

# APPENDIX 1

**GMP/Kingdom Community Wind (KCW)  
 Lowell, Vermont  
 Summary of Delineated Wetlands - KCW Wind Farm Site  
 Prepared by VHB Pioneer  
 February 2010**

Wetland ID	Delineated Area <sup>1</sup> (Sq. Feet)	Cowardin Classification <sup>2</sup>	Principle Functions and Values <sup>3</sup>	VSWI Class <sup>4</sup>	Sheet (Appendix 5)	Comments
2009-A1	4180	PEM/FO1Y	GW	III	2	Adjacent to recent cleared area; discharge to stream 2009-TB-C3
2009-B1	660	PEM1Y	GW	III	2	Contains network of drainage patterns
2009-B2	1570	PEM1Y	GW	III	2	Drainage patterns
2009-B3	14780	PFO1Y	GW	III	2	Histic epipedon; saturated to surface with drainage patterns; wetland extends beyond investigation area
2009-B4	12540	PEM/FO1Y	GW, W	III	2	Extends off investigation area, deer droppings; tip-ups
2009-B5	11830	PEM1Y	GW	III	1	Histosol (18+"); Saturated to surface
2009-B6	4170	PEM/FO1Y	GW	III	5	Drains to SC/TB-15; extends beyond investigation area
2009-B7	1950	PEM1Y	GW	III	5	Drainage pattern; saturated to surface; drains from 2009-SC-C18
2009-B8	980	PEM1Y	GW,SS	III	5	Small feature, adjacent to 2009-SC-C18; saturated to the surface with drainage channels
2009-B9	4560	PEM/FO1Y	GW	III	6	Histic epipedon (10" to bedrock); sulfidic odor; saturated to surface with tip-ups; wetland extend beyond investigation area
2009-C1	1800	PEM1Y	GW	III	3	Saturated to the surface with drainage channels
2009-C2	2080	PEM1Y	STP, W	III	3	Close in proximity to access road, drainage channels; drains to 2009-SC-1
2009-C3	6410	PEM1Y	GW	III	2	Drainage patterns; saturated to surface; drained by 2009-TB-3
2009-C4	1980	PEM1Y	GW, SS	III	2	Drained by 2009-SC-C4; sulfidic odor
2009-C5	8800	PEM1Y	GW, W	III	2	Histic epipedon soils, saturated to the surface; extends beyond investigation area
2009-C6	2250	PEM/FO1Y	GW, SS	III	1	Drains to 2009-SC-C6; drainage channels; mineral histic soils
2009-C7	2640	PEM/FO1Y	GW	III	1	Extends off investigation area; stream 2009-TB-C7 drains through wetland
2009-C9	6430	PEM1Y	GW	III	1	Hydrologically connected to 2009-C10/C8 via 2009-SC-C8; distinct topo break

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2009-C10/C8	7550	PEM1Y	GW,SS	III	1	Drains to wetland 2009-SC-C8; saturated to surface; drainage channels
2009-C11	4420	PEM1Y	GW	III	1	Drains 2009-SC-C8; histic epipedon
2009-C12	1230	PEM1Y	GW, W	III	6	Moose droppings observed at time of investigation, drains to 2009-SC-B-3
2009-C13	1540	PEM1Y	GW, W	III	5	On side slope; drainage channels, saturated to surface
2009-C14	1790	PEM1Y	GW,SS	III	5, 6	2009-SC-C18 drains through wetland; saturated to surface; mineral histic soils in upper 12"
2009-C15	25320	PEM/SS1Y	GW, STP	III	5	Wetland feature along road between a distinct topo break; soils mucky with many prominent redoximorphic features; extends beyond investigation area
2009-C16	2230	PEM/FO1Y	GW	III	5	Saturated to the surface
2009-C17	2450	PEM1Y	GW, W	III	5	Base of hill, seep-drainages, saturated to surface, moose droppings at time of investigation; drains to 2009-SC- C19
2009-C18	730	PEM1Y	GW	III	5	Histic epipedon with drainage channels; saturated to surface
2009-C19	8700	PEM/FO1Y	GW,W	III	5	Drainage channels; saturated to surface; histic epipedon
2009-C20	10610	PEM1Y	GW, W	III	5	Saturated to surface; histosol; Organic matter; drains to 2009-SC-B6
2009-C21	2250	PEM1Y	GW,SS	III	5	Along stream 2009-SC-C25; histic epipedon soils
2009-C22	1430	PEM1Y	GW, SS	III	5	Saturated to surface; drainage channels; surrounds stream 2009-SC- C25
2009-C23	4190	PEM1Y	GW	III	6	Saturated to surface; tip-ups; drainage channels; hydrologically connected to 2009-SC-C15a and 2009-SC-C15b
2009-C24	1650	PEM1Y	SS, W	III	7	Histic epipedon; drains to stream 2009-SC-C28
2009-C25	3980	PEM1Y	GW	III	7	Mineral histic soils; receives hydrology from 2009-SC-C30; drains into 2009-SC-C54
2009-C26	8570	PEM/FO1Y	GW, W	III	7	Saturated to the surface; soils have organic layer >12"; Stream 2009-C33 drains to feature

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2009-C27	6130	PEM/FO1Y	GW, W	III	7	Larger feature; saturated to the surface hydrologically connected to 2009-C26; berm in between features
2009-C28	890	PEM1Y	GW	III	7	Small feature located in depression; mucky soils with distinct redoximorphic deposits; drainage channels
2009-C29	1410	PEM1Y	GW	III	7, 8	At base of ridge in depression; drains to 2009-SC-C34; receives groundwater discharge
2009-C30	1700	PEM1Y	GW	III	7	Isolated pocket wetland at base of topography break
2009-C31	1350	PEM1Y	GW, SS	III	8	Wetland 2009-C31 along stream 2009-SC-C35; drainage channels, at depression
2009-C32	3910	PEM1Y	GW, W, RTE	III	8	Close in proximity to male fern ID, histic epipedon; saturated to surface with drainage channels; moose droppings abundant
2009-C33	770	PEM1Y	GW	III	8	Purple orchid found in feature, saturated to surface; side slope feature; hydrologically connected to wetland 2009-C34 via stream 2009-SC-C36
2009-C34	1390	PEM1Y	GW	III	8	Hydrologically connected to wetland 2009-C34 via intermittent stream 2009-SC-C36; saturated to the surface with drainage channels
2009-C35	560	PEM1Y	-	III	8	Saturated to the surface; intermittent stream 2009-SC-C37 drains from feature
2009-C36	4850	PEM1Y	GW, W	III	8	Feature saturated to the surface with drainage channels; distinct topographical break
2009-C37/C38	10470	PEM/FO1Y	GW, W	III	8	Feature saturated to the surface, mineral histic soils with > 12" organic layer; hydrologically connected via groundwater to feature 2009-C36; drains to wetland 2009-C55 via intermittent stream 2009-C64
2009-C39	6480	PEM1Y	GW, W	III	8	Saturated to surface, drains to mapped VHD stream (2009- SC-C39); distinct topo break; drains to ephemeral drainage 2009-SC-C60
2009-C40	610	PEM1Y	GW	III	9	Seep wetland, distinct topo break, small feature, confined by bedrock outcrops

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2009-C41	290	PEM1Y	GW, SS	III	9	Borders stream 2009-SC-C41; drainage channels
2009-C42	10040	PEM1Y	GW, SS, W	III	9	Large wetland feature surrounds stream 2009-SC-C42; drainage channels; saturated to surface; histic epipedon with hydric soils >12"
2009-C43	180	PEM1Y	-	III	9	Seep fed wetland; saturated to surface; drainage channels
2009-C44	10280	PEM/FO1Y	GW, SS, W	III	2	Seep fed wetland; saturated to surface; drainage channels; previously recon feature; mineral histic soils; distinct topo; in close proximity to recently logged area; hydrologically connected to 2009-C4 via stream 2009-SC-C4
2009-C45	6870	PEM/FO1Y	GW,W	III	2	Extends beyond investigation area; saturated to surface; hummock and hollow micro topography; mineral histic soils; connected to 2009-C45 via stream 2009-SC-C4
2009-C46	1450	PEM1Y	GW	III	2	Drains via stream 2009-SC-C49; mineral histic soils
2009-C47	3710	PEM1Y	GW	III	2	Outside of investigation area; hydrologically connected to wetland 2009-C48; via stream 2009-SC-C50; stream 2009-TB-C3 and 2009-C49 drain into wetland feature
2009-C48	6310	PEM/FO1Y	GW	III	2	Originally recon feature; extends beyond investigation area; saturated to the surface with drainage channels; hydrologically connected to 2009-C47 via stream 2009-SC-C50
2009-C49	7100	PEM/FO1Y	GW	III	3	Distinct topo break; saturated to surface with tip-ups; previously disturbed feature with man made ditches altering hydrology
2009-C50	42690	PEM/FO1Y	GW, W	III	1	Slightly disturbed feature on edge; distinct topo break; previously recon feature; cedar swamp hummock and hollow micro topography
2009-C51	4270	PEM1Y	GW	III	1	Slightly disturbed feature; previously recon; saturated to surface with drainage channels
2009-C52	3320	PEM1Y	GW, SS	III	6	Stream 2009-TB/SC-15 drains through feature; feature between bedrock outcrops; saturated to surface

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2009-C53	<b>9150</b>	PEM1Y	GW	III	6	Drains from wetland 2009-TB/SC-C15; saturated to the surface with drainage channels
2009-C54	<b>980</b>	PEM1Y	-	III	7	Small, isolated feature; saturated to surface
2009-C55	<b>5750</b>		GW	III	8	Drains from wetland 2009-SC-C64; saturated to the surface
2009-C56	<b>2780</b>	PEM1Y	GW	III	8	Hydrologically connected to wetland 2009-C55; hummock and hollow microtopography; saturated to the surface
2009-C57	16510	PEM1Y	GW, W	III	8	Large feature; saturated to the surface; multiple drainage channels; extends beyond investigation area
2009-C58	<b>1250</b>	PEM1Y	GW, W	III	8	Wetlands 2009-C56, 2009-C57, and 2009-C58 hydrologically connected
2009-C59	1440	PEM1Y	GW	III	8	Isolated feature on plateau; extend beyond investigation area
2009-C60	<b>6120</b>	PEM1Y	GW	III	8	Saturated to the surface with tip-ups
2009-C61	<b>1520</b>	PEM1Y	GW	III	8	Saturated to the surface with tip-ups
2009-C62	<b>3870</b>	PEM1Y	GW	III	4	Distinct topo; hydrologically connected to 2009-SC-C62
2009-C63	890	PEM1Y	GW	III	8	Distinct topo; isolated feature; saturated to the surface; stream 2009 SC-C68 drains through feature

Note: **Bold** Delineated Area denotes that wetland delineation is completely within the Direct Study Limits.

<sup>1</sup>Delineated areas determined on Krebs & Lansing ground survey or VHBP GPS data collections.

<sup>2</sup>Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitat of the United States. U.S. Fish and Wildlife Service. FWS/OBD-79/31. 103pp.

<sup>3</sup>U.S. Army Corps of Engineers (USACE) - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a

<sup>4</sup>As delineated, all wetland resources on-site are considered Class III under the 2002 Vermont Wetland Rules, subject to review and approval by the Vermont ANR.

GMP/Kingdom Community Wind (KCW)  
 Lowell, Vermont  
 Summary of Delineated Streams - KCW Wind Farm Site  
 Prepared by VHB Pioneer  
 February 2010

Stream ID	Associated Wetlands	Average Ordinary High Water Width (OHW) Feet	Flow Regime (Ephemeral Intermittent and Perennial) <sup>1</sup>	Sheet (Appendix 5)	Comments
2009-SC-B1		1	ephemeral	3,6	Cobble/ organic substrate; drains from direct study area; no flow at time of survey
2009-SC-B2		1	ephemeral	6	Step pool complex; low flow; organic matter and bedrock substrate; drains to stream 2009-TB/SC-C13
2009-SC-B3	2009-C12	1	ephemeral	6	Shallow bedrock; drains from wetland 2009-C12
2009-SC-B4	2009-B6	1	intermittent	5, 6	Tributary to 2009-TB-C15; flows from wetland 2009-B6; riffle pool complex
2009-SC-B5		2	intermittent	4, 5	Riffle pool complex; erosion low; drains off investigation area
2009-SC-B6	2009-C20	2	intermittent	5	Cobble/organic substrate; drains from wetland 2009-C20
2009-SC-C1	2009-C2	2	intermittent	3	Drains wetland 2009-C2; low banks; cobble substrate' flows off investigation area
2009-SC-C2		3	intermittent	2, 3	Boulder/cobble substrate; drains through 12" PPC; moderate erosion of stream banks
2009-TB-C3	2009-C3, 2009-C47	6	perennial	2	Cobble, gravel, boulder substrate; moderate sloughing of banks; 18" HDPE culvert (perched); drains from wetland 2009-C3 to wetland 2009-C47
2009-SC-C4	2009-C3, 2009-C4, 2009-C44, 2009-C45	3	perennial	2	Organic substrate; low banks
2009-SC-C5	2009-B2	3	intermittent	2	Sandy substrate; low banks
2009-SC-C6	2009-C6	3	perennial	1	Drains from wetland 2009-C6; drains to 2009-TB-C7; cobble/small boulder substrate
2009-TB-C7	2009-C7	7	perennial	1	Boulder/cobble gravel substrate; extends outside of direct study area; drains to wetland 2009-C7 off of investigation area
2009-SC-C8	2009-C10/C8, 2009-C-9	2	intermittent	1	Silty/sandy substrate; drains through wetland 2009-C8 and 2009-C9 from wetland 2009-C11
2009-SC-C8b	2009-C10/C8	2	intermittent	1	Silty/sand substrate; side channel of 2009-SC-C8; drains through wetland 2009-C10
2009-TB/SC-C9		4	perennial	3	Small perennial stream; step-pools; drains to eroded road; continues into recon area
2009-SC-C9a		2	intermittent	3	Small feature drains into 2009-SC-C9
2009-SC-C10		2	intermittent	3, 6	Gravel boulder substrate; ephemeral upstream; receives some runoff from road; eroded banks
2009-SC/TB-C11		4	perennial	6	Small perennial stream; exposed bedrock boulder and cobble substrate; moderate erosion; step-pool complex; connects to recon stream
2009-TB-C12		6	perennial	6	Bedrock, boulder, cobble substrate, step pool/riffle complex;

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2009-SC-C12a		3	perennial	6	Drainage into 2009-TB-C12; boulder, cobble substrate, minimal erosion
2009-TB/SC-C13		4	perennial	6	Boulder, cobble substrate with bedrock outcrops; continues off delineation area
2009-SC-C13a		2	intermittent	6	Tributary to 2009-SC-C13; low banks; minimal erosion
2009-TB/SC-C14		4	perennial	6	Gravel, boulder cobble, stone substrate; bedrock outcrops; erosion minimal; step pools
2009-SC-C15a	2009-C23	3	perennial	6	Drains from wetland 2009-C23; boulder, cobble, organic material bottom, defined banks; drains into 2009-TB/SC-C15
2009-SC-C15b	2009-C23	2	intermittent	6	Drains into wetland 2009-C23; organic material bottom, low banks
2009-TB/SC- C15	2009-C52; 2009-C55	5	perennial	5, 6	Cobble, boulder substrate with bedrock outcrops, continues into recon area, most likely have a crossing for access
2009-TB/SC-C16	2009-B7	4	perennial	5	Drains from wetland 2009-B7; cobble and boulder substrate; low banks minimal/no erosion
2009-SC-C17	2009-B7	3	intermittent	5	Drains to stream 2009-SC/TB-C16; boulder/rock substrate; drains from 2009-B7
2009-SC-C18	2009-B7; 2009-B8; 2009-C14	4	perennial	5, 6	Drains into wetland 2009-B14; through wetland 2009-B8; boulder, small cobble substrate
2009-SC-C19	2009-C17	2	ephemeral	5	Cobble, boulder and organic substrate; no water at time of site visit
2009-SC-C20		2	ephemeral	5	Coarse woody debris, low water levels at time of site visit; not associated with features
2009-SC-C21		2	ephemeral	5	Small isolated ephemeral drainage
2009-SC-C22		3	perennial	4	Organic substrate, becomes larger feature off investigation area; ephemeral feature upstream
2009-SC-C23		1	intermittent	4	Organic substrate, drains from bedrock outcrop; poorly defined banks
2009-SC-C24		2	ephemeral	5	Drains from ATV trail; soil and leaf substrate; low banks
2009-TB/SC-C25	2009-C21; 2009-C22	4	perennial	5	Mapped VHD stream; boulder cobble substrate, well-defined banks
2009-SC-C25a	2009-C21	2	ephemeral	5	Ephemeral drainage to 2009-TB/SC-C25; low banks
2009-SC-C26		2	ephemeral	5	Small feature; cobble/organic substrate; drains to stream 2009-TB/SC-C25
2009-SC-C27		2	intermittent	4, 5	Drains off investigation area; organic substrate, low banks
2009-SC-C28	2009-C24	3	perennial	7	Drains from wetland 2009-C24; organic/ boulder substrate; drains into stream 2009-SC-C29
2009-SC-C29		3	intermittent	7	Step pool complex; coarse woody debris, OHW smaller in bedrock outcrops at higher elevations
2009-SC-C30	2009-C25	3	intermittent	6, 7	Sandy/small cobble substrate, drains to wetland 2009-C25

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2009-SC-C31		4	intermittent	6, 7	Intermittent stream at higher elevations turns into a perennial stream towards boundary of investigation area, low banks, boulder and cobble substrate
2009-SC-C31A		2	intermittent	6, 7	Tributary to 2009-SC-C31; cobble, boulder substrate
2009-SC-C32		2	ephemeral	6	Organic and cobble substrate; small drainage
2009-SC-C33	2009-C26	3	intermittent	7	Low banks, poorly defined channel, coarse woody debris and downed trees in channel
2009-SC-C34	2009-C29	3	intermittent	8	Intermittent stream with ephemeral reaches; small stone and cobble substrate; 4" water depth; drains from wetland 2009-C29
2009-SC-C34a		2	ephemeral	8	Small tributary of 2009-SC-C34, low banks, water in stream at time of delineation
2009-SC-C35	2009-C31	3	intermittent	8	Stream crosses ridgeline; boulder, cobble, gravel substrate with bedrock outcrops; ephemeral feature at higher elevations through outcrops
2009-SC-C36	2009-C33; 2009-C34	4	intermittent	8	Drains from wetland 2009-C33 to wetland 2009-C34, boulder/cobble substrate
2009-SC-C36a		2	ephemeral	8	Drains from 2009-SC-C35; minimal flow; off investigation area
2009-SC-C37	2009-C35	3	intermittent	8	Roots/leaves organic substrate; drains from wetland 2009-C35
2009-SC-C38		3	intermittent	8, 9	Boulder, cobble, gravel substrate; tributary to 2009-SC-C39; step-pool complex
2009-SC-C39	2009-C39	4	perennial	8, 9	Mapped VHD stream; boulder cobble substrate, well-defined banks, drains from wetland 2009-C39
2009-SC-C40		2	ephemeral	9	Side slope feature; drains off investigation area
2009-SC-C41	2009-C41	4	intermittent	9	Bordered by wetland fringe 2009-C41; step pool complex; boulder and cobble substrate; drains off investigation area
2009-SC-C42	2009-C42	2	intermittent	9	Substrate small boulder and cobble; step pool formation drains wetland 2009-C42
2009-SC-C42a	2009-C43	1	ephemeral	9	Drains wetland 2009-C43; low banks; organic substrate
2009-SC-C44		2	ephemeral	9	Ephemeral drainage drains off of investigation area; small cobble and organic substrate
2009-SC-C49	2009-C46; 2009-C47	3	perennial	2	Intermittent stream; boulder/cobble substrate hydrologically connected to wetland 2009-C46 and 2009-C47; well defined banks
2009-SC-C49a		2	intermittent	2	Tributary to 2009-SC-C49; low banks, no flow at time of site visit
2009-SC-C50	2009-C47; 2009-C48	3	intermittent	2	Stream feature between wetland 2009-C47 and wetland 2009-C48, well defined banks
2009-SC-C51	2009-C1	3	perennial	3	Drains off investigation area from wetland 2009-C1; previously recon stream; mineral substrate with small step pools; very low banks
2009-SC-C52	2009-C1	1	ephemeral	3	Drains from wetland 2009-C1; diffuse channel, small feature, poorly defined banks, mineral substrate

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2009-TB/SC-C53		3	perennial	3	Defined banks; cobble/small boulder substrate; previously reconed feature; drains to 2009-TB-C9
2009-SC-C54	2009-C25	3	perennial	7	Boulder/cobble substrate; drains from wetland 2009-C25; step-pool complex
2009-SC-C54A		3	intermittent	7	Side channel off of 2009-SC-C54; boulder/cobble substrate
2009-SC-C54B		2	ephemeral	7	Small tributary to 2009-SC-C54; organic substrate
2009-SC-C55		3	perennial	7	Bedrock, boulder and cobble substrate; 2' depth of water at time of delineation; well-defined banks; drains off of investigation area
2009-SC-C56		3	perennial	7	Bedrock, small boulder, cobble substrate; drains to previously recon stream
2009-SC-C56A		3	perennial	7	Main tributary of 2009-SC-C56; well defined banks; drains from groundwater seep
2009-SC-C57		3	perennial	7	Bedrock outcrop; step pool complex; previously recon stream
2009-SC-C58	2009-C50	1	ephemeral	1	Organic substrate; drains to drainage ditch
2009-SC-C59	2009-C50	2	intermittent	1	Drains into wetland 2009-C50, small boulder and organic substrate; well defined channel
2009-SC-C60	2009-C39	2	ephemeral	8	Organic substrate, drains from wetland 2009-C39
2009-SC-C61		2	ephemeral	8, 9	Organic and mineral substrate, low banks, fed by groundwater
2009-SC-C62		3	intermittent	8, 9	Organic substrate; low banks; diffuse channel
2009-SC-C62A		2	intermittent	4	Flows off ROW; organic substrate; low banks
2009-SC-C63		3	intermittent	4	Boulder, small cobble, organic material substrate;
2009-SC-C64	2009-C37/38; 2009-C55	3	intermittent	8	Drainage flows between wetlands 2009-C37/38 and wetland 2009-C55; 2-3" water in stream at time of delineation
2009-SC-C65		2	ephemeral	8	Ephemeral drainage drains to 2009-SC-C34; organic substrate
2009-SC-C66		1	ephemeral	4	Ephemeral drainage; isolated feature, groundwater and seep fed
2009-SC-C67		1	ephemeral	8	Organic substrate; leaf debris; poorly defined channels
2009-SC-C68	2009-C63	3	perennial	8	Drains wetland 2009-C63; boulder cobble substrate; well defined banks
2009-SC-C69	2009-C34	2	intermittent	8	Well defined banks; cobble and organic substrate; hydrologically connected to 2009-C34

<sup>1</sup>Stream flow regime determined based on qualitative observations of instream hydrology indicators and geomorphic characteristic and are subject to professional

**GMP/Kingdom Community Wind (KCW)**

**Lowell, Vermont**

**RTE and Uncommon Plant Findings - KCW Wind Farm Site**

**Prepared by VHB Pioneer**

**February 2010**

<b>Plant ID #</b>	<b>Date Identified</b>	<b>Scientific Name</b>	<b>Common Name</b>	<b>Rank<sup>1</sup></b>
p33-1	7/23/2009	<i>Dryopteris filix-mas</i>	Male fern	S2 (S-T)
p33-2	7/23/2009	<i>Dryopteris filix-mas</i>	Male fern	S2 (S-T)
p33-3	7/23/2009	<i>Dryopteris filix-mas</i>	Male fern	S2 (S-T)
p43	7/30/2009	<i>Sorbus decora</i>	Northern Mountain Ash	S3
p47	7/30/2009	<i>Nabalus trifoliata</i>	Three-leaved rattlesnake root	S2
p58	7/31/2009	<i>Sorbus decora</i>	Northern Mountain Ash	S3
p61	7/31/2009	<i>Sorbus decora</i>	Northern Mountain Ash	S3

<sup>1</sup>Rarity rank is determined in *Rare and Uncommon Native Plants of Vermont* ( Nongame and Natural Heritage Program, Vermont Department of Fish and Wildlife, August 2009)



**GMP/Kingdom Community Wind (KCW)**

**Lowell, Vermont**

**Summary of Delineated Montane Spruce-Fir Forest Stands- KCW Wind Farm Site**

**Prepared by VHB Pioneer**

**February 2010**

Stand ID	Total Mapped Area (s.f.)	Prism Plot Data (yes/no)	Average Elevation (ft- ASL)	Slope Aspect
MSFF - 1	1,130	No	2,600	Northeast
MSFF - 2	1,030	No	2,650	West
MSFF - 3	9,220	Yes	2,600	Southwest
MSFF - 4	7,200	No	2,575	Southwest
MSFF - 5	2,180	No	2,475	West
MSFF - 6	23,000	Yes	2,575	Northeast
MSFF - 7	37,150	Yes	2,600	East
MSFF - 8	29,310	No	2,475	East
MSFF - 9	7,910	No	2,525	West
MSFF - 10	7,240	Yes	2,600	Northwest
<b>Total Area (s.f.)</b>	<b>125,370</b>	<b>Average Elevation (ft - ASL)</b>	<b>2,568</b>	



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10 Factor Prism Plot - MSFF-3

Tree Number	Species	Height (feet)	Diameter at Breast Height (DBH) (inches)	Approximate Age (years)
1	Red Spruce	20	6.5	40
2	Balsam Fir	6	2.1	Dead
3	Balsam Fir	10	2.2	25
4	Balsam Fir	18	2.4	25
5	Red Spruce	25	8.0	40
6	Balsam Fir	10	2.5	25
7	Balsam Fir	16	2.2	25
8	Red Spruce	40	9.2	45
9	Balsam Fir	8	1.2	25
10	Balsam Fir	25	3.1	30
11	Red Spruce	30	9.1	60
12	Red Spruce	30	6.5	40
13	Red Spruce	30	5.5	35
14	Balsam Fir	5	1.0	Dead
15	Red Spruce	40	7.1	40

Summary	Count	Average		
		Height (feet)	DBH (inches)	Approximate Age (years)
Red Spruce	7	31	7.4	43
Balsam Fir	8	12	2.1	26
<b>MSFF (Combined)</b>	<b>15</b>	<b>21</b>	<b>4.6</b>	<b>35</b>



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10 Factor Prism Plot - MSFF-6

Tree Number	Species	Height (feet)	Diameter at Breast Height (DBH) (inches)	Approximate Age (years)
1	Balsam Fir	20	2.6	33
2	Red Spruce	22	2.7	24
3	Red Spruce	6	4.5	Dead
4	Balsam Fir	40	9.0	50
5	Red Spruce	20	5.0	22
6	Balsam Fir	40	8.2	35
7	Balsam Fir	22	5.0	22
8	Balsam Fir	20	4.2	25
9	Balsam Fir	20	4.2	25
10	Balsam Fir	25	4.6	25
11	Balsam Fir	20	8.1	45
12	Red Spruce	22	4.1	25
13	Balsam Fir	15	6.2	25
14	Balsam Fir	20	4.2	30
15	Balsam Fir	10	9.0	Dead
16	Red Spruce	20	3.9	25
17	Balsam Fir	15	4.0	25
18	Balsam Fir	10	7.5	Dead
19	Balsam Fir	40	11.0	70

Summary	Count	Average		
		Height (feet)	DBH (inches)	Approximate Age (years)
Red Spruce	5	18	4.0	24
Balsam Fir	14	23	6.3	34
<b>MSFF (Combined)</b>	<b>19</b>	<b>21</b>	<b>5.7</b>	<b>32</b>



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10 Factor Prism Plot - MSFF-7

Tree Number	Species	Height (feet)	Diameter at Breast Height (DBH) (inches)	Approximate Age (years)
1	Balsam Fir	20	3.2	35
2	Balsam Fir	25	3.9	40
3	Balsam Fir	25	5.0	40
4	Balsam Fir	35	10.0	50
5	Balsam Fir	25	5.1	35
6	Balsam Fir	15	4.2	Dead
7	Balsam Fir	40	6.9	55
8	Balsam Fir	25	7.1	35
9	Balsam Fir	25	4.0	30
10	Balsam Fir	25	4.6	30
11	Red Spruce	50	12.3	80
12	Balsam Fir	25	5.7	60
13	Balsam Fir	10	3.0	Dead
14	Balsam Fir	8	3.2	Dead
15	Balsam Fir	20	4.1	40
16	Balsam Fir	18	4.5	35
17	Red Spruce	35	10.5	60
18	Balsam Fir	12	1.0	20
19	Red Spruce	30	4.5	55
20	Balsam Fir	18	2.0	Dead
21	Balsam Fir	45	10.8	45
22	Balsam Fir	15	4.3	30
23	Balsam Fir	12	1.0	Dead
24	Balsam Fir	20	3.0	30
25	Balsam Fir	20	3.8	30
26	Balsam Fir	35	6.6	35
27	Balsam Fir	26	2.3	30

Summary	Count	Average		
		Height (feet)	DBH (inches)	Approximate Age (years)
Red Spruce	3	38	9.1	65
Balsam Fir	24	23	4.6	37
<b>MSFF (Combined)</b>	<b>27</b>	<b>24</b>	<b>5.1</b>	<b>41</b>



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10 Factor Prism Plot - MSFF-10

Tree Number	Species	Height (feet)	Diameter at Breast Height (DBH) (inches)	Approximate Age (years)
1	Red Spruce	30	5.2	31
2	Balsam Fir	25	8.0	39
3	Balsam Fir	29	4.4	29
4	Balsam Fir	43	7.2	43
5	Balsam Fir	35	6.8	40
6	Red Spruce	35	7.1	36
7	Balsam Fir	26	3.1	29
8	Balsam Fir	18	2.2	25
9	Balsam Fir	40	5.4	35
10	Red Spruce	46	8.5	45
11	Balsam Fir	28	2.8	30
12	Balsam Fir	39	6.5	35

Summary	Count	Average		
		Height (feet)	DBH (inches)	Approximate Age (years)
Red Spruce	3	37	6.9	37
Balsam Fir	9	31	5.2	34
<b>MSFF (Combined)</b>	<b>12</b>	<b>33</b>	<b>5.6</b>	<b>35</b>