
		Site 1 - 2M	16.9	27.8	7.1	86.1%	
		Site 1 - 3M	16.7	28.4	6.7	81.9%	
		Site 2 - OM	18.6	22.8	6.4	77.9%	
		Site 2 - 1M	17.6	27.0	6.3	77.0%	
		Site 2 - 2M	17.3	28.1	5.4	66.1%	
		Site 2 - 3M	17.1	28.6	6.4	79.3%	
		Site 3 - OM	18.3	25.7	6.7	82.8%	
		Site 3 - 1M	18.4	27.3	6.0	74.7%	
		Site 3 - 2M					
		Site 3 - 3M					
		Site 4 - OM	20.9	5.2	6.0	69.7%	
		Site 4 - 1M	18.8	10.6	6.1	69.5%	
		Site 4 - 2M					
		Site 5 - OM	18.8	0.3	8.8	95.0%	
		Site 5 - 1M					
		Site 6 - OM	18.1	0.1	8.1	86.0%	

SPRUCE CREEK ASSOCIATION - Water Quality Data							
Date	06/25/08						
Time	1700						
Monitors	Phyllis Ford, Gretchen Szymanski, Marleen Stewart						
Weather Comments	Nice now, has been very rainy						
Cloud Cover	Partly Cloudy						
Wind Conditions	None						
Wind Direction							
Waves	Calm						
Tide	High						
RESULTS	Time		OM	1M	2M	3M	Comments
Site 1: Bond Rd	1900	DO (mg/L)	7.8	8.1	8.4	7.6	
		Conductivity (us/cm)	40.2	39.6	38.5	38.6	
		Spec Cond (ms/cm)	44.7	45.0	45.5	45.6	
		Salinity (ppt)	29.0	29.1	29.3	29.6	
		Temp (oC)	19.7	19.0	17.0	17.0	
Site 2: Eagle Pt	1915	DO (mg/L)	8.2	8.2	8.5	8.4	
		Conductivity (us/cm)	40.4	40.1	38.5	39.3	
		Spec Cond (ms/cm)	44.3	44.8	45.7	45.7	
		Salinity (ppt)	28.6	29.0	29.7	29.7	
		Temp (oC)	20.5	19.5	16.6	16.5	
Site 3: Moffat's Dock	1935	DO (mg/L)	8.2	8.3	8.3	7.0	
		Conductivity (us/cm)	39.6	39.5	39.4	39.5	
		Spec Cond (ms/cm)	45.2	45.2	45.3	45.3	
		Salinity (ppt)	29.3	29.3	29.4	29.4	
		Temp (oC)	18.5	18.4	18.3	18.3	
Site 4: Trading Post	1810	DO (mg/L)	8.5	7.7	7.8		
		Conductivity (us/cm)	39.8	40.0	39.9		
		Spec Cond (ms/cm)	43.1	43.7	44.2		
		Salinity (ppt)	27.5	28.3	28.6		
		Temp (oC)	21.1	20.6	20.0		
Site 5: Picott Rd	1750	DO (mg/L)	8.0	7.7			Tide going out
		Conductivity (us/cm)	28.8	34.5			
		Spec Cond (ms/cm)	28.4	34.7			
		Salinity (ppt)	17.6	21.8			
		Temp (oC)	25.8	24.7			
Site 6: Wilson Rd	1730	DO (mg/L)	9.4	8.8			Saw fish jum. Meter acting weird - turned it off and on again and readings were good.
		Conductivity (us/cm)	305.6	300.0			
		Spec Cond (ms/cm)	319.7	312.0			
		Salinity (ppt)	0.2	0.2			
		Temp (oC)	22.8	22.7			
Repeat Site: 2	1915	DO (mg/L)	8.1	8.2	8.4	8.3	2nd reading at 1/2 meter. Oil sludge, medium green algae.
		Conductivity (us/cm)	40.3	40.3	38.7	38.7	
		Spec Cond (ms/cm)	44.4	44.8	45.5	45.5	
		Salinity (ppt)	28.6	29.0	29.5	29.5	
		Temp (oC)	20.2	19.8	17.2	17.3	
Entered by	PMF						
Proofed by							
			Temp	Salinity	DO	Saturation	
			C	ppt	ppm	%	
		Site 1 - OM	19.7	29.0	7.8	100.6%	
		Site 1 - 1M	19.0	29.1	8.1	104.2%	
		Site 1 - 2M	17.0	29.3	8.4	103.7%	
		Site 1 - 3M	17.0	29.6	7.6	94.0%	
		Site 2 - OM	20.5	28.6	8.2	107.8%	
		Site 2 - 1M	19.5	29.0	8.2	106.0%	
		Site 2 - 2M	16.6	29.7	8.5	104.4%	
		Site 2 - 3M	16.5	29.7	8.4	103.0%	
		Site 3 - OM	18.5	29.3	8.2	104.2%	
		Site 3 - 1M	18.4	29.3	8.3	105.3%	
		Site 3 - 2M	18.3	29.4	8.3	105.2%	
		Site 3 - 3M					
		Site 4 - OM	21.1	27.5	8.5	112.2%	
		Site 4 - 1M					
		Site 4 - 2M					
		Site 5 - OM	25.8	17.6	8.0	108.8%	
		Site 5 - 1M					
		Site 6 - OM	22.8	0.2	9.4	109.3%	

SPRUCE CREEK ASSOCIATION - Water Quality Data							
Date	07/08/08						
Time	0900						
Monitors	Marge Pelletier & Ann Grinnell						
Weather Comments	Sunny, calm, 80o						
Cloud Cover	None						
Wind Conditions	Calm						
Wind Direction	None						
Waves	Calm						
Tide	Low - 10:00 -0.1						
RESULTS	Time		OM	1M	2M	3M	Comments
Site 1: Bond Rd	1020	DO (mg/L)	8.3	7.8			Murky water
		Conductivity (us/cm)	41.0	40.1			
		Spec Cond (ms/cm)	47.0	41.7			
		Salinity (ppt)	30.6	46.8			
		Temp (oC)	18.4	17.6			
Site 2: Eagle Pt	1005	DO (mg/L)	8.0	6.9			Hit bottom before 2M marl
		Conductivity (us/cm)	41.8	41.2			
		Spec Cond (ms/cm)	46.4	46.6			
		Salinity (ppt)	30.3	30.3			
		Temp (oC)	19.8	19.0			
Site 3: Moffat's Dock	0955	DO (mg/L)	8.5				Murky water
		Conductivity (us/cm)	43.5				
		Spec Cond (ms/cm)	46.2				
		Salinity (ppt)	30.0				
		Temp (oC)	22.1				
Site 4: Trading Post	1105	DO (mg/L)	5.9				Slight breeze
		Conductivity (us/cm)	44.5				
		Spec Cond (ms/cm)	43.7				
		Salinity (ppt)	28.1				
		Temp (oC)	25.9				
Site 5: Picott Rd	1100	DO (mg/L)	6.1				93o outside; water not moving
		Conductivity (us/cm)	29.5				
		Spec Cond (ms/cm)	28.5				
		Salinity (ppt)	17.4				
		Temp (oC)	27.0				
Site 6: Wilson Rd	1050	DO (mg/L)	6.8				Water not moving at all. Can see bottom.
		Conductivity (us/cm)	12.8				
		Spec Cond (ms/cm)	13.0				
		Salinity (ppt)	7.5				
		Temp (oC)	24.8				
Repeat Site: 2	1005	DO (mg/L)	7.3	6.9			
		Conductivity (us/cm)	41.9	41.3			
		Spec Cond (ms/cm)	46.6	46.5			
		Salinity (ppt)	30.3	30.3			
		Temp (oC)	19.7	19.1			
Entered by	PMF						
Proofed by							
			Temp	Salinity	DO	Saturation	
			C	ppt	ppm	%	
		Site 1 - OM	18.4	30.6	8.3	106.1%	
		Site 1 - 1M	17.6	46.8	7.8	108.3%	
		Site 1 - 2M					
		Site 1 - 3M					
		Site 2 - OM	19.8	30.3	8.0	104.8%	
		Site 2 - 1M	19.0	30.3	6.9	88.9%	
		Site 2 - 2M					
		Site 2 - 3M					
		Site 3 - OM	22.1	30.0	8.5	115.9%	
		Site 3 - 1M					
		Site 3 - 2M					
		Site 3 - 3M					
		Site 4 - OM	25.9	28.1	5.9	85.1%	
		Site 4 - 1M					
		Site 4 - 2M					
		Site 5 - OM	27.0	17.4	6.1	84.4%	
		Site 5 - 1M					
		Site 6 - OM	24.8	7.5	6.8	85.6%	

SPRUCE CREEK ASSOCIATION - Water Quality Data							
Date	07/08/08						
Time	1510						
Monitors	Phyllis Ford & Will Brewster						
Weather Comments	Hot & muggy						
Cloud Cover	Partly cloudy						
Wind Conditions	Calm, then some breezy later						
Wind Direction	East						
Waves	Ripples						
Tide	High - 16:11 +9.2						
RESULTS	Time		OM	1M	2M	3M	Comments
Site 1: Bond Rd	1617	DO (mg/L)	8.6	8.6	8.9	9.2	Now breezy from the east.
		Conductivity (us/cm)	40.6	39.8	38.7	38.0	
		Spec Cond (ms/cm)	46.9	46.8	47.5	48.5	
		Salinity (ppt)	30.6	30.4	31.0	31.3	
		Temp (oC)	18.1	17.7	15.7	14.4	
Site 2: Eagle Pt	1600	DO (mg/L)	9.2	8.6	7.5	8.2	2 dogs playing in water. Odd numbers - must be fresh water at surface first time. Waterskiers. 2nd time the surface water was saltier.
		Conductivity (us/cm)	19.1	39.2	38.8	38.7	
		Spec Cond (ms/cm)	21.9	47.0	47.0	47.1	
		Salinity (ppt)	13.0	30.6	30.6	30.6	
		Temp (oC)	18.7	16.7	16.0	15.7	
Site 3: Moffat's Dock	1550	DO (mg/L)	9.1	8.5	8.7	8.7	At 3M DO was 7.9 or 8.0 when got around on the meter a second time.
		Conductivity (us/cm)	41.5	40.2	39.0	38.7	
		Spec Cond (ms/cm)	46.7	45.8	46.8	47.1	
		Salinity (ppt)	30.1	30.2	30.4	30.7	
		Temp (oC)	19.6	17.9	16.3	15.7	
Site 4: Trading Post	1715	DO (mg/L)	8.3	7.9	7.6		
		Conductivity (us/cm)	44.7	44.5	44.4		
		Spec Cond (ms/cm)	46.7	46.6	46.6		
		Salinity (ppt)	30.3	30.3	30.3		
		Temp (oC)	22.9	22.7	22.6		
Site 5: Picott Rd	1700	DO (mg/L)	8.1	8.2			Tide going out (just changed!). Very high tide. Now the tide has turned.
		Conductivity (us/cm)	47.2	46.9			
		Spec Cond (ms/cm)	45.7	46.1			
		Salinity (ppt)	29.5	29.9			
		Temp (oC)	26.9	26.1			
Site 6: Wilson Rd	1650	DO (mg/L)	6.3	6.1			Mucky/dusty film on top of water. Tide slightly coming in. 2nd reading at only 1/2M not full 1M.
		Conductivity (us/cm)	40.8	42.2			
		Spec Cond (ms/cm)	30.8	38.1			
		Salinity (ppt)	23.2	24.1			
		Temp (oC)	30.5	30.5			
Repeat Site:	1605	DO (mg/L)	8.7	8.3	8.5	8.5	Now saltier water.
		Conductivity (us/cm)	40.4	39.2	38.6	38.6	
		Spec Cond (ms/cm)	46.9	47.0	47.0	47.1	
		Salinity (ppt)	30.6	30.6	30.6	30.7	
		Temp (oC)	17.7	16.6	15.8	15.5	
Entered by	PMF						
Proofed by							
			Temp	Salinity	DO	Saturation	
			C	ppt	ppm	%	
		Site 1 - OM	18.1	30.6	8.6	109.3%	
		Site 1 - 1M	17.7	30.4	8.6	108.4%	
		Site 1 - 2M	15.7	31.0	8.9	108.2%	
		Site 1 - 3M	14.4	31.3	9.2	109.2%	
		Site 2 - OM	18.7	13.0	9.2	106.5%	
		Site 2 - 1M	16.7	30.6	8.6	106.4%	
		Site 2 - 2M	16.0	30.6	7.5	91.5%	
		Site 2 - 3M	15.7	30.6	8.2	99.5%	
		Site 3 - OM	19.6	30.1	9.1	118.6%	
		Site 3 - 1M	17.9	30.2	8.5	107.4%	
		Site 3 - 2M	16.3	30.4	8.7	106.7%	
		Site 3 - 3M	15.7	30.7	8.7	105.6%	
		Site 4 - OM	22.9	30.3	8.3	115.0%	
		Site 4 - 1M	22.7	30.3	7.9	109.1%	
		Site 4 - 2M	22.6	30.3	7.6	104.8%	
		Site 5 - OM	26.9	29.5	8.1	119.7%	
		Site 5 - 1M	26.1	29.9	8.2	119.9%	
		Site 6 - OM	30.5	23.2	6.3	95.5%	

SPRUCE CREEK ASSOCIATION - Water Quality Data							
Date	07/22/08						
Time	0730						
Monitors	Dick Loehr & Steve Hall						
Weather Comments	Overcast, 68o, heavy rain 36 hours ago, extremely low tide						
Cloud Cover	Partly cloudy						
Wind Conditions	Slight Breeze						
Wind Direction	N						
Waves	Calm and then Ripples						
Tide	Low - 08:25 0.0						
RESULTS	Time		OM	1M	2M	3M	Comments
Site 1: Bond Rd	0835	DO (mg/L)	7.6	7.5	7.6	7.6	Looks like tide is still going out. At 3M we are at the bottom. Bright sun, calm.
		Conductivity (us/cm)	38.6	38.6	38.7	38.7	
		Spec Cond (ms/cm)	45.0	45.2	45.6	45.5	
		Salinity (ppt)	29.1	29.3	29.6	29.6	
		Temp (oC)	17.6	17.3	17.1	17.2	
Site 2: Eagle Pt	0819	DO (mg/L)	7.2	6.9	7.1	6.9	At 3M it is more like 2.5M.
		Conductivity (us/cm)	36.4	37.7	38.3	38.4	
		Spec Cond (ms/cm)	42.2	44.1	44.8	45.1	
		Salinity (ppt)	27.2	28.5	29.0	29.2	
		Temp (oC)	17.8	17.5	17.4	17.3	
Site 3: Moffat's Dock	0809	DO (mg/L)	6.0				
		Conductivity (us/cm)	36.8				
		Spec Cond (ms/cm)	42.2				
		Salinity (ppt)	27.0				
		Temp (oC)	18.3				
Site 4: Trading Post	0906	DO (mg/L)	5.9	5.3			Brown scum persent. Tide still going out. Evidence of surface runoff into creek.
		Conductivity (us/cm)	19.4	30.7			
		Spec Cond (ms/cm)	21.2	34.8			
		Salinity (ppt)	12.8	21.9			
		Temp (oC)	20.6	18.7			
Site 5: Picott Rd	0924	DO (mg/L)	8.0				Tide still going out. Is the line of rocks on the downstream side (sort of a dam) intentional?
		Conductivity (us/cm)	1380.0				
		Spec Cond (ms/cm)	1530.0				
		Salinity (ppt)	0.8				
		Temp (oC)	20.2				
Site 6: Wilson Rd	0934	DO (mg/L)	8.4				Reddish browh cast to water. Otherwise clear.
		Conductivity (us/cm)	293.2				
		Spec Cond (ms/cm)	330.1				
		Salinity (ppt)	0.2				
		Temp (oC)	19.2				
Repeat Site: 2	0819	DO (mg/L)	6.6	6.9	6.8	6.8	
		Conductivity (us/cm)	36.6	37.7	38.2	38.4	
		Spec Cond (ms/cm)	42.6	44.1	44.8	45.0	
		Salinity (ppt)	27.5	28.5	29.0	29.2	
		Temp (oC)	17.6	17.4	17.4	17.3	
Entered by	PMF						
Proofed by							
			Temp	Salinity	DO	Saturation	
			C	ppt	ppm	%	
		Site 1 - OM	17.6	29.1	7.6	94.8%	
		Site 1 - 1M	17.3	29.3	7.5	93.2%	
		Site 1 - 2M	17.1	29.6	7.6	94.2%	
		Site 1 - 3M	17.2	29.6	7.6	94.4%	
		Site 2 - OM	17.8	27.2	7.2	89.2%	
		Site 2 - 1M	17.5	28.5	6.9	85.6%	
		Site 2 - 2M	17.4	29.0	7.1	88.2%	
		Site 2 - 3M	17.3	29.2	6.9	85.7%	
		Site 3 - OM	18.3	27.0	6.0	74.9%	
		Site 3 - 1M					
		Site 3 - 2M					
		Site 3 - 3M					
		Site 4 - OM	20.6	12.8	5.9	70.8%	
		Site 4 - 1M	18.7	21.9	5.3	64.7%	
		Site 4 - 2M					
		Site 5 - OM	20.2	0.8	8.0	88.8%	
		Site 5 - 1M					
		Site 6 - OM	19.2	0.2	8.4	91.0%	

SPRUCE CREEK ASSOCIATION - Water Quality Data							
Date	07/22/08						
Time	1445						
Monitors	Phyllis Ford & Ed Hanson						
Weather Comments	Lovely (lots of rain before), 76o, beautiful, rain has stopped. Strong breeze from downstream (south?).						
Cloud Cover	None, then partly cloudy						
Wind Conditions	Calm						
Wind Direction							
Waves	Ripples						
Tide	High - 14:32 +8.9						
RESULTS	Time		OM	1M	2M	3M	Comments
Site 1: Bond Rd	1555	DO (mg/L)	8.2	7.9	8.0	7.9	
		Conductivity (us/cm)	41.9	41.7	41.4	41.1	
		Spec Cond (ms/cm)	46.6	46.6	46.7	47.0	
		Salinity (ppt)	30.3	30.2	30.4	30.6	
		Temp (oC)	19.9	19.5	18.9	18.4	
Site 2: Eagle Pt	1530	DO (mg/L)	8.0	7.8	7.7	7.2	
		Conductivity (us/cm)	41.1	40.7	40.6	40.5	
		Spec Cond (ms/cm)	46.7	46.8	46.9	46.9	
		Salinity (ppt)	30.4	30.3	30.5	30.6	
		Temp (oC)	18.6	18.3	17.9	17.8	
Site 3: Moffat's Dock	1520	DO (mg/L)	8.3	7.6	7.7	8.3	
		Conductivity (us/cm)	28.4	41.1	40.7	40.5	
		Spec Cond (ms/cm)	25.8	46.4	46.7	47.0	
		Salinity (ppt)	13.6	30.2	30.4	30.6	
		Temp (oC)	19.4	18.8	18.3	17.8	
Site 4: Trading Post	1645	DO (mg/L)	8.5	7.8	7.6		(PMF only, no Ed) 3rd reading at 1.5M
		Conductivity (us/cm)	39.3	36.9	39.7		
		Spec Cond (ms/cm)	41.6	41.8	42.0		
		Salinity (ppt)	26.7	26.9	27.0		
		Temp (oC)	22.2	22.2	22.2		
Site 5: Picott Rd	1635	DO (mg/L)	8.6	8.6			(PMF only, no Ed) 8 ducks. Tide going out fast. Very dark brown water - like dark chocolate. 2nd reading at 3/4M.
		Conductivity (us/cm)	25.1	29.2			
		Spec Cond (ms/cm)	24.6	28.6			
		Salinity (ppt)	14.6	17.5			
		Temp (oC)	26.6	26.1			
Site 6: Wilson Rd	1620	DO (mg/L)	8.5	8.0			(PMF only, no Ed) 2nd reading at 1/2M. Tide slowly outbound. Very dark brown water.
		Conductivity (us/cm)	332.9	333.1			
		Spec Cond (ms/cm)	346.7	346.9			
		Salinity (ppt)	0.2	0.2			
		Temp (oC)	22.7	22.7			
Repeat Site: 5	1635	DO (mg/L)	8.7	8.6			
		Conductivity (us/cm)	25.3	28.5			
		Spec Cond (ms/cm)	24.6	28.6			
		Salinity (ppt)	15.1	17.3			
		Temp (oC)	26.5	26.3			
Entered by	PMF						
Proofed by							
			Temp	Salinity	DO	Saturation	
			C	ppt	ppm	%	
		Site 1 - OM	19.9	30.3	8.2	107.6%	
		Site 1 - 1M	19.5	30.2	7.9	102.9%	
		Site 1 - 2M	18.9	30.4	8.0	103.1%	
		Site 1 - 3M	18.4	30.6	7.9	101.0%	
		Site 2 - OM	18.6	30.4	8.0	102.5%	
		Site 2 - 1M	18.3	30.3	7.8	99.4%	
		Site 2 - 2M	17.9	30.5	7.7	97.5%	
		Site 2 - 3M	17.8	30.6	7.2	91.0%	
		Site 3 - OM	19.4	13.6	8.3	97.8%	
		Site 3 - 1M	18.8	30.2	7.6	97.7%	
		Site 3 - 2M	18.3	30.4	7.7	98.1%	
		Site 3 - 3M	17.8	30.6	8.3	104.9%	
		Site 4 - OM	22.2	26.7	8.5	113.9%	
		Site 4 - 1M	22.2	26.9	7.8	104.7%	
		Site 4 - 2M	22.2	27.0	7.6	102.1%	
		Site 5 - OM	26.6	14.6	8.6	116.3%	
		Site 5 - 1M	26.1	17.5	8.6	117.2%	
		Site 6 - OM	22.7	0.2	8.5	98.6%	
		Site 6 - 1M	22.7	0.2	8.0	92.8%	

SPRUCE CREEK ASSOCIATION - Water Quality Data							
Date	08/04/08						
Time	0706						
Monitors	Phyllis Ford & Will Brewster						
Weather Comments	Partly cloud & calm, 64oF/18oC, big rain last night, air temp 71o at 9:30						
Cloud Cover	Partly cloudy						
Wind Conditions	Calm to slight breeze						
Wind Direction							
Waves	Calm to ripples						
Tide	Low - 7:53 -0.7						
RESULTS	Time		OM	1M	2M	3M	Comments
Site 1: Bond Rd	0837	DO (mg/L)	6.9	4.8	5.5	5.8	Now breezy from NW. Tide still out. Ripples.
		Conductivity (us/cm)	8.2	36.8	37.1	37.1	
		Spec Cond (ms/cm)	10.8	41.0	41.4	41.5	
		Salinity (ppt)	4.0	26.3	26.6	26.6	
		Temp (oC)	20.0	19.8	19.6	19.6	
Site 2: Eagle Pt	0826	DO (mg/L)	5.7	5.1	5.5	5.7	Tide still outbound.
		Conductivity (us/cm)	15.2	35.1	36.3	36.5	
		Spec Cond (ms/cm)	16.8	19.0	40.4	40.7	
		Salinity (ppt)	10.9	24.9	25.9	26.1	
		Temp (oC)	20.0	19.7	19.7	19.6	
Site 3: Moffat's Dock	0815	DO (mg/L)	4.2				Saw 21 heron on the way up here! Verry low tide! Muddy water. Missed temperature reading so used reading from Eagle Point.
		Conductivity (us/cm)	13.9				
		Spec Cond (ms/cm)	15.5				
		Salinity (ppt)	9.1				
		Temp (oC)	20.0				
Site 4: Trading Post	0907	DO (mg/L)	5.8	4.3			Tide still going out.
		Conductivity (us/cm)	6.8	16.3			
		Spec Cond (ms/cm)	7.5	17.9			
		Salinity (ppt)	4.1	10.8			
		Temp (oC)	20.9	19.5			
Site 5: Picott Rd	0915	DO (mg/L)	7.8				Tide still going out fast. 2nd reading - meter not fully in water. 3rd column - cross-check at 0M.
		Conductivity (us/cm)	47.5				
		Spec Cond (ms/cm)	54.3				
		Salinity (ppt)	0.3				
		Temp (oC)	19.0				
Site 6: Wilson Rd	0928	DO (mg/L)	7.6				Tide strong out. Dark chocolate water.
		Conductivity (us/cm)	171.2				
		Spec Cond (ms/cm)	196.2				
		Salinity (ppt)	0.1				
		Temp (oC)	18.5				
Repeat Site: 5	0915	DO (mg/L)	8.0				
		Conductivity (us/cm)	475.0				
		Spec Cond (ms/cm)	540.0				
		Salinity (ppt)	0.3				
		Temp (oC)	18.8				
Entered by	PMF						
Proofed by							
			Temp	Salinity	DO	Saturation	
			C	ppt	ppm	%	
		Site 1 - OM	20.0	4.0	6.9	77.7%	
		Site 1 - 1M	19.8	26.3	4.8	61.4%	
		Site 1 - 2M	19.6	26.6	5.5	70.2%	
		Site 1 - 3M	19.6	26.6	5.8	74.1%	
		Site 2 - 0M	20.0	10.9	5.7	66.9%	
		Site 2 - 1M	19.7	24.9	5.1	64.6%	
		Site 2 - 2M	19.7	25.9	5.5	70.1%	
		Site 2 - 3M	19.6	26.1	5.7	72.6%	
		Site 3 - 0M	20.0	9.1	4.2	48.7%	
		Site 3 - 1M					
		Site 3 - 2M					
		Site 3 - 3M					
		Site 4 - 0M	20.9	4.1	5.8	66.5%	
		Site 4 - 1M	19.5	10.8	4.3	49.9%	
		Site 4 - 2M					
		Site 5 - 0M	19.0	0.3	7.8	84.2%	
		Site 5 - 1M					
		Site 6 - 0M	18.5	0.1	7.6	81.2%	

SPRUCE CREEK ASSOCIATION - Water Quality Data							
Date	08.04.08						
Time	1315						
Monitors	Phyllis Ford, Barbara Diefendorf (& Ron Ledgett boat driver on 3 water sites)						
Weather Comments	Very nice, some threatening clouds						
Cloud Cover	Partly cloudy						
Wind Conditions	Sligh breeze						
Wind Direction	W						
Waves	Ripples						
Tide	High - 2:00 +9.5						
RESULTS	Time		OM	1M	2M	3M	Comments
Site 1: Bond Rd	1355	DO (mg/L)	7.1	7.1	7.5	7.5	Spreading overcast
		Conductivity (us/cm)	38.4	38.6	38.5	39.6	
		Spec Cond (ms/cm)	41.2	42.4	44.1	44.5	
		Salinity (ppt)	26.4	27.5	28.5	28.8	
		Temp (oC)	21.5	20.0	19.4	19.2	
Site 2: Eagle Pt	1345	DO (mg/L)	7.0	6.6	6.9	6.9	
		Conductivity (us/cm)	38.1	37.8	37.9	38.0	
		Spec Cond (ms/cm)	40.8	41.6	41.9	42.1	
		Salinity (ppt)	26.2	26.8	26.9	27.1	
		Temp (oC)	21.4	20.1	19.9	19.8	
Site 3: Moffat's Dock	1335	DO (mg/L)	7.0	6.9	6.8	6.9	Herons
		Conductivity (us/cm)	37.5	37.4	37.3	37.6	
		Spec Cond (ms/cm)	40.2	40.8	40.8	41.7	
		Salinity (ppt)	25.7	26.1	36.1	26.8	
		Temp (oC)	21.3	20.7	20.5	19.9	
Site 4: Trading Post	1435	DO (mg/L)	6.6	6.5	6.6		Muck (brown foam) off dock. Tide still coming in. Clearing a bit, more rain coming in from west.
		Conductivity (us/cm)	37.3	37.3	37.3		
		Spec Cond (ms/cm)	40.3	40.5	40.6		
		Salinity (ppt)	25.8	25.9	26.0		
		Temp (oC)	20.9	20.8	20.8		
Site 5: Picott Rd	1425	DO (mg/L)	6.5	6.2			Coffee colored water; some tide still coming in. Some raindrops.
		Conductivity (us/cm)	19.7	32.7			
		Spec Cond (ms/cm)	31.4	34.8			
		Salinity (ppt)	20.1	21.9			
		Temp (oC)	22.4	21.8			
Site 6: Wilson Rd	1417	DO (mg/L)	7.5	8.2			Water color of coffee. Tide is slightly coming in still; no - it just stopped. Second reading at 3/4M. Some raindrops.
		Conductivity (us/cm)	202.5	237.3			
		Spec Cond (ms/cm)	248.9	264.7			
		Salinity (ppt)	0.1	0.1			
		Temp (oC)	20.6	20.4			
Repeat Site: 3	1335	DO (mg/L)	7.0	7.0	7.0	6.6	
		Conductivity (us/cm)	37.5	37.5	37.2	37.7	
		Spec Cond (ms/cm)	40.3	40.8	40.8	41.8	
		Salinity (ppt)	25.8	26.2	26.2	26.9	
		Temp (oC)	21.4	20.7	20.4	19.8	
Entered by	PMF						
Proofed by							
			Temp	Salinity	DO	Saturation	
			C	ppt	ppm	%	
		Site 1 - OM	21.5	26.4	7.1	93.8%	
		Site 1 - 1M	20.0	27.5	7.1	91.8%	
		Site 1 - 2M	19.4	28.5	7.5	96.5%	
		Site 1 - 3M	19.2	28.8	7.5	96.3%	
		Site 2 - OM	21.4	26.2	7.0	92.2%	
		Site 2 - 1M	20.1	26.8	6.6	85.2%	
		Site 2 - 2M	19.9	26.9	6.9	88.8%	
		Site 2 - 3M	19.8	27.1	6.9	88.7%	
		Site 3 - OM	21.3	25.7	7.0	91.8%	
		Site 3 - 1M	20.7	26.1	6.9	89.7%	
		Site 3 - 2M	20.5	36.1	6.8	93.4%	
		Site 3 - 3M	19.9	26.8	6.9	88.7%	
		Site 4 - OM	20.9	25.8	6.6	85.9%	
		Site 4 - 1M	20.8	25.9	6.5	84.5%	
		Site 4 - 2M	20.8	26.0	6.6	85.9%	
		Site 5 - OM	22.4	20.1	6.5	84.2%	
		Site 5 - 1M	21.8	21.9	6.2	80.2%	
		Site 6 - OM	20.6	0.1	7.5	83.5%	