Rollins South Phosphorus Buffer Schedule

8/29/2008

Roadway Alignment and/or Turbine Site	Station to Station	BMP No.	Watershed	BMP	Size (ft.)	Imp. Area (acres)	Export Coefficient	Pre-Treatment lbs P/year	Treatment Factor	Post Treatment lbs P/year
Allocation Factor (P) = 0.044, Allocation Area (A) = 18.45 ac, Project Phosphorus Budget (PPB) = 0.812 Lbs P/yr										
SA	302+00-317+50	FB15	Little Eskatassis	FB	80	0.569	1.75	0.99575	0.4	0.3983
SA	321+00	DT32	Little Eskatassis	FB	180	0.0459	1.75	0.080325	0.4	0.03213
SA	323+80	DT34	Little Eskatassis	FB	180	0.0459	1.75	0.080325	0.4	0.03213
SP	0+00-3+00	FB1	Little Eskatassis	FB	55	0.1102	1.75	0.19285	0.4	0.07714
SP	2+00-3+72	DT1	Little Eskatassis	FB	120	0.0632	1.75	0.1106	0.4	0.04424
S20		S20	Little Eskatassis	FB	180	0.0551	1.75	0.096425	0.4	0.03857
SR	500'	FBI	Little Eskatassis	FB	50	0.0689	1.75	0.120575	0.4	0.04823
						0.9582		**1.67685**		**0.67074**
100% Treatment										
General Standards = Treatment of 75% of Developed Areas										
S22			Madagascal St.	FB	150	0.0551	1.75	0.096425	0.4	0.03857
SA	316+50	DT30	Madagascal St.	FB	120	0.0459	1.75	0.080325	0.4	0.03213
SA	319+00	DT31	Madagascal St.	FB	120	0.0459	1.75	0.080325	0.4	0.03213
SA	321+50	DT33	Madagascal St.	FB	120	0.0459	1.75	0.080325	0.4	0.03213
SK	16+00-21+00	FB1	Madagascal St.	FB	55	0.1837	1.75	0.321475	0.4	0.12859
S13		S13	Madagascal St.	FB	180	0.0551	1.75	0.096425	0.4	0.03857
SM	0+00-8+00	FB1	Madagascal St.	FB	35	0.1469	1.75	0.257075	0.4	0.10283
SM	8+00-13+00	MB1	Madagascal St.	FB	50	0.0918	1.75	0.16065	0.4	0.06426
SM	27+00-31+00	FB3	Madagascal St.	FB	55	0.1469	1.75	0.257075	0.4	0.10283
S18		S18	Madagascal St.	FB	180	0.0551	1.75	0.096425	0.4	0.03857
SN	0+00-3+00	FB1	Madagascal St.	FB	55	0.1102	1.75	0.19285	0.4	0.07714
S12		S12	Madagascal St.	MB	180	0.0551	1.75	0.096425	0.4	0.03857
SK	11+50-16+00	MB1	Madagascal St.	MB	80	0.1653	1.75	0.289275	0.4	0.11571
						1.2029		**2.105075**		**0.84203**
100% Treatment										
Allocation Factor (P) = 0.042, Allocation Area (A) = 75.12 ac, Project Phosphorus Budget (PPB) = 3.155 Lbs P/yr										
SA	0+00-2+27		Madagascal	None		0.083	1.75	0.14525	1	0.14525
SA	2+27-9+30		Madagascal	FB	35	0.067	1.75	0.11725	1	0.11725
SA	2+27-9+30		Madagascal	FB	35	0.067	1.75	0.11725	1	0.11725
SA	76+00-92+00	FB5	Madagascal	FB	55	0.588	1.75	1.029	0.4	0.4116
SA	94+50-125+00	FB6	Madagascal	FB	55	1.12	1.75	1.96	0.4	0.784
SA	125+00-132+00	FB8	Madagascal	FB	35	0.129	1.75	0.22575	0.4	0.0903
SA	132+00	DT1	Madagascal	FB	100	0.073	1.75	0.12775	0.4	0.0511
SA	134+00	DT2	Madagascal	FB	100	0.073	1.75	0.12775	0.4	0.0511
SA	136+00	DT3	Madagascal	FB	100	0.073	1.75	0.12775	0.4	0.0511
SA	138+00	DT4	Madagascal	FB	120	0.053	1.75	0.09275	0.4	0.0371
SA	140+00	DT6	Madagascal	FB	120	0.037	1.75	0.06475	0.4	0.0259
SA	141+50-144+50	FB8	Madagascal	FB	35	0.055	1.75	0.09625	0.4	0.0385
SA	144+50	DT9	Madagascal	FB	100	0.037	1.75	0.06475	0.4	0.0259
SA	229+40	DT13	Madagascal	FB	100	0.092	1.75	0.161	0.4	0.0644
SA	232+00-236+00	FB10	Madagascal	FB	55	0.147	1.75	0.25725	0.4	0.1029
SB	22+00-35+00	FB2	Madagascal	FB	55	0.4775	1.75	0.835625	0.4	0.33425
SB	36+00	DT3	Madagascal	FB	180	0.0367	1.75	0.064225	0.4	0.02569
SB	36+00-39+00	FB3	Madagascal	FB	55	0.1102	1.75	0.19285	0.4	0.07714
SO1		SO1	Madagascal	FB	180	0.0551	1.75	0.096425	0.4	0.03857
SA	0+00-2+27		Madagascal	None		0.083	1.75	0.14525	1	0.14525
SA	92+00-94+50		Madagascal	None		0.092	1.75	0.161	1	0.161
						3.5485		**6.209875**		**2.89555**
89.01% Treatment										
Allocation Factor (P) = 0.044, Allocation Area (A) = 264.45 ac, Project Phosphorus Budget (PPB) = 11.64 Lbs P/yr										
SA	9+30-26+73		Upper	FB	55	0.23	1.75	0.4025	1	0.4025
SA	26+73-76+00	FB4	Upper	FB	55	1.81	1.75	3.1675	0.4	1.267
SA	125+00-133+50	FB7	Upper	FB	35	0.156	1.75	0.273	0.4	0.1092
SA	138+50	DT5	Upper	FB	120	0.037	1.75	0.06475	0.4	0.0259
SA	140+50	DT7	Upper	FB	120	0.037	1.75	0.06475	0.4	0.0259
SA	142+50	DT8	Upper	FB	100	0.037	1.75	0.06475	0.4	0.0259
SA	144+50	DT10	Upper	FB	100	0.037	1.75	0.06475	0.4	0.0259
S11			Upper	FB	150	0.0551	1.75	0.096425	0.4	0.03857
SA	146+50-189+50	MB1	Upper	FB	80	0.228	1.75	0.399	0.4	0.1596
SA	190+80-196+00	MB2	Upper	FB	80	0.191	1.75	0.33425	0.4	0.1337
SA	196+00-223+50	FB9	Upper	FB	55	1.01	1.75	1.7675	0.4	0.707
S15			Upper	FB	55	0.0551	1.75	0.096425	0.4	0.03857
SA	223+50	DT11	Upper	FB	100	0.103	1.75	0.18025	0.4	0.0721
SA	226+30	DT12	Upper	FB	100	0.11	1.75	0.1925	0.4	0.077
SA	239+00	DT14	Upper	FB	100	0.11	1.75	0.1925	0.4	0.077
SA	242+00-245+00	FB11	Upper	FB	80	0.11	1.75	0.1925	0.4	0.077
SA	257+00-274+00	FB13	Upper	FB	55	0.624	1.75	1.092	0.4	0.4368
SA	277+00-287+00	FB14	Upper	FB	55	0.367	1.75	0.64225	0.4	0.2569
SA	290+00	DT19	Upper	FB	100	0.367	1.75	0.64225	0.4	0.2569
SA	292+00	DT20	Upper	FB	100	0.367	1.75	0.64225	0.4	0.2569
SA	292+00	DT21	Upper	FB	100	0.367	1.75	0.64225	0.4	0.2569
SA	294+00	DT22	Upper	FB	100	0.367	1.75	0.64225	0.4	0.2569
SA	294+00	DT23	Upper	FB	100	0.367	1.75	0.64225	0.4	0.2569
SA	296+00	DT24	Upper	FB	100	0.367	1.75	0.64225	0.4	0.2569
SA	296+00	DT25	Upper	FB	100	0.367	1.75	0.64225	0.4	0.2569
SA	298+00	DT26	Upper	FB	120	0.367	1.75	0.64225	0.4	0.2569
SA	298+00	DT27	Upper	FB	120	0.367	1.75	0.64225	0.4	0.2569
SA	300+00	DT28	Upper	FB	120	0.367	1.75	0.64225	0.4	0.2569

Rollins South Phosphorus Buffer Schedule

8/29/2008

Roadway Alignment and/or Turbine Site	Station to Station	BMP No.	Watershed	BMP	Size (ft.)	Imp. Area (acres)	Export Coefficient	Pre-Treatment lbs P/year	Treatment Factor	Post Treatment lbs P/year
SA	302+00	DT29	Upper	FB	120	0.367	1.75	0.64225	0.4	0.2569
SB	7+50-19+00	FB1	Upper	FB	55	0.422	1.75	0.7385	0.4	0.2954
SO3		SO3	Upper	FB	150	0.0551	1.75	0.096425	0.4	0.03857
SB	19+00	DT1	Upper	FB	120	0.0367	1.75	0.064225	0.4	0.02569
SB	20+00	DT2	Upper	FB	100	0.0735	1.75	0.128625	0.4	0.05145
SE	4+70	DT1	Upper	FB	55	0.0845	1.75	0.147875	0.4	0.05915
SE	7+00-19+50	FB1	Upper	FB	55	0.459	1.75	0.80325	0.4	0.3213
SE	19+50-29+00	FB2	Upper	FB	55	0.3489	1.75	0.610575	0.4	0.24423
SE	29+00	DT2	Upper	FB	120	0.0918	1.75	0.16065	0.4	0.06426
SE		SO7	Upper	FB	150	0.0551	1.75	0.096425	0.4	0.03857
SE	35+00-43+00	FB3	Upper	FB	55	0.2938	1.75	0.51415	0.4	0.20566
SE	43+00-52+00	FB4	Upper	FB	55	0.3489	1.75	0.610575	0.4	0.24423
SE	52+00	DT3	Upper	FB	120	0.11	1.75	0.1925	0.4	0.077
SE	55+00	DT4	Upper	FB	120	0.0735	1.75	0.128625	0.4	0.05145
SO9			Upper	FB	180	0.0551	1.75	0.096425	0.4	0.03857
SI	2+00-7+50	FB1	Upper	FB	55	0.257	1.75	0.44975	0.4	0.1799
SO6			Upper	FB	180	0.0551	1.75	0.096425	0.4	0.03857
SF	2+80-15+50	FB1	Upper	FB	55	0.4665	1.75	0.816375	0.4	0.32655
SO5		SO5	Upper	FB	180	0.0551	1.75	0.096425	0.4	0.03857
SK	2+00-4+30	DT10	Upper	FB	100	0.0845	1.75	0.147875	0.4	0.05915
SO	0+00-4+00	MB1	Upper	FB	35	0.0735	1.75	0.128625	0.4	0.05145
SO	0+00	DT1	Upper	FB	100	0.0643	1.75	0.112525	0.4	0.04501
SM	4+50	DT1	Upper	FB	100	0.0643	1.75	0.112525	0.4	0.04501
SM	9+00	DT3	Upper	FB	100	0.0643	1.75	0.112525	0.4	0.04501
SM	15+00	DT4	Upper	FB	180	0.1102	1.75	0.19285	0.4	0.07714
SM	18+00-27+00	FB2	Upper	FB	55	0.33	1.75	0.5775	0.4	0.231
SA	241+60	DT15	Upper	MB	150	0.092	1.75	0.161	0.4	0.0644
SA	247+60	DT16	Upper	MB	150	0.092	1.75	0.161	0.4	0.0644
SA	248+00-257+00	FB12	Upper	MB	80	0.331	1.75	0.57925	0.4	0.2317
SA	274+00-277+00	MB3	Upper	MB	80	0.11	1.75	0.1925	0.4	0.077
SA	287+00-290+00	MB4	Upper	MB	80	0.73	1.75	1.2775	0.4	0.511
SA	290+00	DT18	Upper	MB	150	0.367	1.75	0.64225	0.4	0.2569
SE	31+50-35+00	MB1	Upper	MB	80	0.1286	1.75	0.22505	0.4	0.09002
SK	4+30		Upper	MB	150	0.0918	1.75	0.16065	0.4	0.06426
SK	9+00		Upper	MB	150	0.0735	1.75	0.128625	0.4	0.05145
SK	11+75		Upper	MB	150	0.0992	1.75	0.1736	0.4	0.06944
SA	189+50-190+80		Upper	None		0.048	1.75	0.084	1	0.084
SE	2+00-4+70		Upper	None		0.0992	1.75	0.1736	1	0.1736
	2+00-6+00	RS1	Upper	Rock Sand wich	150	0.195	1.75	0.34125	0.4	0.1365
97.61% Treatment						**15.9342**		**27.88485**		**11.55**

Rollins South Permanent 16' Road Location Schedule

8/21/2008

Roadway Alignment	Station**	Road Location*		
		Left	Center	Right
SA	0+00-9+50		X	
SA	9+50-76+00	X		
SA	76+00-125+00			X
SA	125+00-133+50		X	
SA	133+50-138+50			X
SA	138+50-146+50		X	
SA	146+50-225+00	X		
SA	225+00-236+00			X
SA	236+00-288+00	X		
SA	288+00-302+00		X	
SA	302+00-314+00	X		
SA	314+00-323+39		X	
SB	0+00-39+00	X		
SE	0+00-31+50	X		
SE	31+50-43+00			X
SE	43+00-52+00	X		
SE	52+00-57+00			X
SI	0+00-7+50	X		
SF	0+00-15+50	X		
SK	0+00-11+50	X		
SK	11+50-20+50			X
SM	0+00-13+00		X	
SM	13+00-30+50	X		
SN	0+00-2+50	X		
SP	0+003-3+50			X
SO	0+00-4+00		X	

* - Indicates the location of the permanent 16' wide roadway within the temporary 32' wide corridor. For example "Left", "Right" and "Center" indicate that the the permanent road will be located in either the left lane, right lane or centered on the 32' corridor. The remaining portion of the 32' wide corrdior will be re-vegetated.
** - Locations may be revised based on field conditions.

Rollins South Culvert Schedule

8/21/2008

Culvert #	Station +/-	Drainage Area (ac.)	Size (in.)	Length (ft.)+/-
SA-C1	14+25	3.62	12	50
SA-C2	18+50	9.03	18	50
SA-C3	20+25	11.03	18	50
SA-C4	28+83	4.63	15	60
SA-C4A	30+60	17.44	24	60
SA-C5	32+00	15.16	24	60
SA-C6	34+50	22.05	24	60
SA-C7	37+50	5.29	15	50
SA-C8	40+50	9.6	18	80
SA-C9	Omitted			
SA-C13	52+50	5.21	15	75
SA-C14	56+50	10.58	18	80
SA-C15	60+00	5.78	15	70
SA-C16	63+50	3.98	15	70
SA-C17	67+50	5.43	15	60
SA-C17A	74+00	??	18	60
SA-C27	78+50	8.01	18	120
SA-C28	84+50	10.87	18	60
SA-C29	91+00	20.55	24	80
SA-C30	93+90	16.52	24	120
SA-C31	97+00	10.88	18	60
SA-C32	100+00	6.22	15	55
SA-C33	106+20	7.42	18	85
SA-C34	115+00	5	15	70
SA-C35	119+50	8.59	18	50
SA-C36	146+50	4.03	15	70
SA-C36A	203+50	??	15	60
SA-C37	231+00	3.48	15	50
SA-C38	247+25	19.16	24	50
SA-C39	252+00	6.41	15	50
SA-C40	255+25	4.57	15	50
SA-C41	259+00	9.56	24	50
SA-C42	259+60	2.75	12	50
SA-C43	275+00	3.96	15	50
SA-C44	284+25	9.42	18	50
SA-C45	286+37	5.57	18	50
SA-C46	298+40	0.59	12	50
SA-C47	300+40	0.57	12	50
SB-C11	24+50	3.03	12	70
SB-C12	37+50	6.79	18	90
SD-C10	4+00	0.44	12	80
SE-C18	13+00	10.65	18	55
SE-C19	15+50	15.45	24	55
SE-C20	18+00	26.92	24	55
SE-C21	21+85	7.72	18	65
SE-C22	36+00	3.55	15	70
SE-C23	46+50	3.6	15	65
SF-C25	8+50	11.48	24	60
SF-C26	14+70	3.77	12	60
SI-C24	1+80	3.5	15	70
SM-C1	26+75	??	15	60
SS-C1	0+60	??	15	50

?? SMALL OR INSIGNIFICANT DRAINAGE AREA

LEGEND:

SA – ROADWAY CORRIDOR DESIGNATION (I.E. SOUTH SITE; CORRIDOR A)

SO1 – TURBINE SITE (I.E. SOUTH SITE; TURBINE SO1)

FB – FOREST BUFFER BMP

MB – MEADOW BUFFER BMP

DT – DITCH TURN OUT BMP

LS – LEVEL SPREADER BMP

SA–C1 – ALIGMENT NAME–CULVERT DESIGNATION

Stantec

Stantec Consulting Services Inc.
5 LAN Drive, Suite 300
Westford MA U.S.A.
01886
Tel. 978.692.1913
Fax. 978.692.4578
www.stantec.com

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Consultants

Legend

Notes

1. REFER TO SHEET C–001 FOR EXISITNG AND PROPOSED LEGENDS.
2. REFER TO SHEETS C–501 THROUGH C–508 FOR TYPICAL DETAILS.
3. REFER TO SHEETS C–618–S AND C–613–N FOR CULVERT, DITCH TURNOUT, LEVEL SPREADER AND FINAL LOCATION OF 16' WIDE ACCESS ROAD TABLES

DEP SUBMISSION
NOT FOR CONSTRUCTION
SEPTEMBER 5, 2008

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD
SITE LOCATION DEVELOPMENT PERMIT	GCK	GCK	08.09.05

File Name: s00147–c618.dwg	BVD	GCK	PC	08.09.05
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project
EVERGREEN WIND POWER III, LLC

ROLLINS WIND PROJECT (ROLLINS)
ROLLINS NORTH
LINCOLN, BURLINGTON, LEE, WINN AND MATTAWAMKEAG
PENOBSCOT COUNTY, MAINE

ROLLINS NORTH SITE

Title
PHOSPHORUS BUFFER, ROAD REVEGETATION & CULVERT SCHEDULES

Project No. 195600147
Scale NOT TO SCALE

Drawing No. C-618-S
Sheet 93 of 93
Revision 0