

**Penobscot River Intensive Survey - Field Data
Riverine Stations - Millinocket to Bangor
Maine DEP**

July 31 2007

Station	Location	Time	Depth (m)	Morning Run		
				D.O. (ppm)	D.O. (% Sat.)	Temp (C)
WBP1	Ferguson Lake Outlet	6:44	0	7.2	85.8%	24.0
			1	7.2	85.2%	24.1
			2	7.2	86.2%	24.1
			3	7.2	85.7%	24.1
			4	7.1	85.0%	24.1
WBP2	Dolby Pond Inlet	7:53	0	6.9	82.5%	24.2
			1	6.9	82.4%	24.2
			2	7.0	83.3%	24.2
			3	6.9	81.9%	24.2
			4			
WBP3a	Dolby Pond Dam (above)	8:39	0	8.9	109.1%	25.5
			1	8.9	108.6%	25.5
			2	8.8	107.4%	25.4
			3	8.8	107.0%	25.4
			4	8.6	104.6%	25.4
			5	8.6	105.0%	25.3
			6	8.2	99.2%	25.2
			7	7.3	88.4%	24.9
			8	7.0	83.6%	24.6
9						
WBP3b	Dolby Pond Dam (below)					
WBP4a	E Millinocket Dam (above)	9:38	0	8.1	98.3%	25.5
			1	8.0	97.7%	25.5
			2			
3						
WBP4b	E Millinocket Dam (below)					
WBP5a	Rockabema Dam (above)	10:13	0	8.0	97.7%	25.2
			1	8.0	96.5%	25.1
			2	8.0	97.2%	25.0
			3	7.9	95.8%	25.0
			4	7.8	94.5%	24.9
			5			
6						
WBP5b	Rockabema Dam (below)					
Pn1a	Weldon Dam (above)	9:33	0	9.3	113.0%	25.2
			1	6.9	83.7%	25.1
			2	6.6	80.0%	25.1
			3	6.3	76.4%	25.1
			4	6.2	75.0%	25.0
			5	6.1	73.7%	24.9
			6	6.1	73.5%	24.8
7						
Pn1b	Weldon Dam (below)					
Pn2	Winn	8:36	0	7.3	85.6%	23.3
Pn3	North Lincoln (bridge site)	8:03	<1 (mid depth)	7.5	87.6%	23.1
Pn4	South Lincoln (below Island)	7:26	0	7.2	87.0%	24.9
			1	7.1	85.9%	25.0
			2	7.0	85.0%	25.2
Pn5a	West Enfield Dam (above)	6:40	0	6.6	80.8%	25.6
			1	6.6	81.0%	25.8
			2	6.5	79.8%	25.8
			3	6.4	78.6%	25.8
			4	6.4	78.0%	25.4
5						
Pn5b	West Enfield Dam (below)					
Pn6	Passadumkeag BL	6:13	<1 (mid depth)	7.5	89.9%	24.5
Pn7	Greenbush BL	7:32	0	7.2	87.9%	25.5
			1	7.2	88.1%	25.6
			2	7.1	87.0%	25.7
Pn8	Costigan BL	8:32	0	7.3	89.8%	25.9
			1	7.2	88.7%	26.0
			2	7.1	87.8%	26.2
Pn9a	Milford Dam (above)	9:55	0	7.4	91.9%	26.4
			1	7.5	93.1%	26.4
			2	7.4	92.0%	26.5
3	7.4	92.0%	26.5			
Pn9b	Milford Dam (below)					
Pn10a	Great Works Dam (above)	9:12	0	7.4	92.0%	26.5
Pn10b	Great Works Dam (below)					
P11	Orono nr Water Co. (bank)	1:55	<1 (mid depth)	7.1	87.3%	25.9
Pn12a	Veazie Dam (above)	7:48	0	7.0	86.1%	25.9
			1	7.0	86.4%	26.1
			2	6.8	84.1%	26.2
			3	6.8	84.3%	26.3
			4	6.8	84.4%	26.4
5	6.7	83.2%	26.4			
Pn12b	Veazie Dam (below)		<1 (mid depth)			
Pn13-AM	Bangor Dam (above)	8:37	0	7.1	87.8%	26.2
			1			
			2			
			3			
			4			
5						

Time	Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)
	1	7.7	93.6%	25.5
	2	7.7	94.0%	25.6
	3	7.7	94.0%	25.5
	4	7.8	95.5%	25.4
1:50	0	7.6	92.6%	25.3
	1	7.6	91.9%	25.1
	2	7.6	91.6%	24.7
	3	7.6	91.3%	24.7
	4			
2:12	0	9.8	125.6%	28.0
	1	9.8	124.7%	27.7
	2	9.1	111.7%	25.7
	3	8.4	101.9%	25.4
	4	8.2	99.4%	25.3
	5	8.1	98.0%	25.2
	6	7.7	93.2%	25.0
	7	7.2	86.6%	24.8
	8	7.0	84.1%	24.5
9				
3:12	0	8.2	99.8%	25.2
1				
3:27	0	8.1	98.4%	25.5
	1	8.2	99.7%	25.5
	2			
3				
1:55	0	8.6	105.0%	25.5
1				
4:25	0	8.4	104.1%	26.5
	1	8.4	104.0%	26.0
	2	8.4	103.6%	25.9
	3	8.5	103.9%	25.8
	4	8.4	103.4%	25.8
	5			
6				
4:08	0	8.7	107.0%	25.9
1				
3:37	0	8.2	103.6%	27.4
	1	8.2	103.1%	27.1
	2	7.7	94.7%	25.9
	3	7.8	95.3%	25.5
	4	7.7	93.9%	25.4
	5	7.6	92.5%	25.3
	6	7.2	87.5%	25.2
7				
3:09	0	7.9	98.6%	26.7
2:50	0	8.8	113.2%	28.4
2:37	<1 (mid depth)	8.4	107.3%	28.0
2:01	0	7.7	96.6%	27.0
	1	7.6	95.0%	26.8
	2	7.5	93.6%	26.7
1:06	0	7.7	99.1%	28.4
	1	7.6	96.1%	27.4
	2	7.5	94.5%	27.2
	3	7.6	95.4%	27.0
	4	7.5	94.0%	26.9
5				
1:29	<1 (mid depth)	6.0	71.4%	24.1
2:10	<1 (mid depth)	8.1	102.4%	27.4
2:52	0	7.5	94.6%	27.3
	1	7.6	95.9%	27.3
	2	7.6	95.7%	27.2
3:19	0	7.3	92.9%	27.8
	1	7.3	92.9%	27.8
	2	7.4	94.0%	27.7
5:06	0	7.3	92.3%	27.4
	1	7.3	92.4%	27.5
	2	7.3	92.4%	27.5
3				
4:45	0	7.9	98.4%	26.6
3:53	0	7.7	96.1%	26.7
4:20	0	7.5	94.5%	27.2
13:35	<1 (mid depth)	8.2	106.1%	28.7
14:07	0	7.8	100.4%	28.4
	1	7.7	97.7%	27.6
	2	7.7	97.3%	27.4
	3	7.6	95.9%	27.3
	4	7.6	95.9%	27.3
5	7.6	95.7%	27.2	
14:43	<1 (mid depth)	7.5	95.8%	28.0
15:00	0	7.7	98.4%	28.0
	1	7.7	98.0%	27.8
	2	7.7	97.8%	27.7
	3	7.6	96.4%	27.6
	4	7.6	96.4%	27.6
5				

Penobscot River Intensive Survey - Field Data
Tidal Riverine and Estuarine Stations - Bangor to Bucksport
Maine DEP

31-Jul-07

Bangor Low Tide:

Station	Location	Time	Morning Run					Salinity (ppt)
			Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)		
PnE1	Rte 9 / 1A Bridge Bangor / Brewer		0	7.7	97.8%	27.7	0.0	
			2	7.7	97.3%	27.4	0.0	
			4	7.5	94.6%	27.3	0.0	
			6	7.4	93.2%	27.2	0.0	
			8	7.3	91.9%	27.2	0.0	
PnE2	South Brewer	11:30	0	7.4	93.0%	27.0	0.2	
			2	7.5	94.1%	26.9	0.2	
			6					
PnE3	N Orrington (ledges)	11:12	0	7.4	92.9%	26.4	1.9	
			2	7.4	92.1%	25.8	2.4	
			4	7.3	90.6%	25.6	2.5	
			6	7.3	90.5%	25.5	2.7	
			8	7.3	90.4%	25.4	2.8	
PnE4	Orrington (near PERC)	11:00	0	7.4	92.0%	25.6	2.9	
			2	7.4	91.8%	25.4	3.0	
			4	7.3	90.0%	24.9	3.6	
			6	7.1	87.5%	24.7	4.1	
			8	7.1	87.2%	24.5	4.3	
PnE5	Orrington Center	10:40	0	7.5	93.4%	25.5	3.5	
			2	7.4	91.1%	24.5	4.6	
			4	7.2	88.2%	24.0	5.4	
			6	7.1	86.4%	23.4	6.1	
			8	7.1	86.5%	23.2	7.0	
PnE6	Bald Hill Cove	10:25	0	7.2	88.5%	23.8	6.7	
			2	7.2	88.0%	23.3	7.2	
			4	7.1	86.3%	22.7	8.2	
			6	7.1	86.0%	22.3	9.0	
			8	7.1	85.8%	22.1	9.1	
			10	7.2	86.8%	21.9	9.3	
			14					
PnE7	South Orrington	10:05	0	7.3	90.1%	24.0	6.7	
			2	7.3	88.5%	22.5	8.4	
			4	7.2	86.6%	21.3	11.0	
			6	7.2	86.4%	21.1	11.1	
			8					
PnE8	North Bucksport	9:50	0	7.7	92.7%	22.6	6.9	
			2	7.6	92.7%	23.0	7.9	
			4	7.4	89.6%	22.2	9.1	
			6	7.4	88.5%	21.1	10.7	
			8	7.4	87.9%	19.8	13.8	
PnE9	Winterport	6:51	0	7.3	88.2%	22.1	9.2	
			2	7.1	85.4%	21.5	10.4	
			4	7.2	86.3%	21.0	11.4	
			6	7.3	86.7%	20.2	12.3	
			8	7.3	86.9%	19.8	14.0	
PnE10	Confluence Marsh Stream	7:00	0	7.2	87.3%	20.5	15.0	
			2	7.2	87.0%	20.6	14.0	
			4	7.2	86.8%	20.5	14.0	
			6	7.4	88.6%	18.3	20.0	
			8					
PnE11	Adjacent Harriman Cove	7:58	0	7.4	88.1%	19.8	14.0	
			2	7.2	85.5%	19.5	14.6	
			4	7.4	87.5%	18.9	15.9	
			6	7.5	87.8%	17.8	17.8	
			8	7.4	86.0%	17.3	18.2	
PnE12	Fort Knox	7:25	0	7.4	86.2%	18.4	15.0	
			2	7.4	87.2%	18.3	17.2	
			4	7.5	87.9%	17.8	18.0	
			6	7.5	87.5%	17.5	18.2	
			8	7.4	85.7%	17.2	18.0	
			10	7.5	87.3%	17.0	19.5	
12	7.6	88.4%	16.9	19.7				

Station	Location	Time	Afternoon Run					Secchi Depth (m)
			Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)	Salinity (ppt)	
PnE1	Rte 9 / 1A Bridge Bangor / Brewer	1:30	0	7.9	101.1%	28.1	0.0	2.4
			2	7.7	98.2%	27.9	0.0	
			4	7.3	92.6%	27.6	0.0	
			6	7.3	92.3%	27.4	0.0	
			8	7.3	92.1%	27.3	0.0	
PnE2	South Brewer	1:45	0	7.7	97.1%	27.2	0.2	1.8
			2	7.5	94.1%	26.9	0.3	
			6	7.4	92.9%	26.9	0.3	
PnE3	N Orrington (ledges)	2:02	0	7.7	98.2%	27.7	0.6	
			2	7.6	95.6%	26.8	1.1	
			4	7.4	93.0%	26.4	2.2	
			6	7.4	92.0%	25.7	2.5	
			8	7.4	91.8%	25.6	2.5	
PnE4	Orrington (near PERC)	2:16	0	7.8	97.9%	26.4	2.0	
			2	7.5	93.6%	25.9	2.5	
			4	7.1	87.9%	25.1	3.7	
			6	7.2	88.4%	24.1	5.4	
			8	7.2	88.2%	24.0	5.3	
PnE5	Orrington Center	2:30	0	7.6	95.5%	26.2	2.7	1.6
			2	7.2	89.1%	24.9	4.2	
			4	7.3	89.6%	24.0	5.7	
			6	7.3	89.1%	23.5	6.4	
			8	7.2	87.9%	23.3	7.0	
PnE6	Bald Hill Cove	2:45	0	7.5	91.3%	23.7	5.2	1.6
			2	7.6	94.4%	24.1	7.4	
			4	7.5	91.6%	22.8	8.7	
			6	7.6	92.8%	22.8	8.7	
			8	7.7	94.1%	22.8	8.8	
			10					
			14					
PnE7	South Orrington	2:55	0	7.7	95.7%	24.3	7.0	1.6
			2	7.6	93.0%	23.1	8.0	
			4	7.4	89.4%	21.7	10.4	
			6	7.4	89.2%	21.5	10.6	
			8	7.4	89.1%	21.5	10.5	
PnE8	North Bucksport	3:15	0	8.3	103.8%	24.1	8.6	1.7
			2	8.1	98.4%	21.8	11.0	
			4	7.9	95.3%	21.0	12.5	
			6	8.0	94.7%	19.2	15.1	
			8	8.0	94.7%	19.0	15.7	
PnE9	Winterport	3:30	0	8.5	104.8%	22.7	10.7	1.7
			2	8.2	98.2%	20.1	14.1	
			4	8.1	96.2%	19.2	15.6	
			6	8.1	96.2%	19.2	15.6	
			8	8.2	96.9%	18.9	15.8	
PnE10	Confluence Marsh Stream	15:00	0	7.8	93.7%	18.0	21.5	
			2	8.0	94.9%	17.2	22.0	
			4	7.9	92.4%	16.2	23.0	
			6	7.9	91.3%	15.0	25.0	
			8					
PnE11	Adjacent Harriman Cove	3:55	0	8.3	99.9%	19.1	18.2	
			2	8.5	101.7%	18.6	18.8	
			4	8.5	101.4%	18.3	19.3	
			6	8.8	102.6%	16.4	21.8	
			8	8.8	103.3%	16.8	21.5	
PnE12	Fort Knox	4:05	0	8.6	104.3%	19.3	18.9	
			2	8.5	102.0%	18.3	20.3	
			4	9.0	104.0%	15.5	23.3	
			6	8.9	101.8%	14.8	23.9	
			8	9.0	102.9%	14.8	23.9	
			10	8.9	101.5%	14.6	24.1	
12	8.9	101.6%	14.7	23.9				

Penobscot River Intensive Survey - Field Data
Tributaries - Millinocket to Bucksport
Maine DEP

31-Jul-07

Station	Location	Time	Depth (m)	Morning Run		
				D.O. (ppm)	D.O. (% Sat.)	Temp (C)
EBPn	East Branch Penobscot	10:19	0	7.2	85.8%	24.2
			1	7.6	89.3%	23.4
			2			
MiS	Millinocket Stream	7:11	<1 (mid depth)	6.69	78.7%	23.5
MaR	Mattawamkeag R	8:30	<1 (mid depth)	6.9	84.3%	25.5
PiS	Piscataquis R	6:02	0	6.5	79.7%	25.7
			1	6.5	80.0%	25.9
			2	6.4	78.9%	26.0
			3	6.2	76.3%	25.9
			4	5.0	57.4%	22.2
PaR	Passadumkeag R	6:33	<1 (mid depth)	6.7	81.1%	25
PuS	Pushaw Stream	10:58	<1 (mid depth)	7	88.5%	27.4
StR	Stillwater R Orono	5:55	0	6.7	82.6%	26.0
			1	6.6	81.8%	26.3
			2	6.6	81.9%	26.4
KeS	Kenduskeag Str.	9:23	<1 (mid depth)	7.5	89.8%	24.4
SoS	Soudabascook Str	9:38	<1 (mid depth)	8.2	99.6%	25.2
MaS	Marsh Str Frankfort					

Afternoon Run				
Time	Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)
4:12	0	8.0	100.2%	26.9
	1	8.1	99.7%	25.9
	2			
	<1 (mid depth)	8.4	106.6%	27.6
1:22	<1 (mid depth)	8.37	103.5%	26.2
12:52	0	7.4	96.9%	29.4
	1	8.1	102.7%	27.6
	2	8.1	102.2%	27.3
	3	8.1	99.7%	25.9
	4			
2:23	<1 (mid depth)	7.4	94.2%	27.8
5:30	<1 (mid depth)	7.5	96.3%	28.3
13:20	0	7.6	96.7%	27.8
	1	7.6	96.2%	27.5
	2	7.6	96.2%	27.5
15:34	<1 (mid depth)	8.4	113.2%	31.1
15:52	<1 (mid depth)	8	106.2%	30.2

**Penobscot River Intensive Survey - Field Data
Riverine Stations - Millinocket to Bangor
Maine DEP**

1-Aug-07

Station	Location	Time	Depth (m)	Morning Run		
				D.O. (ppm)	D.O. (% Sat.)	Temp (C)
WBP1	Ferguson Lake Outlet	6:25	0	7.1	84.3%	24.1
			1	7.1	85.0%	24.2
			2	7.2	85.5%	24.2
			3	7.2	86.1%	24.3
			4			
WBP2	Dolby Pond Inlet	7:26	0	6.8	81.7%	24.6
			1	6.8	81.8%	24.6
			2	6.8	81.3%	24.6
			3	6.6	79.3%	24.6
			4			
WBP3a	Dolby Pond Dam (above)	7:54	0	8.9	109.4%	25.8
			1	8.9	108.7%	25.8
			2	8.7	107.1%	25.8
			3	8.5	103.9%	25.7
			4	8.4	102.8%	25.7
			5	8.2	100.0%	25.6
			6	7.4	89.7%	25.4
			7	7.0	85.4%	25.1
			8	6.6	78.9%	24.7
			9			
WBP3b	Dolby Pond Dam (below)					
WBP4	E Millinocket Dam (above)	9:01	0	8.0	96.7%	25.3
			1	7.8	95.3%	25.3
			2			
			3			
WBP4b	E Millinocket Dam (below)					
WBP5a	Rockabema Dam (above)	9:27	0	7.7	94.1%	25.4
			1	7.7	93.6%	25.3
			2	7.5	91.4%	25.1
			3	7.5	91.3%	25.1
			4	7.6	92.3%	25.1
			5			
WBP5b	Rockabema Dam (below)					
Pn1	Weldon Dam (above)	9:05	0	9.0	109.5%	25.3
			1	8.9	108.1%	25.2
			2	8.7	105.7%	25.2
			3	8.7	105.7%	25.2
			4	8.6	104.5%	25.2
			5	8.4	102.0%	25.2
			6	8.0	96.6%	24.9
			7			
Pn1b	Weldon Dam (below)					
Pn2	Winn	3:07	<1 (mid depth)	7.2	84.9%	23.6
Pn3	North Lincoln (bridge site)	7:54	<1 (mid depth)	7.3	86.2%	23.7
Pn4	South Lincoln (below Island)	7:05	0	7.1	86.2%	25.2
			1	7.0	85.5%	25.5
			2			
Pn5a	West Enfield Dam (above)	6:18	0	7.0	85.0%	25.2
			1	6.8	83.5%	25.8
			2	6.7	82.7%	26.1
			3	6.7	82.9%	26.2
			4	6.7	82.9%	26.2
Pn5b	West Enfield Dam (below)					
Pn6	Passadumkeag BL	8:05	0	7.5	90.4%	24.8
			1	7.2	87.1%	25
Pn7	Greenbush BL	9:20	0	7.0	85.2%	25.3
			1	6.9	84.1%	25.4
			2	6.9	84.3%	25.5
Pn8	Costigan BL	9:43	0	7.4	91.5%	26.2
			1	7.4	91.7%	26.3
			2	7.3	90.6%	26.4
Pn9a	Milford Dam (above)	5:40	0	7.3	89.3%	25.6
			1	7.2	88.6%	25.9
			2	7.1	87.7%	26.1
			3			
Pn9b	Milford Dam (below)					
Pn10a	Great Works Dam (above)	10:15	<1 (mid depth)	7.4	91.7%	26.3
Pn10b	Great Works Dam (below)					
P11	Orono nr Water Co. (bank)	6:05	<1 (mid depth)	6.6	81.8%	26.3
Pn12a	Veazie Dam (above)	6:50	0	6.5	81.0%	26.6
			1	6.5	81.1%	26.7
			2	6.6	82.5%	26.8
			3	6.5	81.3%	26.8
			4	6.6	82.5%	26.8
5	6.5	81.1%	26.7			
Pn12b	Veazie Dam (below)					
Pn13-AM	Bangor Dam (above)	7:39	0	7.0	87.5%	26.8
			1	7.0	87.7%	26.9
			2	7.0	87.7%	26.9
			3			
			4			
5						

Time	Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)
	1	7.5	91.0%	25.3
	2	7.5	90.9%	25.2
	3	7.6	92.6%	25.2
	4	7.6	92.6%	25.1
1:42	0	7.5	91.9%	25.6
	1	7.5	91.3%	25.4
	2	7.6	92.1%	25.2
	3	7.5	91.0%	25.0
	4			
1:56	0	10.4	134.2%	28.5
	1	10.2	126.0%	26.2
	2	9.0	110.2%	25.8
	3	8.6	105.2%	25.6
	4	8.3	101.4%	25.5
	5	8.2	100.5%	25.5
	6	7.5	91.6%	25.3
	7	7.0	85.0%	25.0
	8	6.5	78.1%	24.6
	9			
2:54	<1 (mid depth)	8.0	97.3%	25.2
3:08	0	8.2	100.8%	25.9
	1	8.1	99.0%	25.8
	2	8.1	98.9%	25.8
	3	8.1	98.7%	25.7
3:49	<1 (mid depth)	8.4	103.0%	25.9
3:59	0	8.7	107.9%	26.6
	1	8.6	106.4%	26.4
	2	8.5	105.3%	26.2
	3	8.5	105.0%	26.2
	4	8.5	104.9%	26.2
	5			
	6			
4:05	<1 (mid depth)	8.4	103.4%	26.5
3:25	0	9.1	117.9%	28.8
	1	9.1	113.4%	26.6
	2	8.6	106.2%	26.1
	3	8.5	104.6%	25.9
	4	8.1	99.5%	25.8
	5	7.7	94.2%	25.6
	6	6.2	75.6%	25.4
	7			
2:52	<1 (mid depth)	7.5	93.4%	26.6
2:34	<1 (mid depth)	8.8	113.0%	28.3
2:27	<1 (mid depth)	8.4	107.5%	28.1
1:55	0	8.0	101.8%	27.8
	1	8.3	105.3%	27.6
	2	8.3	99.3%	24.4
1:05	0	7.8	99.8%	28.1
	1	7.8	98.4%	27.3
	2	7.9	98.8%	26.8
	3	7.9	98.6%	26.7
	4	7.9	98.6%	26.7
	5			
1:25	<1 (mid depth)	7.0	88.0%	27.1
1:10	0	8.0	100.0%	26.8
	1	7.9	99.1%	27
1:55	0	7.3	91.4%	26.9
	1	7.3	91.6%	27.0
	2	7.3	91.6%	27.0
2:20	0	7.2	90.7%	27.2
	1	7.2	90.7%	27.2
	2	7.1	89.4%	27.2
4:20	0	7.4	93.7%	27.5
	1	7.4	93.9%	27.6
	2	7.3	92.8%	27.7
	3	7.3	92.9%	27.8
3:45	<1 (mid depth)	8.0	99.1%	26.3
3:00	<1 (mid depth)	7.7	95.9%	26.6
3:15	<1 (mid depth)	7.5	94.8%	27.4
12:30	<1 (mid depth)	8.1	104.6%	28.6
1:30	0	7.3	94.1%	28.5
	1	7.2	91.0%	27.4
	2	7.1	89.4%	27.2
	3	7.1	89.3%	27.1
	4	7.1	89.1%	27.0
	5	7.1	89.1%	27.0
1:58	<1 (mid depth)	8.0	101.3%	27.5
2:23	0	8.2	103.8%	27.5
	1	8.2	103.8%	27.5
	2	8.2	103.8%	27.5
	3	8.1	102.6%	27.5
	4	8.0	101.3%	27.5
	5			

Penobscot River Intensive Survey - Field Data
Tidal Riverine and Estuarine Stations - Bangor to Bucksport
Maine DEP

August 1 2007

Bangor Low Tide:

Station	Location	Morning Run						Afternoon Run						Secchi Depth (m)
		Time	Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)	Salinity (ppt)	Time	Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)	Salinity (ppt)	
PnE1	Rte 9 / 1A Bridge Bangor / Brewer	11:07	0	6.9	88.3%	28.1	0.0	1:04	0	7.2	91.5%	27.7	0.0	2.9
			2	6.8	86.3%	27.6	0.0		2	7.1	90.1%	27.6	0.0	
			4	6.5	82.2%	27.4	0.0		4	7.2	91.2%	27.5	0.0	
			6	6.6	83.3%	27.3	0.0		6	7.0	88.5%	27.4	0.0	
			8						8	7.0	88.5%	27.4	0.0	
PnE2	South Brewer	10:38	0	7.0	88.3%	27.3	0.0	1:26	0	7.4	93.8%	27.5	0.2	1.8
			2	7.0	88.2%	27.2	0.0		2	7.0	88.4%	27.2	0.4	
			4	7.1	89.3%	27.1	0.0		4	7.0	88.1%	27.0	0.5	
			6						6					
PnE3	N Orrington (ledges)	10:05	0	7.0	88.4%	27.3	0.1	1:40	0	7.3	91.8%	26.5	1.9	1.5
			2	6.5	81.8%	27.1	0.1		2	7.5	94.2%	26.3	2.4	
			4	6.7	84.2%	27.0	0.2		4	7.1	88.8%	26.0	2.5	
			6	6.9	86.7%	27.0	0.2		6	6.9	85.7%	25.3	3.6	
			8						8	7.1	88.1%	25.2	3.8	
PnE4	Orrington (near PERC)	9:49	0	7.4	93.2%	27.0	0.6	1:52	0	7.6	96.4%	26.7	2.8	1.7
			2	6.2	78.2%	27.0	0.8		2	7.1	88.3%	25.1	4.4	
			4	6.2	77.7%	26.6	1.1		4	7.1	87.7%	24.5	5.2	
			6	6.4	80.0%	26.4	1.3		6	7.1	87.4%	24.1	5.9	
			8						8	7.0	86.0%	23.9	6.2	
PnE5	Orrington Center	9:24	0	7.0	87.4%	26.3	1.3	2:02	0	7.8	98.5%	26.0	4.3	1.7
			2	6.9	86.1%	26.2	1.5		2	7.2	88.6%	23.8	6.8	
			4	6.7	81.7%	24.7	2.4		4	7.3	89.8%	23.6	7.3	
			6	6.2	76.9%	25.5	2.8		6	7.3	89.6%	23.4	7.6	
			8						8	7.3	89.5%	23.3	7.7	
PnE6	Bald Hill Cove	8:56	0	7.0	87.0%	25.7	2.4	2:22	0	7.7	96.1%	24.6	6.7	1.5
			2	6.7	83.1%	25.4	3.0		2	7.5	92.9%	23.9	7.7	
			4	6.7	82.8%	25.0	3.6		4	7.3	89.1%	22.6	9.3	
			6	6.7	82.7%	24.8	4.1		6	7.3	88.9%	22.4	9.6	
			8	6.6	81.6%	24.7	4.7		8	7.3	88.7%	22.2	9.7	
			10	6.6	80.9%	23.5	7.0		10	7.1	86.0%	21.9	10.3	
			12						12	7.2	87.1%	21.7	10.6	
PnE7	South Orrington	8:35	0	7.0	86.6%	25.2	3.3	2:36	0	7.9	98.6%	24.4	7.3	1.7
			2	6.6	81.5%	24.9	3.8		2	7.6	93.1%	22.8	9.2	
			4	6.6	81.0%	23.5	7.2		4	7.6	92.4%	22.1	10.2	
			6						6	7.7	93.2%	21.8	10.4	
			8						8	7.6	92.0%	21.7	10.8	
PnE8	North Bucksport	8:02	0	6.6	78.6%	22.4	5.7	2:50	0	7.8	95.1%	22.2	10.3	1.6
			2	6.7	82.1%	23.8	6.0		2	7.8	92.6%	20.5	11.3	
			4	6.7	81.9%	23.5	6.7		4	7.7	91.3%	19.5	14.4	
			6	6.8	82.9%	23.0	7.8		6	7.7	91.6%	19.3	15.5	
			8	6.8	82.4%	22.2	9.3		8	7.7	91.3%	19.1	15.7	
PnE9	Winterport	7:38	0	6.8	82.7%	23.0	7.4	3:02	0	7.9	97.9%	22.8	11.3	1.7
			2	6.8	82.9%	22.7	8.7		2	7.8	93.9%	20.3	14.4	
			4	6.8	82.6%	22.5	8.7		4	7.8	93.2%	19.4	16.0	
			6	6.8	82.4%	21.9	10.3		6	7.7	91.9%	19.3	16.1	
			8						8	7.8	92.6%	18.8	16.9	
PnE10	Confluence Marsh Stream	7:22	0	7.0	84.7%	22.0	9.7	3:14	0	7.8	95.3%	21.1	14.3	1.7
			2	6.8	82.3%	21.8	10.3		2	8.0	94.7%	18.1	18.6	
			4	6.9	82.9%	21.0	11.7		4	8.0	94.5%	18.0	18.6	
			6	6.9	82.8%	20.7	12.5		6	8.0	94.4%	18.0	18.5	
			8						8	8.0	94.5%	18.0	18.6	
PnE11	Adjacent Harriman Cove	7:07	0	7.0	83.8%	20.4	13.0	3:27	0	8.2	99.1%	18.3	21.5	2
			2	7.2	85.8%	19.7	14.6		2	8.7	100.8%	15.6	23.3	
			4	7.2	85.8%	19.4	15.5		4	8.8	100.7%	14.8	24.0	
			6	7.4	86.8%	17.6	18.9		6	8.6	98.2%	14.6	24.3	
			8	7.3	85.4%	17.3	19.3		8	8.6	97.8%	14.3	24.6	
PnE12	Fort Knox	6:24	0	7.3	86.3%	18.8	16.2	3:45	0	8.4	100.3%	17.6	21.8	1.6
			2	7.1	84.0%	18.7	16.7		2	8.5	99.8%	16.6	22.3	
			4	7.3	86.2%	18.4	17.3		4	8.5	98.8%	16.0	22.6	
			6	7.2	84.8%	18.2	17.5		6	8.7	100.3%	15.3	23.6	
			8	7.3	85.9%	18.2	17.4		8	8.7	100.2%	15.1	24.0	
			10	7.3	86.0%	18.1	17.9		10	8.8	101.2%	15.0	24.1	
			12	7.4	86.4%	17.2	19.4		12	8.7	99.8%	14.9	24.1	

Penobscot River Intensive Survey - Field Data
Tributaries - Millinocket to Bucksport
Maine DEP

August 1, 2007

August 1, 2007				Morning Run		
Station	Location	Time	Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)
EBPn	East Branch Penobscot	9:56	0	7.8	93.0%	24.2
			1	7.9	93.7%	23.9
			2			
MiS	Millinocket Stream	6:47	<1 (mid depth)	6.57	77.6%	23.7
MaR	Mattawamkeag R	8:25	<1 (mid depth)	7.5	90.1%	24.6
PiS	Piscataquis R	5:50	0	7.1	87.0%	25.7
			1	7.1	87.5%	26.0
			2	7.1	87.7%	26.1
			3	7.0	86.1%	25.9
			4	4.8	54.9%	22.0
PaR	Passadumkeag R	3:07	<1 (mid depth)	7.1	87.2%	25.8
PuS	Pushaw Stream	6:25	<1 (mid depth)	7.2	86.6%	24.7
StR	Stillwater R Orono	5:35	0	6.5	81.3%	26.8
			1	6.5	81.4%	26.9
			2	6.4	80.2%	26.9
KeS	Kenduskeag Str.	8:30	<1 (mid depth)	7.3	85.3%	23.1
SoS	Soudabascook Str	9:00	<1 (mid depth)	7.5	89.1%	24

Afternoon Run				
Time	Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)
4:00	0	7.9	98.8%	26.8
	1	7.8	95.1%	25.4
	2			
13:12	<1 (mid depth)	7.93	98.1%	26.2
2:45	<1 (mid depth)	7.1	91.0%	28.2
15:54	0	7.9	102.0%	28.6
	1	8.0	102.0%	27.9
	2	8.2	103.6%	27.4
	3	8.0	99.9%	26.7
	4			
1:25	<1 (mid depth)	7.6	96.2%	27.5
4:45	<1 (mid depth)	7.5	95.6%	27.9
12:38	0	7.3	91.4%	26.9
	1	7.1	89.3%	27.1
	2	7.0	88.2%	27.2
2:52	<1 (mid depth)	9	118.9%	29.9
3:14	<1 (mid depth)	8.8	117.0%	30.3

**Penobscot River Intensive Survey - Field Data
Riverine Stations - Millinocket to Bangor
Maine DEP**

2-Aug-07

Station	Location	Time	Depth (m)	Morning Run		
				D.O. (ppm)	D.O. (% Sat.)	Temp (C)
WBP1	Ferguson Lake Outlet	6:33	0	7.2	86.6%	24.7
			1	7.2	87.1%	24.8
			2	7.3	88.0%	24.8
			3	7.3	88.5%	24.8
			4	7.4	88.6%	24.7
WBP2	Dolby Pond Inlet	7:36	0	7.0	84.0%	24.8
			1	7.0	84.5%	24.8
			2	7.0	84.1%	24.9
			3	7.0	84.2%	24.8
			4			
WBP3a	Dolby Pond Dam (above)	8:15	0	7.8	95.3%	25.4
			1	8.0	97.5%	25.4
			2	8.0	97.0%	25.4
			3	7.9	95.5%	25.0
			4	7.6	92.1%	25.2
			5	7.2	87.7%	25.1
			6	7.2	87.0%	24.7
			7	6.8	81.5%	24.5
			8	6.5	77.9%	24.4
			9	6.3	74.9%	23.8
WBP3b	Dolby Pond Dam (below)					
WBP4	E Millinocket Dam (above)	9:15	0	7.5	90.5%	24.6
			1	7.5	90.5%	24.6
			2	7.5	89.6%	24.6
			3			
WBP5a	Rockabema Dam (above)	9:48	0	7.3	87.8%	24.8
			1	7.2	87.0%	24.6
			2	7.3	88.1%	24.6
			3	7.4	88.5%	24.5
			4	7.3	87.8%	24.4
			5			
WBP5b	Rockabema Dam (below)					
Pn1	Weldon Dam (above)	9:01	0	9.2	113.2%	25.9
			1	9.2	113.0%	25.8
			2	9.0	110.5%	25.8
			3	8.8	107.7%	25.6
			4	8.4	104.3%	26.4
			5	8.3	101.0%	25.3
			6	8.2	99.6%	25.2
			7	8.0	97.0%	25.1
Pn2	Winn	8:08	<1 (mid depth)	7.4	97.0%	23.9
Pn3	North Lincoln (bridge site)	7:48	<1 (mid depth)	7.4	87.9%	24.0
Pn4	South Lincoln (below Island)	6:55	0	7.2	87.8%	25.4
			1	7.1	87.0%	25.7
			2			
Pn5a	West Enfield Dam (above)	6:15	0	7.1	87.0%	25.7
			1	6.9	84.9%	25.9
			2	6.7	82.7%	26.1
			3	6.7	82.7%	26.1
			4	6.8	84.1%	26.2
Pn5b	West Enfield Dam (below)					
Pn6	Passadumkeag BL	6:13	0	7.5	89.9%	24.5
			1			
Pn7	Greenbush BL	7:32	0	7.2	87.9%	25.5
			1	7.2	88.1%	25.6
			2	7.1	87.0%	25.7
Pn8	Costigan BL	8:32	0	7.3	89.8%	25.9
			1	7.2	88.7%	26.0
			2	7.1	87.8%	26.2
Pn9a	Milford Dam (above)	9:55	0	7.4	91.9%	26.4
			1	7.5	93.1%	26.4
			2	7.4	92.0%	26.5
			3	7.4		
Pn9b	Milford Dam (below)					
Pn10a	Great Works Dam (above)	9:12	<1 (mid depth)	7.4	92.0%	26.5
Pn10b	Great Works Dam (below)		<1 (mid depth)			
P11	Orono nr Water Co. (bank)	6:30	<1 (mid depth)	6.6	82.1%	26.5
Pn12a	Veazie Dam (above)	7:15	0	6.7	83.8%	26.8
			1	6.6	82.5%	26.8
			2	6.6	82.5%	26.8
			3	6.7	83.8%	26.8
			4	6.6	82.5%	26.8
Pn12b	Veazie Dam (below)					
Pn13-AM	Bangor Dam (above)	8:05	0	7.0	87.7%	26.9
			1	7.0	87.7%	26.9
			2	6.9	86.6%	27.0
			3	6.7	84.1%	27.0
			4			

Time	Depth (m)	Afternoon Run		
		D.O. (ppm)	D.O. (% Sat.)	Temp (C)
12:52	0	7.3	90.0%	25.7
	1	7.4	90.2%	25.6
	2	7.5	91.8%	25.7
	3	7.5	92.0%	25.6
	4	7.5	91.8%	25.4
13:36	0	7.7	93.6%	25.4
	1	7.8	94.8%	25.4
	2	7.7	93.2%	25.0
	3	7.7	93.1%	25.0
	4			
13:50	0	8.9	109.6%	26.2
	1	9.1	111.5%	26.0
	2	8.9	109.3%	25.6
	3	8.1	98.1%	25.1
	4	7.5	90.9%	25.0
	5	7.4	89.4%	24.9
	6	7.2	86.5%	24.7
	7	7.0	83.8%	24.5
	8	6.7	79.7%	24.3
	9			
14:46	0	7.7	92.7%	24.7
	1			
14:55	0	7.8	94.8%	25.3
	1	7.8	94.9%	25.3
	2	7.8	94.5%	25.2
	3			
15:50	0	7.8	96.9%	26.2
	1	7.9	97.3%	25.9
	2	8.0	97.7%	25.7
	3	7.9	97.1%	25.7
	4	7.9	96.9%	25.6
	5			
4:07	<1 (mid depth)	7.5	96.9%	26.8
3:32	0	8.6	112.8%	29.5
	1	8.7	112.1%	28.5
	2	7.5	94.3%	27.1
	3	7.4	92.0%	26.5
	4	7.4	91.4%	26.1
	5	7.4	91.2%	26.0
	6	7.5	92.3%	25.9
	7			
2:52	<1 (mid depth)	8.4	110.2%	29.5
2:36	<1 (mid depth)	8.3	107.3%	28.7
2:03	0	7.7	99.1%	28.4
	1	7.8	99.8%	28.1
	2			
1:12	0	7.8	101.8%	29.2
	1	8.0	103.7%	28.8
	2	8.1	103.7%	28.1
	3	8.3	105.5%	27.7
	4	8.4	106.0%	27.3
5				
1:40	<1 (mid depth)	8.0	106.0%	28.1
2:10	<1 (mid depth)	8.1	102.4%	27.4
2:52	0	7.5	94.6%	27.3
	1	7.6	95.9%	27.3
	2	7.6	95.7%	27.2
3:19	0	7.3	92.9%	27.8
	1	7.3	92.9%	27.8
	2	7.4	94.0%	27.7
5:26	0	7.3	92.3%	27.4
	1	7.3	92.4%	27.5
	2	7.3	92.4%	27.5
	3			
4:45	<1 (mid depth)	7.9	98.4%	26.6
3:53	<1 (mid depth)	7.7	96.1%	26.7
4:20	<1 (mid depth)	7.5	94.5%	27.2
1:20	<1 (mid depth)	7.9	102.5%	28.9
1:50	0	7.6	96.7%	27.8
	1	7.5	95.5%	27.8
	2	7.5	95.5%	27.8
	3	7.5	95.1%	27.6
	4	7.4	92.9%	27.0
5	7.3	91.4%	26.9	
2:15	<1 (mid depth)	7.5	94.3%	27.1
2:40	0	7.5	95.1%	27.6
	1	7.5	95.1%	27.6
	2	7.5	95.1%	27.6
	3	7.5	95.1%	27.6
	4	7.5	95.1%	27.6
5	7.5	95.1%	27.6	

Penobscot River Intensive Survey - Field Data
Tidal Riverine and Estuarine Stations - Bangor to Bucksport
Maine DEP

2-Aug-07

Bangor Low Tide:

Station	Location	Time	Morning Run					Salinity (ppt)
			Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)		
PnE1	Rte 9 / 1A Bridge Bangor / Brewer	10:13	0	7.0	88.3%	27.3	0.0	
			2	6.9	87.1%	27.3	0.0	
			4	6.8	85.6%	27.2	0.0	
			6	6.8	85.6%	27.2	0.0	
			8					
PnE2	South Brewer	9:49	0	6.9	87.2%	27.4	0.0	
			2	6.9	86.9%	27.2	0.0	
			4	6.9	86.7%	27.1	0.0	
			6					
PnE3	N Orrington (ledges)	9:16	0	6.9	86.6%	27.0	0.0	
			2	6.9	86.6%	27.0	0.0	
			4	6.9	86.6%	27.0	0.0	
			6	6.9	86.6%	27.0	0.0	
			8	6.9	86.6%	27.0	0.1	
PnE4	Orrington (near PERC)	9:03	0	6.9	86.6%	27.0	0.1	
			2	6.6	82.9%	27.0	0.1	
			4	6.6	82.9%	27.0	0.1	
			6	6.8	85.4%	27.0	0.1	
			8					
PnE5	Orrington Center	8:48	0	6.9	86.5%	26.8	0.5	
			2	6.4	80.2%	26.7	0.7	
			4	6.5	81.4%	26.5	1.2	
			6					
			8					
PnE6	Bald Hill Cove	8:34	0	6.7	83.6%	26.2	1.6	
			2	6.4	79.9%	26.0	2.2	
			4	6.6	82.3%	25.9	2.4	
			6	6.4	79.6%	25.4	3.5	
			8	6.4	79.3%	24.8	4.7	
			10					
			12					
PnE7	South Orrington	7:54	0	6.7	83.2%	25.6	2.6	
			2	6.5	80.7%	25.4	3.3	
			4	6.6	81.7%	25.0	4.0	
			6	6.6	81.7%	24.9	4.2	
			8	6.6	81.7%	24.9	4.2	
PnE8	North Bucksport	7:38	0	6.7	82.2%	23.9	5.9	
			2	6.5	79.8%	23.8	6.3	
			4	6.5	79.8%	23.8	6.5	
			6	6.5	79.7%	23.4	7.4	
			8	6.6	80.6%	22.8	8.7	
PnE9	Winterport	7:18	0	6.8	83.0%	23.0	7.9	
			2	6.4	78.2%	22.9	8.5	
			4	6.7	81.6%	22.0	10.8	
			6	6.9	83.4%	21.2	12.2	
			8					
PnE10	Confluence Marsh Stream	7:05	0	6.8	82.2%	21.7	10.6	
			2	6.8	82.3%	21.7	10.7	
			4	6.7	81.2%	21.7	10.9	
			6	6.7	81.2%	21.6	11.2	
			8					
PnE11	Adjacent Harriman Cove	6:54	0	7.1	84.2%	18.9	16.3	
			2	7.0	83.0%	18.8	16.7	
			4	7.1	84.1%	18.6	17.2	
			6	7.2	84.5%	17.5	19.2	
			8	7.3	85.5%	17.3	19.5	
PnE12	Fort Knox	6:31	0	7.3	85.8%	17.8	18.5	
			2	7.1	83.3%	17.7	18.6	
			4	7.3	85.7%	17.7	18.7	
			6	7.3	85.7%	17.6	19.0	
			8	7.1	83.2%	17.4	19.4	
			10	7.3	85.3%	17.0	20.2	

Time	Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)	Salinity (ppt)	Secchi Depth (m)
12:49	0	7.2	91.5%	27.7	0.0	
	2	7.1	89.9%	27.5	0.0	
	4	7.0	88.6%	27.5	0.0	
	6	7.0	88.6%	27.5	0.0	
	8	7.0	88.6%	27.5	0.0	
1:07	0	7.0	88.5%	27.4	0.1	1.5
	2	6.9	87.1%	27.3	0.1	
	4	7.3	92.2%	27.3	0.1	
	6					
1:23	0	7.2	90.6%	26.4	2.4	
	2	7.1	89.3%	26.4	2.4	
	4	6.9	86.6%	26.2	2.6	
	6	6.9	86.3%	26.0	2.5	
	8	6.9	86.2%	25.8	3.1	
1:38	0	7.2	90.2%	25.9	3.3	
	2	7.4	92.9%	25.7	4.3	
	4	7.5	94.1%	25.6	4.4	
	6	7.2	89.6%	24.9	5.3	
	8	6.9	85.4%	24.5	5.5	
	10	6.9	85.3%	24.4	5.7	
1:48	0	7.5	94.2%	25.3	5.6	1.35
	2	7.2	89.5%	24.4	6.6	
	4	6.9	84.9%	23.5	7.7	
	6	6.9	84.6%	23.1	8.4	
	8	7.0	85.7%	23.0	8.4	
2:08	0	7.4	91.6%	23.7	8.2	
	2	7.2	88.2%	22.7	9.6	
	4	7.2	87.9%	22.5	9.7	
	6	7.2	88.1%	22.5	10.0	
	8	7.2	87.8%	22.1	10.8	
	10	7.1	86.1%	21.6	11.3	
	12					
2:17	0	7.6	94.6%	24.2	7.5	1.4
	2	7.5	92.5%	22.9	10.1	
	4	7.3	88.5%	21.4	12.0	
	6	7.4	89.7%	21.2	12.6	
	8	7.4	89.8%	21.2	12.7	
2:39	0	7.8	96.5%	22.9	10.6	
	2	7.7	94.0%	21.5	12.9	
	4	7.4	89.4%	20.1	15.6	
	6	7.5	89.9%	19.5	16.3	
	8	7.5	89.6%	19.1	17.0	
2:53	0	7.4	87.9%	18.6	17.7	1.5
	2	7.5	91.9%	21.2	14.4	
	4	7.5	90.3%	19.7	16.4	
	6	7.4	88.0%	18.7	17.4	
	8	7.5	88.8%	18.2	18.4	
3:11	0	7.6	89.7%	17.8	19.1	
	2	7.7	90.6%	17.5	19.7	
	4	7.7	90.4%	17.2	20.3	
	6	7.8	94.4%	19.1	19.2	
	8	7.9	95.2%	18.5	20.3	
	10	8.2	95.9%	16.4	22.3	
3:31	0	8.2	94.7%	15.5	23.2	
	2	8.2	94.4%	15.3	23.4	
	4	8.3	100.2%	18.1	22.0	
	6	8.6	99.0%	15.1	24.0	
	8	8.6	98.9%	14.9	24.4	
3:42	0	8.6	98.8%	14.8	24.6	1.4
	2	8.6	98.4%	14.6	24.7	
	4	8.6	98.3%	14.5	24.8	
	6	8.5	99.7%	16.3	23.0	
	8	8.6	100.4%	15.9	23.6	
	10	8.7	101.0%	15.5	24.0	
3:42	0	8.5	97.6%	14.8	24.6	
	2	8.4	96.0%	14.5	24.8	
	4	8.5	96.9%	14.3	25.1	
	6	8.5	96.8%	14.2	25.2	
	8					
	10					

Penobscot River Intensive Survey - Field Data
Tributaries - Millinocket to Bucksport
Maine DEP

2-Aug-07

2-Aug-07				Morning Run		
Station	Location	Time	Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)
EBPn	East Branch Penobscot	9:44	0	7.8	94.0%	24.8
			1	8.0	95.9%	24.5
			2			
MiS	Millinocket Stream	6:59	<1 (mid depth)	6.6	79.0%	24.4
MaR	Mattawamkeag R	8:18	<1 (mid depth)	7.2	86.5%	24.6
PiS	Piscataquis R	5:54	0	7.1	87.8%	26.2
			1	7.2	89.2%	26.3
			2	7.1	88.1%	26.4
			3	6.6	81.0%	25.8
			4			
PaR	Passadumkeag R	8:10	<1 (mid depth)	7.1	86.9%	25.6
PuS	Pushaw Stream	6:47	<1 (mid depth)	6.5	78.5%	24.9
StR	Stillwater R Orono	5:55	0	6.7	82.6%	26.0
			1	6.6	81.8%	26.3
			2	6.6	81.9%	26.4
KeS	Kenduskeag Str.	9:23	<1 (mid depth)	7.5	89.8%	24.4
SoS	Soudabascook Str	9:38	<1 (mid depth)	8.2	99.6%	25.2

Afternoon Run				
Time	Depth (m)	D.O. (ppm)	D.O. (% Sat.)	Temp (C)
4:03	0	7.1	89.9%	27.5
	1	7.3	90.1%	26.1
	2			
13:05	<1 (mid depth)	8.16	101.1%	26.3
2:58	<1 (mid depth)	7.7	100.5%	29.2
1:00	0	8.7	111.7%	28.3
	1	8.9	113.7%	28.0
	2	9.1	115.4%	27.6
	3	9.0	113.6%	27.3
	4			
1:18	<1 (mid depth)	7.8	95.4%	25.6
4:40	<1 (mid depth)	6.9	89.1%	28.6
13:20	0	7.6	96.7%	27.8
	1	7.6	96.2%	27.5
	2	7.6	96.2%	27.5
15:34	<1 (mid depth)	8.4	113.2%	31.1
15:52	<1 (mid depth)	8	106.2%	30.2

Penobscot River Ambient Water Quality

Maine DEP

July 31 - August 2, 2007

Sta.	Location	Date	TP ppb	PO4-P ppb	TKN ppm	NH3-N ppm	NO2,3-N _i ppm	NO3 _t ppm	Chl a ppb	TBODu ppm	CBODu ppm	NBODu ppm	BOD Kd /day	E Coli MPN ct/100ml	Flow cfs	Secchi* m
WBP1	Ferguson Lake Outlet	31-Jul	5	1	0.2	0.01	0.05	0.11	2.5	2.9	2.6	0.3				
		1-Aug	6	1	0.3	0.01	0.06	0.1	3.1	2.7	2.5	0.2				
		2-Aug	6	2	0.4	0.01	0.06	0.1	2.3	2.7	2.5	0.2				
WBP2	Dolby Pond Inlet	31-Jul	23	9	0.3	0.02	0.06	0.13	2.4	3.7	3.4	0.3				
		1-Aug	22	2	0.3	0.02	0.06	0.12	3.7	2.9	2.6	0.3				
		2-Aug	19	7	0.5	0.02	0.06	0.12	2	2.8	2.5	0.3				
WBP3	Above Dolby Pond Dam	31-Jul	22	2	0.5	0.01	0.02	0.24	27	7.3	6.3	1.0				
		1-Aug	23	2	0.4	0.01	0.02	0.32	32	7.4	6.1	1.3				
		2-Aug	22	2	0.7	0.01	0.04	0.2	15	4.6	3.9	0.7				
WBP5	Above Rockabema Dam	31-Jul	21	2	0.4	0.01	0.04	0.19	15	5.8	5.2	0.6				
		1-Aug	22	2	0.5	0.01	0.05	0.18	17	4.2	3.6	0.6				
		2-Aug	19	3	0.5	0.01	0.06	0.14	7.9	3.2	2.9	0.3				
Pn1	Above Weldon Dam	31-Jul	17	2	0.4	0.01	0.01	0.16	13.9	5.7	5.1	0.6				
		1-Aug	20	2	0.3	0.01	0.01	0.16	20	4.4	3.8	0.6				
		2-Aug	21	2	0.6	0.01	0.01	0.28	32	5.8	4.6	1.2				
Pn3	North Lincoln	31-Jul	15	1	0.2	0.01	0.02	0.11	7.2	4.0	3.6	0.4				
		1-Aug	15	2	0.4	0.01	0.02	0.11	7.8	3.0	2.6	0.4				
		2-Aug	18	1	0.5	0.01	0.02	0.13	12	3.6	3.1	0.5				
Pn4	South Lincoln	31-Jul	14	1	0.2	0.01	0.01	0.12	5.3	3.8	3.3	0.5				
		1-Aug	14	2	0.5	0.01	0.02	0.11	5.3	2.6	2.2	0.4				
		2-Aug	15	1	0.4	0.01	0.02	0.11	7.4	3.5	3.1	0.4				
Pn5	Above West Enfield Dam	31-Jul	16	1	0.2	0.01	0.01	0.16	6.5	5.2	4.6	0.6				
		1-Aug	16	2	0.3	0.01	0.01	0.1	5.5	2.9	2.5	0.4				
		2-Aug	15	2	0.5	0.01	0.01	0.13	5.7	3.8	3.3	0.5				
Pn9	Above Milford Dam	31-Jul	15	1	0.3	0.01	0.02	0.11	4.9	4.0	3.6	0.4				
		1-Aug	12	1	0.3	0.01	0.01	0.08	3.8	2.7	2.4	0.3				
		2-Aug	13	2	0.4	0.01	0.01	0.09	3.5	3.5	3.2	0.3				
Pn12	Above Veazie Dam	31-Jul	24	2	0.4	0.01	0.01	0.16	6.5	4.4	3.8	0.6				
		1-Aug	22	11	0.3	0.02	0.01	0.01	5.2	2.4	2.4	0.0				
		2-Aug	21	3	0.6	0.01	0.02	0.1	3.4	3.4	3.1	0.3				
Pn13	Above Bangor Dam	31-Jul	22	1	0.3	0.01	0.01	0.12	6.8	4.0	3.5	0.5				
		1-Aug	21	1	0.5	0.01	0.02	0.13	5.2	3.3	2.8	0.5				
		2-Aug	19	2	0.5	0.01	0.02	0.12	3.7	3.3	2.9	0.4				
Pne2	South Brewer	31-Jul	44	3	0.5	0.02	0.01	0.16	13.1	4.9	4.3	0.6				
		1-Aug	25	2	0.3	0.01	0.01	0.14	8.2	3.3	2.7	0.6				
		2-Aug	22	2	0.5	0.01	0.02	0.19	5.9	3.6	2.9	0.7				
Pne5	Orrington Center	31-Jul	32	5	0.4	0.02	0.01	0.09	15	4.0	3.7	0.3				
		1-Aug	42	5	0.5	0.02	0.03	0.14	17	3.9	3.4	0.5				
		2-Aug	66	8	0.8	0.02	0.03	0.26	21	4.2	3.2	1.0				
Pne7	South Orrington	31-Jul	62	8	0.5	0.03	0.01	0.09	13	3.9	3.6	0.3				
		1-Aug	39	5	0.4	0.02	0.01	0.05	15	3.4	3.2	0.2				
		2-Aug	60	7	0.6	0.03	0.04	0.22	16	4.0	3.2	0.8				
Pne9	Winterport	31-Jul	37	14	0.4	0.03	0.01	0.01	4.2	3.2	3.2	0.0				
		1-Aug	43	8	0.4	0.03	0.01	0.05	10	3.2	3.0	0.2				
		2-Aug	66	11	0.5	0.03	0.01	0.01	9.3	3.4	3.4	0.0				
Pne12	Fort Knox	31-Jul	37	14	0.4	0.03	0.01	0.01	4.2	3.2	3.2	0.0				
		1-Aug	48	2	0.3	0.02	0.02	0.04	4.9	3.2	3.1	0.1				
		2-Aug	79	13	0.4	0.03	0.01	0.01	4.8	2.4	2.4	0.0				

* All secchi depth recorded as (>) indicates that secchi disk was visible on the river bottom

** Provisional flow data at the USGS West Enfield gage

Penobscot River Ambient Water Quality

Maine DEP

July 31 - August 2, 2007

Ambient Tributary Samples

Sta.	Location	Date	TP ppb	PO4-P ppb	TKN ppm	NH3-N ppm	NO2,3-N _i ppm	NO3 _f ppm	Chl a ppb	TBODu ppm	CBODu ppm	NBODu ppm	BOD Kd /day	E. Coli MP ct/100ml	Flow cfs	Secchi m
MiS	Millinocket Stream	31-Jul	8	2	0.3	0.01	0.02	0.07	1.2	3.5	3.3	0.2				
		1-Aug	7	2	0.2	0.01	0.02	0.07	1.6	2.5	2.3	0.2				
		2-Aug	5	2	0.4	0.01	0.03	0.08	1.4	3.0	2.8	0.2				
EBPn	East Branch Penobscot	31-Jul	7	1	0.1	0.01	0.01	0.08	1	2.8	2.5	0.3				
		1-Aug	7	2	0.2	0.01	0.02	0.07	1	1.8	1.6	0.2				
		2-Aug	7	2	0.4	0.01	0.02	0.06	1	2.4	2.2	0.2				
MaR	Mattawamkeag River	31-Jul	11	1	0.2	0.01	0.02	0.08	1	3.6	3.3	0.3				
		1-Aug	8	1	0.2	0.01	0.02	0.11	1	2.3	1.9	0.4				
		2-Aug	9	1	0.5	0.01	0.03	0.07	1	2.0	1.8	0.2				
PiS	Piscataquis River	31-Jul	8	2	0.2	0.01	0.01	0.1	2.6	3.4	3.0	0.4				
		1-Aug	8	2	0.2	0.01	0.02	0.09	1.9	2.3	2.0	0.3				
		2-Aug	8	2	0.4	0.01	0.02	0.11	2.2	3.0	2.6	0.4				
PaR	Passadumkeag	31-Jul	12	2	0.2	0.01	0.01	0.08	2.6	3.2	2.9	0.3				
PuS	Pushaw Stream	31-Jul	27	2	0.5	0.01	0.01	0.13	13	6.4	5.9	0.5				
StR	Stillwater River	31-Jul	16	1	0.4	0.01	0.01	0.14	6.6	4.8	4.2	0.6				
		1-Aug	12	1	0.4	0.01	0.01	0.09	4.5	2.9	2.6	0.3				
		2-Aug	11	1	0.5	0.01	0.01	0.1	3	3.7	3.3	0.4				
KeS	Kenduskeag R	1-Aug	14	1	0.6	0.01	0.04	0.12	2	3.8	3.5	0.3				
SoS	Souadabscook	1-Aug	12	1	0.4	0.01	0.02	0.1	2.4	2.7	2.4	0.3				
Mas	Marsh Stream	31-Jul	14	1	0.3	0.01	0.01	0.13	3.8	3.6	3.1	0.5				

** Provisional flow data at the USGS gages in Medford, and Mattawamkea

Appendix D. Penobscot River Dischargers Effluent Quality

Sta.	Location	Date	TP ppb	PO4-P ppb	TKN ppm	NH3-N ppm	NO2,3-N _i ppm	NO3 _t ppm
KATW	Katahdin Millinocket	31-Jul	2100	1700	1.7	0.63	0.24	1
		1-Aug	1900	1700	2	0.63	0.31	1
		2-Aug	1800	1500	2.1	0.61	0.34	1.6
Mill	Millinocket	31-Jul	2600	2200	14	12	0.78	13
		1-Aug	2500	2200	14	12	0.78	13
		2-Aug	2600	2200	14	12	0.72	13
KATE	Katahdin East Millinocket	31-Jul	30	8	0.8	0.1	0.93	1.2
		1-Aug	38	9	0.8	0.1	1.3	1.7
		2-Aug	28	9	0.9	0.07	1.6	1.9
LPT	Lincoln Paper & Tissue	31-Jul	420	240	4	0.26	0.01	1
		1-Aug	330	230	3.7	0.24	0.02	1
		2-Aug	420	240	4	0.21	0.01	1
Linc	Lincoln	31-Jul						
		1-Aug						
		2-Aug	2700	2500	2.2	0.14	9.8	9.7
Howl	Howland	2-Aug	2400	2000	7	3	0.22	4.9
OldT	Old Town	31-Jul	3400	3000	3.9	1.3	16	17
		1-Aug	4300	4300	4.9	2.5	15	16
		2-Aug	3800	3500	4.5	1.4	16	17
REDS	Red Shield Old Town	31-Jul	1600	1200	13	1.2	0.27	3.3
		1-Aug	1600	1300	4.8	1.5	0.24	3.8
		2-Aug	1600	1200	7.1	1.6	0.41	3.8
Oron	Orono	31-Jul	3600	3400	2.6	0.5	18	1
		1-Aug	3900	3600	3	0.49	18	17
		2-Aug	3400	2900	3	0.21	16	21
Veaz	Veazie	31-Jul						
		1-Aug						
		2-Aug	5100	4700	3	0.21	13	12
Bang	Bangor	31-Jul	2900	2500	10	7	9.3	16
		1-Aug	4200	4000	14	9.6	11	6.4
		2-Aug	4400	3900	13	10	13	23
Brew	Brewer	31-Jul	1400	1300	1.4	0.13	11	11
		1-Aug	760	780	1.7	0.16	12	10
		2-Aug	1700	1500	1.9	0.14	12	12
Wint	Winterport	31-Jul						
		1-Aug						
		2-Aug	6600	5100	43	34	0.09	45
Buck	Bucksport	31-Jul						
		1-Aug						
		2-Aug	5200	3700	40	31	0.08	40
VER	Verso Paper Bucksport	31-Jul	1600	1100	1.4	0.01	0.02	0.8
		1-Aug	1300	1000	2	0.01	0.01	1
		2-Aug	1100	660	2.1	0.02	0.01	0.39

DupPS	Wastewater Duplicate							

* Treatment Facility data:

BOD5 DEP	BOD5 WWTP	TBODu	CBODu	NBODu	DO*	TSS*	Flow*	
ppm	ppm	ppm	ppm	ppm	ppm	ppm	mgd	
5.7	6.5	20	17	3	4.4	10	14.5	2.39735766
5.4	8	19	16	3	4	11	14.2	
8.7	6.8	22	17	5	4.2	10.5	12.8	
4.3		62	9	53	6.2		0.555	1.4493913
3.8	9	61	8	53	6.8	5	0.528	
7.4	10	66	13	53	5	5	0.546	
2	2.2	4.4	3	1	3.2	10.2	15.5	1.46455118
3	1.8	5.8	4	2	3.5	7.1	17.6	
2.1	1.6	3.3	2	1	3.4	5.3	16.9	
14		49	45	4			12.1	3.00381667
16		47	43	4			11.3	
18		61	57	4			11.3	
								#DIV/0!
5.1	3.95	18			1.5	7	0.297	
8.8		45	25	20	5.1			3.92799597
9.3		29	25	4	7.9	5	0.673	
5.4	5	28	24	4	7.8	8	0.679	
8.4	5	34	30	4	7.5		0.659	
9.3		43	30	13			15.3	2.32198806
9.2		40	25	15			15.4	
15		38	23	15			15.3	
			74	-74	2.71	7	0.613	5.62032967
3.8	9	18	22	-4	3.3	9	0.626	
5.4		28	6	22	2.5		0.548	
								4.97384615
6.5		28	32	-4	6.9		0.13	
8.3	8	63	34	29	8	8	5.16	5.777182
5.6	13	57	77	-20	8.21	12	5.01	
8.2	8	80	37	43	8.4	9	4.96	
3.1	1	8.9	9	0	7.2	1	1.154	4.87160494
2.7	3	9.9	19	-9	9.2	3	1.125	
3.4	3	12.0	12	0	6.8	2	1.192	
210		500	306	194				
140		380	207	173				
8.1	13	38				28	13.8	#DIV/0!
7.6	8	33				16	14.3	
9.7	7	44				15	13.6	
