



Plot A641



Plot B510



Plot C308



Plot D305

Close-up and overview photos of PEM1 Vegetation Community during June 2010



Plot C341



Plot D530



Plot E380

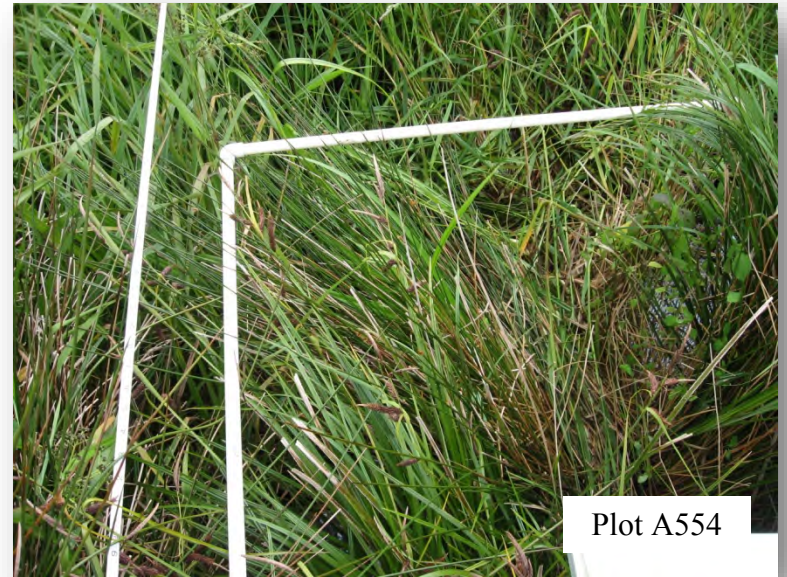


East end Transect B

Close-up and overview photos of PEM1 vegetation community during June 2016



Plot D87



Plot A554

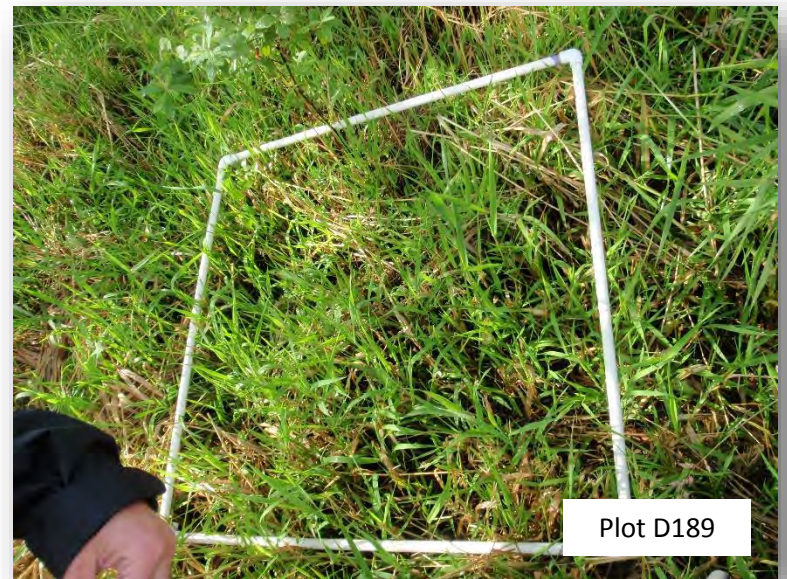


Plot C51



Plot H69

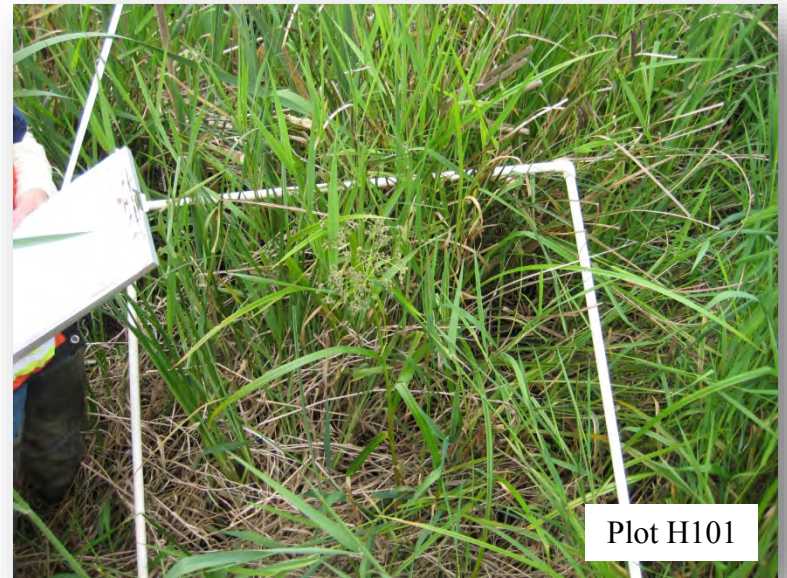
Close-up and overview photos of PEM2 Vegetation Community during June 2010



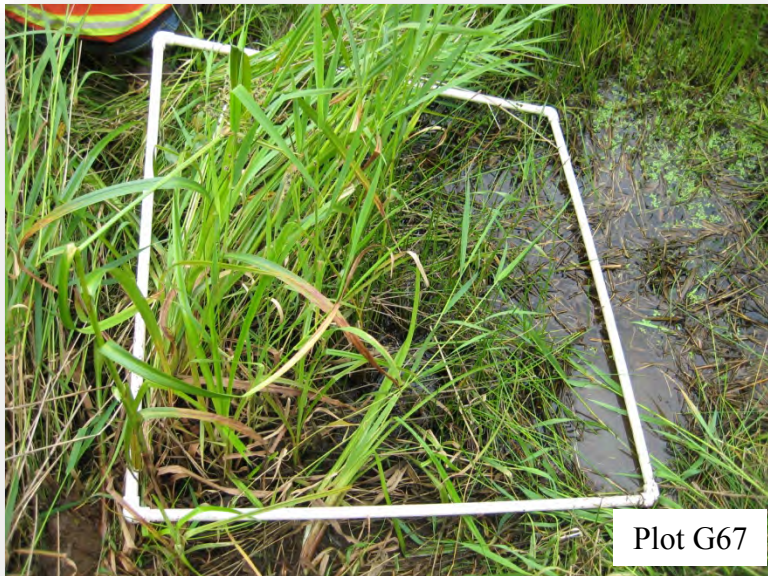
Close-up and overview photos of PEM2 vegetation community during June 2016



Plot H89



Plot H101



Plot G67



Plot

Close-up and overview photos of PEM3 Vegetation Community during June 2010



Plot B43



Plot C63

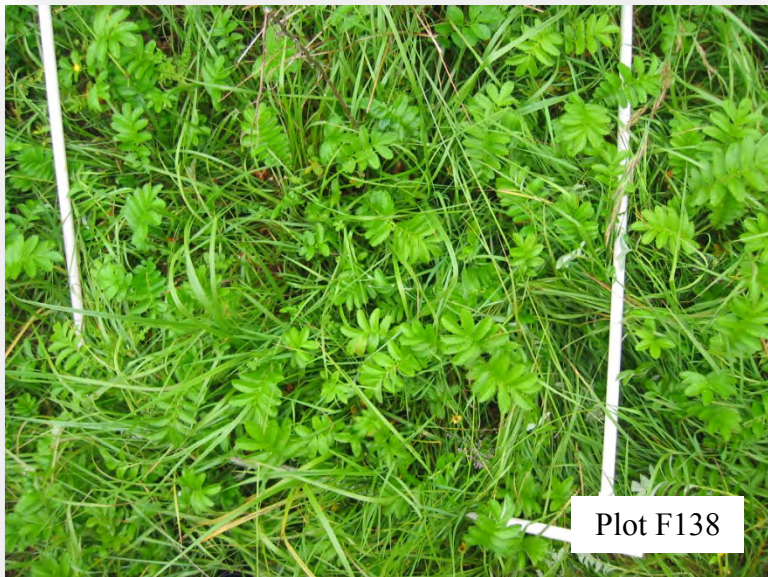


Plot H216



Plot H136

Close-up and overview photos of PEM3 vegetation community during June 2016



Close-up and overview photos of PEM4 Vegetation Community During June 2010



Close-up and overview photos of PSS Vegetation Community during June 2010





West End Transect A



Plot C568



Plot D364



Plot I150

Close-up and overview photos of PSS vegetation community during June 2016



Plot D625



Plot F64



Plot B644

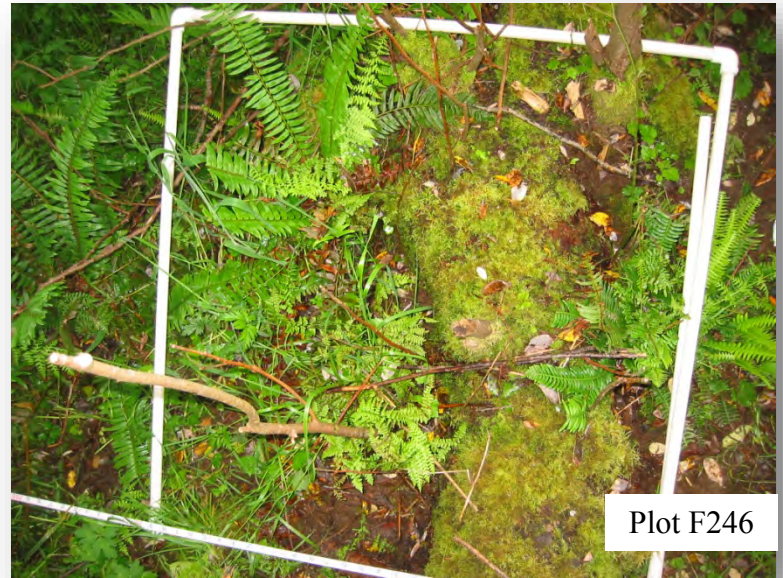


Plot D567

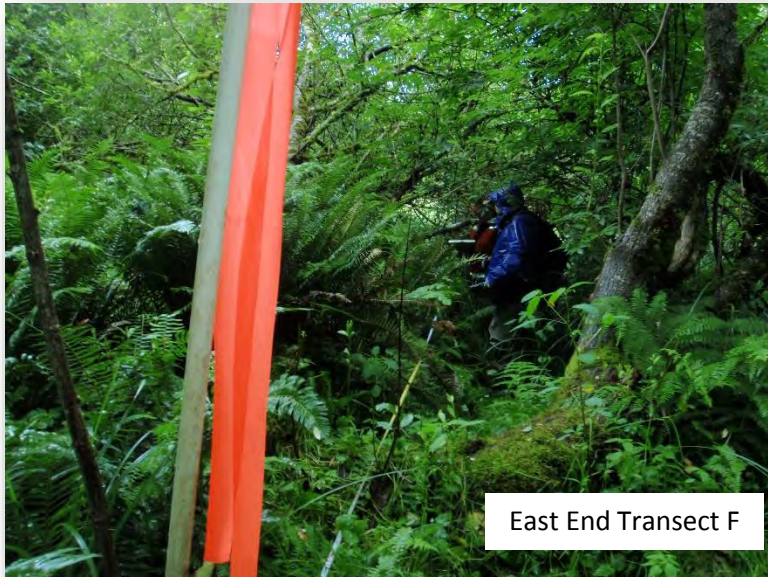
Close-up and overview photos of Riparian 1 Vegetation Community during June 2010



Close-up and overview photos of Riparian 1 vegetation community during June 2016



Close-up and overview photos of Riparian 2 Vegetation Community during June 2010



East End Transect F



Plot F281



Plot I378

Close-up and overview photos of Riparian 2 vegetation community during June 2016

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**Appendix L**

Plant species known to occur at Miami Wetlands

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<u>Four</u> <u>Letter Code</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Wetland</u> <u>Indicator Status</u>
ACCI	<i>Acer circinatum</i>	Vine maple	FAC
ACMA	<i>Acer macrophyllum</i>	Bigleaf maple	FACU
AGCA	<i>Agrostis capillaris</i>	Colonial bentgrass	FAC
ALRU	<i>Alnus rubra</i>	Red alder	FAC
ALPR	<i>Aloperurus pratensis</i>	Meadow foxtail	FACW
ANOD	<i>Anthoxanthum odoratum</i>	Sweet vernal grass	FACU
AREG	<i>Argentina egedii</i>	Pacific silverweed	OBL
ATFI	<i>Athyrium filix-femina</i>	Lady fern	FAC
BLSP	<i>Blechnum spicant</i>	Deer fern	FAC
CAsp	<i>Callitriche</i> sp.	Water-starwort	OBL
CADEW	<i>Carex deweyana</i>	Dewey's sedge	FACU
CAOB	<i>Carex obnupta</i>	Slough sedge	OBL
CAST	<i>Carex stipata</i>	Saw-beak sedge	OBL
CIAR	<i>Cirsium arvense</i>	Canada thistle	FACU
CLSI	<i>Claytonia sibirica</i>	Siberian spring beauty	FAC
COAR	<i>Convulvulus arvensis</i>	Field bindweed	UPL
COFO	<i>Digitalis purpurea</i>	Common foxglove	FACU
COSE1	<i>Convulvulus sepium</i>	Hedge bindweed	UPL
COSE2	<i>Cornus sericea</i>	Red osier dogwood	FACW
CRDO	<i>Craetaegus douglasii</i>	Douglas hawthorn	FAC
DAGL	<i>Dactylis glomerata</i>	Orchardgrass	FACU
DECE	<i>Deschampsia cespitosa</i>	Tufted hairgrass	FACW
ELAC	<i>Eleocharis acicularis</i>	Needle spikerush	OBL
ELOB	<i>Eleocharis obtusa</i>	Blunt spikerush	OBL
ELOV	<i>Eleocharis ovata</i>	Ovoid spikerush	OBL
ELPA	<i>Eleocharis palustris</i>	Common spikerush	OBL
EPCI	<i>Epilobium ciliatum (watsonii)</i>	Watson willowherb	FACW
EQAR	<i>Equisetum arvense</i>	Common horsetail	FAC
FEAR	<i>Festuca arundinacea</i>	Tall fescue	FAC
FRPU	<i>Frangula purshiana</i>	Cascara	FAC
GAsp	<i>Gallium</i> sp.	Bedstraw	
GEMA	<i>Geum macrophyllum</i>	Oregon avens	FACW
GLBO	<i>Glyceria borealis</i>	Northern mannagrass	OBL
HEHE	<i>Hedera helix</i>	English ivy	
HELA	<i>Heracleum lanatum</i>	Cow parsnip	FAC
HOBR	<i>Hordeum brachyantherum</i>	Meadow barley	FACW
HOLA	<i>Holcus lanatus</i>	Velvetgrass	FAC
IMCA	<i>Impatiens capensis</i>	Spotted touch-me-not	FACW
IMNO	<i>Impatiens noli-tangere</i>	Yellow touch me not	FACW
IRPS	<i>Iris pseudoacorus</i>	Yellow flag iris	OBL
JUAC	<i>Juncus acuminatus</i>	Tapertip rush	OBL
JUAR	<i>Juncus arcticus</i>	Arctic rush	FACW
JUBA	<i>Juncus balticus</i>	Baltic rush	FACW
JUBO	<i>Juncus bolanderi</i>	Bolander's rush	OBL

<u>Four</u> <u>Letter Code</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Wetland</u> <u>Indicator Status</u>
JUEF	<i>Juncus effuses</i>	Soft rush	FACW
JUEN	<i>Juncus ensifolius</i>	Swordleaf rush	FACW
JUPA	<i>Juncus patens</i>	Grooved rush	FACW
LOIN	<i>Lonicera involucrata</i>	Black twinberry	FAC
LOCO	<i>Lotus corniculatus</i>	Birdsfoot trefoil	FAC
LOUL	<i>Lotus uliginosus</i>	Large birdsfoot trefoil	FAC
LYAM	<i>Lysichiton americanum</i>	Skunk-cabbage	OBL
MAFU	<i>Malus fusca</i>	Crabapple	FACW
OXOR	<i>Oxalis oregano</i>	Redwood sorrel	FACU
PHAR	<i>Phalaris arundinacea</i>	Reed canary grass	FACW
PHCA	<i>Physocarpus capitatus</i>	Pacific ninebark	FACW
PISI	<i>Picea sitchensis</i>	Sitka spruce	FAC
PLMA	<i>Plantago major</i>	Common plantain	FACU
POPA	<i>Poa palustris</i>	Fowl bluegrass	FAC
POPR	<i>Poa pratensis</i>	Kentucky bluegrass	FAC
POTR	<i>Poa trivialis</i>	Rough bluegrass	FACW
POCU	<i>Polygonum cuspidatum</i>	Japanese knotweed	FACU
POMU	<i>Polystichum munitum</i>	Western sword fern	FACU
POTR	<i>Populus trichocarpa [balsamifera]</i>	Black cottonwood	FAC
PSME	<i>Pseudotsuga menziesii</i>	Douglas fir	FACU
PTAQ	<i>Pteridium aquilinum</i>	Bracken fern	FACU
RAOC	<i>Ranunculus occidentalis</i>	Common buttercup	FAC
RARE	<i>Ranunculus repens</i>	Creeping buttercup	FACW
RISA	<i>Ribes sanguineum</i>	Red-flowering currant	FACU
RUAR	<i>Rubus armenicus</i>	Armenian blackberry	FACU
RULA	<i>Rubus laciniatus</i>	Cut-leaf blackberry	FACU
RUPA	<i>Rubus parviflorus</i>	Thimbleberry	FAC
RUSP	<i>Rubus spectabilis</i>	Salmonberry	FAC
RUUR	<i>Rubus ursinus</i>	Trailing blackberry	FAC
RUAC	<i>Rumex acetosella</i>	Sheep sorrel	FACU
RUCR	<i>Rumex crispus</i>	Curly dock	FAC
RUOB	<i>Rumex obtusifolius</i>	Broadleaved dock	FAC
SAHO	<i>Salix hookeriana</i>	Hooker's willow	FACW
SALU	<i>Salix lucida ssp lasiandra</i>	Pacific willow	FACW
SAPI	<i>Salix piperi</i>	Scouler willow	FACW
SASI	<i>Salix sitchensis</i>	Sitka willow	FACW
SARA	<i>Sambucus racemosa</i>	Red elderberry	FACU
SCMI	<i>Scirpus microcarpus</i>	Small-fruited bulrush	OBL
SPDO	<i>Spirea douglasii</i>	Douglas spirea	FACW
SPEM	<i>Sparganium emersum</i>	Narrowleaf burreed	OBL
STCO	<i>Stachys chamissonis var. cooleyae</i>	Coast hedge nettle	FACW
TOME	<i>Tolmeia menziesii</i>	Piggy-back plant	FAC
TYLA	<i>Typha latifolia</i>	Cattail	OBL



<u>Four</u> <u>Letter Code</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Wetland</u> <u>Indicator Status</u>
URDI	<i>Urtica dioica</i>	Stinging nettle	FAC
VAAM	<i>Vallisneria americana</i>	Tapegrass	OBL
VIAM	<i>Vicia americana</i>	American vetch	FAC
VIGI	<i>Vicia gigantea</i>	Giant vetch	FAC

OBL	Obligate Wetland	Almost always occurs (estimated probability 99%) under natural conditions in wetlands.
FACW	Facultative Wetland	Usually occurs in wetlands (estimated probability 67%-99%), but occasionally found in non-wetlands.
FAC	Facultative	Equally likely to occur in wetlands or non-wetlands (estimated probability 34%-66%).
FACU	Facultative Upland	Usually occurs in non-wetlands (estimated probability 67%-99%), but occasionally found on wetlands (estimated probability 1%-33%).

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**Appendix M**

Vertebrate species observed at Miami Wetlands (excluding fishes)

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**Latin Name**

**Common Name**

**REPTILES and AMPHIBIANS**

<i>Ambystoma gracile</i>	Northwestern salamander
<i>Taricha granulose</i>	Rough-skinned newt
<i>Hyla regilla</i>	Pacific treefrog
<i>Rana aurora</i> ssp. <i>aurora</i>	Northern red-legged frog
<i>Thamnophis ordinoides</i>	Northwestern garter snake
<i>Thamnophis sirtalis</i> ssp. <i>concinus</i>	Red-spotted garter snake
<i>Elgaria coerulea</i>	Northern alligator lizard

**BIRDS**

<i>Phalacrocorax auritus</i>	Double-crested cormorant
<i>Ardea herodias</i>	Great blue heron
<i>Cathartes aura</i>	Turkey vulture
<i>Buteo jamaicensis</i>	Red-tailed hawk
<i>Haliaeetus leucocephalus</i>	Bald eagle
<i>Pandion haliaetus</i>	Osprey
<i>Porzana carolina</i>	Sora
<i>Rallus limicola</i>	Virginia rail
<i>Charadrius vociferous</i>	Killdeer
<i>Actitis macularia</i>	Spotted sandpiper
<i>Tyto alba</i>	Barn owl
<i>Bubo virginiana</i>	Great horned owl
<i>Ceryle alcyon</i>	Belted kingfisher
<i>Colaptes auratus</i>	Northern flicker
<i>Contopus sordidulus</i>	Western wood-pewee
<i>Empidonax difficilis</i>	Pacific-slope flycatcher
<i>Empidonax traillii</i>	Willow flycatcher
<i>Vireo gilvus</i>	Warbling vireo
<i>Corvus brachyrhynchos</i>	American crow
<i>Corvus corax</i>	Common raven
<i>Aphelocoma californica</i>	Western scrub-jay
<i>Tachycineta thalassina</i>	Violet-green swallow
<i>Poecile atricapillus</i>	Black-capped chickadee
<i>Cistothorus palustris</i>	Marsh wren
<i>Regulus calendula</i>	Ruby-crowned kinglet
<i>Catharus ustulatus</i>	Swainson's thrush
<i>Turdus migratorius</i>	American robin
<i>Bombcilla cedorum</i>	Cedar waxwing
<i>Vermivora celata</i>	Orange-crowned warbler
<i>Dendroica coronate</i>	Yellow-rumped warbler
<i>Dendroica petechia</i>	Yellow warbler
<i>Geothlypis trichas</i>	Common yellowthroat
<i>Pipilo maculates</i>	Spotted towhee
<i>Melospiza melodia</i>	Song sparrow
<i>Zonotrichia leucophrys</i>	White-crowned sparrow

**Latin Name**

**Common Name**

**BIRDS**

*Zonotrichia atricapilla*  
*Junco hyemalis*  
*Pheucticus melanocephalus*  
*Agelaius phoeniceus*

Golden-crowned sparrow  
Dark-eyed junco  
Black-headed grosbeak  
Red-winged blackbird

**MAMMALS**

*Canis latrans*  
*Odocoileus hemionus* ssp. *columbianus*  
*Ursa americanus*  
*Procyon lotor*  
*Thomomys mazama*  
*Castor canadensis*  
*Microtus townsendii*  
*Ondatra zibethicus*  
*Myocastor coypus*  
*Lontra Canadensis*

Coyote  
Columbian black-tailed deer  
American black bear  
Northern raccoon  
Western pocket gopher  
American beaver  
Townsend's vole  
Muskrat  
Nutria  
North American river otter