

## Appendix B

Below is the plant community found at each sample site within the Central Basin. All plant nomenclature is in accordance with: USDA, NRCS. 2015. The PLANTS Database, National Plant Data Team, Greensboro, NC 27401-4901 USA (<http://plants.usda.gov>). Abundance is based on a tally of plant species encountered along defined transects as described in Section 3.1 *Site Analysis Procedure*. Plants identified as invasive plant species in “*The Evaluation of Non-Native Plant Species for Invasiveness in Massachusetts*”, Massachusetts Invasive Plant Advisory Group, February 28, 2005 (<http://www.mass.gov/eea/docs/dfg/nhesp/land-protection-and-management/invasive-plant-list.pdf>) are highlighted in yellow and presented in italic font.

### Lower Otter 1

genus	species	abundance	genus	species	abundance
Acer	rubrum	78	Maianthemum	canadense	50
Alnus	incana	3	Onoclea	sensibilis	8
Amelanchier		1	Osmunda	cinnamomea	9
Anemone	quinquefolia	5	Osmunda	claytoniana	1
Betula	populifolia	3	Osmunda	regalis	1
Calamagrostis	canadensis	6	Pinus	strobus	22
Carex		1	Pteridium	aquilinum	2
Carex	intumescens	1	Quercus	rubra	1
Carex	folliculata	1	Rubus	hispidus	27
Cornus	canadensis	5	Spiraea	alba	12
Cornus	amomum	2	Thalictrum	pubescens	1
Corylus	americana	36	Trientalis	borealis	5
<i>Frangula</i>	<i>alnus</i>	10	Uvularia	sessilifolia	1
Glyceria	canadensis	2	Vaccinium	angustifolium	3
Ilex	verticillata	4	Vaccinium	corymbosum	8
Kalmia	angustifolia	9	Viburnum	lentago	5
Lyonia	ligustrina	8	Viburnum	dentatum	1
Lysimachia	terrestris	1			

### Lower Otter 2

genus	species	abundance	genus	species	abundance
Acer	rubrum	51	Maianthemum	canadense	1
Alnus	incana	37	Onoclea	sensibilis	90
Aralia	nudicaulis	1	Osmunda	cinnamomea	2
Arisaema	triphillum	1	Pinus	strobus	16

Boehmeria	cylindrica	3	Prunus	serotina	9
Brachyelytrum	erectum	4	Quercus	rubra	6
Calamagrostis	canadensis	1	Rubus	hispidus	1
Carex		1	Sambucus	canadensis	3
Carex	scoparia	1	Solidago	gigantea	1
Cicuta	maculata	1	Solidago	uliginosa	1
Eupatorium	maculatum	1	Solidago	rugosa	1
<b>Frangula</b>	<b>alnus</b>	2	Spiraea	alba	11
Galium	aparine	6	Symphyotrichum	puniceum	1
Glyceria	striata	1	Thalictrum	pubescens	10
Ilex	verticillata	1	Ulmus	americana	6
Lyonia	ligustrina	4	Viburnum	dentatum	4
Lysimachia	terrestris	1	Viola	cucullata	1

### Lower Otter 3

genus	species	abundance	genus	species	abundance
Acer	rubrum	89	Onoclea	sensibilis	8
Acer	pensylvanicum	1	Solidago	gigantea	6
Impatiens	capensis	48	Solidago	rugosa	4
Carex		4	Osmunda	cinnamomea	2
Carex	scoparia	5	Calamagrostis	canadensis	9
Carex	crinita	14	Galium	aparine	1
Scutellaria	lateriflora	4	<b>Rosa</b>	<b>multiflora</b>	1
Glyceria	canadensis	1	Viburnum	dentatum	1
Glyceria	striata	15	Betula	alleghaniensis	1
Hydrocotyle	americana	8	Trientalis	borealis	1
Polygonum	sagittatum	1	Fagus	grandifolia	1
Thalictrum	pubescens	6	Solanum	dulcamara	1
Ilex	verticillata	30	<b>Phalaris</b>	<b>arundinacea</b>	1
Rubus	pubescens	26	Clematis	virginiana	1
Rubus	hispidus	2	Maianthemum	canadense	1
Rubus	idaeus	1	Boehmeria	cylindrica	1
Dryopteris	carthusiana	6	Ulmus	americana	1
Symphyotrichum	puniceum	2	Acorus	calamus	1
Symphyotrichum	lanceolatum	1	Toxicodendron	radicans	1
Poa	palustris	16	Chelone	glabra	1

Lower Otter 4

<b>genus</b>	<b>species</b>	<b>abundance</b>	<b>genus</b>	<b>species</b>	<b>abundance</b>
Acer	rubrum	69	Carex		1
Vaccinium	corymbosum	7	Carex	intumescens	1
Betula	alleghaniensis	16	Carex	lurida	1
Maianthemum	canadense	6	Kalmia	latifolia	1
Cinna	arundinacea	8	Quercus	rubra	1
Ilex	verticillata	34	Dryopteris	carthusiana	1
Osmunda	cinnamomea	27	Lycopus	uniflorus	1
Thelypteris	palustris	5	Pinus	strobus	1
Toxicodendron	radicans	9	Viola		1
Viburnum	dentatum	2	Arisaema	triphyllum	1
Rubus	hispidus	7	Parthenocissus	quinquefolia	1

Lower Otter 5

<b>genus</b>	<b>species</b>	<b>abundance</b>	<b>genus</b>	<b>species</b>	<b>abundance</b>
Acer	rubrum	64	Osmunda	cinnamomea	15
Acer	saccharum	1	Carex		5
Onoclea	sensibilis	64	Ilex	verticillata	13
Arisaema	triphyllum	4	Calamagrostis	canadensis	3
Toxicodendron	radicans	16	Vaccinium	corymbosum	1
Rubus	hispidus	13	Spiraea	alba	4
Rubus	pubescens	5	Thelypteris	palustris	1
Alnus	incana	17	Prunus	serotina	6
Thalictrum	pubescens	12	Quercus	rubra	5
Fraxinus	pennsylvanica	13	Polygonum	sagittatum	1
Myosotis	scorpioides	2	Polygonum	arifolium	1
Pinus	strobus	12	Sambucus	canadensis	1
Impatiens	capensis	12	Boehmeria	cylindrica	1
Glyceria	striata	11	<b>Rosa</b>	<b>multiflora</b>	1
Hamamelis	virginiana	3	Veratrum	viride	1
Scutellaria	lateriflora	1	Viburnum	lantanooides	1
Symphyotrichum	puniceum	4	Amphicarpaea	bracteata	1
Solidago	rugosa	3			

Upper Otter 1

genus	species	abundance	genus	species	abundance
Acer	rubrum	96	Aralia	nudicaulis	5
Kalmia	latifolia	8	Pinus	strobus	21
Osmunda	cinnamomea	8	Mitchella	repens	6
Vaccinium	corymbosum	34	Uvularia	sessilifolia	5
Rubus	hispidus	14	Lycopodium	obscurum	6
Coptis	trifolia	31	Hamamelis	virginiana	6
Carex		1	Betula	allegghaniensis	3
Carex	folliculata	9	Trientalis	borealis	19
Gaultheria	procumbens	5	Fagus	grandifolia	3
Maianthemum	canadense	18	Tsuga	canadensis	1
Quercus	rubra	6	Medeola	virginiana	1
Ilex	verticillata	14	<i>Frangula</i>	<i>alnus</i>	1

Upper Otter 2

genus	species	abundance	genus	species	abundance
Acer	rubrum	85	Picea	mariana	4
Thelypteris	palustris	5	Betula	allegghaniensis	44
Taxus	canadensis	24	<i>Frangula</i>	<i>alnus</i>	3
Carex		1	Lindera	benzoin	8
Carex	crinita	1	Impatiens	capensis	8
Abies	balsamea	8	Maianthemum	canadense	3
Aralia	nudicaulis	7	Glyceria	striata	7
Dryopteris	carthusiana	8	Spiraea	alba	3
Dryopteris	cristata	1	Lysimachia	terrestris	1
Rubus	flagellaris	3	Solidago	uliginosa	1
Rubus	pubescens	2	Quercus	rubra	1
Rubus	hispidus	14	Eupatorium	maculatum	1
Toxicodendron	radicans	11	Arisaema	triphyllum	1
Lyonia	ligustrina	4	Scutellaria	lateriflora	1
Ilex	verticillata	16	Pinus	strobus	1
Calamagrostis	canadensis	9	Osmunda	cinnamomea	1

Upper Otter 3

genus	species	abundance	genus	species	abundance
Acer	rubrum	72	Tsuga	canadensis	3
Prunus	serotina	17	Clematis	virginiana	3
Thelypteris	noveboracensis	12	<b>Celastrus</b>	<b>orbiculatus</b>	2
Onoclea	sensibilis	29	Corylus	americana	4
Thalictrum	pubescens	14	Brachyelytrum	erectum	15
Apios	americana	2	Parthenocissus	quinquefolia	5
Carex		1	Amelanchier	canadensis	3
Carex	folliculata	9	Cornus	amomum	1
Carex	intumescens	4	Cinna	arundinacea	1
Carex	crinita	7	Symphotrichum	puniceum	1
				novae-	
Rubus	hispidus	19	Symphotrichum	angliae	1
Rubus	idaeus	1	Pteridium	aquilinum	1
<b>Frangula</b>	<b>alnus</b>	24	Alnus	serrulata	1
Solidago	rugosa	11	Pinus	strobus	1
Calamagrostis	canadensis	23	Uvularia	sessilifolia	1
Lyonia	ligustrina	4	<b>Lythrum</b>	<b>salicaria</b>	1
Spiraea	alba	13	Athyrium	filix-femina	1
Spiraea	tomentosa	2	Dryopteris	carthusiana	1
Lysimachia	terrestris	3	Glyceria	canadensis	1
Viburnum	dentatum	2	Quercus	rubra	1
Ilex	verticillata	2	Vaccinium	corymbosum	1
Myrica	gale	2	Rosa	palustris	1
Osmunda	cinnamomea	3			

Upper Otter 4

genus	species	abundance	genus	species	abundance
Acer	rubrum	60	Clethra	alnifolia	11
Carex	stricta	12	Rubus	hispidus	1
Osmunda	cinnamomea	31	Glyceria	striata	1
<b>Frangula</b>	<b>alnus</b>	69	Impatiens	capensis	1
Ilex	verticillata	10	Pinus	strobus	1
Lyonia	ligustrina	3	Convolvulus	arvensis	1
Vaccinium	corymbosum	10	Spiraea	tomentosa	1
Calamagrostis	canadensis	4	Spiraea	alba	1
Thelypteris	palustris	4	Dryopteris	carthusiana	1
Lemna		5			

## Upper Otter 5

genus	species	abundance	genus	species	abundance
acer	rubrum	58	Thelypteris	noveboracensis	12
betula	alleghaniensis	48	Alnus	incana	26
<b>frangula</b>	<b>alnus</b>	5	Clematis	virginiana	4
rubus	hispidus	10	Solidago	rugosa	3
rubus	pubescens	1	Solidago	gigantea	5
pinus	strobus	21	Fraxinus	pennsylvanica	14
osmunda	cinnamomea	17	Impatiens	capensis	12
ilex	verticillata	22	Arisaema	triphillum	3
<b>Celastrus</b>	<b>orbiculatus</b>	2	Quercus	rubra	5
Onoclea	sensibilis	29	Symphytotrichum	puniceum	2
Dryopteris	carthusiana	20	Glyceria	striata	2
Viburnum	dentatum	1	Sambucus	canadensis	1
Carex		7	<b>Berberis</b>	<b>thunbergii</b>	1
Carex	intumescens	1	Trientalis	borealis	1
Vaccinium	corymbosum	2	Hamamelis	virginiana	1
Scutellaria	lateriflora	4	Tsuga	canadensis	1
Toxicodendron	radicans	1	Polygonum	sagittatum	1
<b>Rosa</b>	<b>multiflora</b>	3			

## Blackstone 1

genus	species	abundance	genus	species	abundance
Acer	rubrum	66	Dryopteris	cristata	8
Symplocarpus	foetidus	62	Ilex	verticillata	5
Osmunda	cinnamomea	11	Quercus	alba	5
Arisaema	triphillum	6	Toxicodendron	vernix	1
Carex		5	Toxicodendron	radicans	1
Carex	folliculata	4	Lysimachia	ciliata	1
Viola	cucullata	16	<b>Lysimachia</b>	<b>nummularia</b>	1
Impatiens	capensis	32	Maianthemum	canadense	1
<b>Berberis</b>	<b>thunbergii</b>	5	Hydrocotyle	americana	1
Pilea	pumila	6	Lindera	benzoin	1
Pinus	strobus	11	Lyonia	ligustrina	1
Betula	alleghaniensis	22	Scutellaria	lateriflora	1
Fraxinus	pennsylvanica	14	Boehmeria	cylindrica	1
Ulmus	americana	3	Mimulus	ringens	1
Carpinus	caroliniana	4	Myosotis	scorpioides	1
Cinna	arundinacea	2	Viburnum	dentatum	1
Hamamelis	virginiana	10			

Blackstone 2

genus	species	abundance	genus	species	abundance
Acer	rubrum	89	Ulmus	americana	7
Dennstaedtia	punctilobula	55	Prunus	serotina	13
Vaccinium	corymbosum	27	rubus	hispidus	8
Betula	populifolia	22	Onoclea	sensibilis	1
<b>Frangula</b>	<b>alnus</b>	9	Toxicodendron	radicans	1
Pinus	strobus	14	Agrostis		1
Quercus	rubra	1	Cinna	arundinacea	1
Solidago	gigantea	2	Smilax	rotundifolia	1
Solidago	rugosa	4			

Blackstone 3

genus	species	abundance	genus	species	abundance
Acer	rubrum	56	Solidago	gigantea	7
Cinna	arundinacea	24	Thalictrum	pubescens	1
Pinus	strobus	15	Spiraea	alba	11
Ilex	verticillata	1	Rubus	alleggheniensis	3
<b>Alliaria</b>	<b>petiolata</b>	24	Euthamia	graminifolia	2
Lindera	benzoin	22	Ambrosia	artemisiifolia	1
Toxicodendron	radicans	51	<b>Lythrum</b>	<b>salicaria</b>	1
Onoclea	sensibilis	6	Smilax	rotundifolia	1
Betula	populifolia	39	Quercus	rubra	1
Carex		6	Quercus	bicolor	1
Carex	scoparia	1	Bidens	frondosa	1
Impatiens	capensis	2	Prunus	serotina	1
Boehmeria	cylindrica	5	<b>Rosa</b>	<b>multiflora</b>	1
Circaea	lutetiana	4	Oxalis		1
Populus	tremuloides	1	Urtica	dioica	1
Solidago	rugosa	20			

Blackstone 4

genus	species	abundance	genus	species	abundance
Acer	rubrum	81	Lyonia	ligustrina	5
Vaccinium	corymbosum	14	Osmunda	cinnamomea	5
Symplocarpus	foetidus	50	Lycopodium	obscurum	3
Clethra	alnifolia	61	Huperzia	lucidula	3
Pinus	strobus	19	Oclemena	acuminata	1
Pinus	rigida	1	Hamamelis	virginiana	1

Betula	alleghaniensis	86	Mitchella	repens	1
Trientalis	borealis	5	Carex		1
Ilex	verticillata	9	Viburnum	dentatum	1
Maianthemum	canadense	4	Quercus	alba	1
Rhododendron	viscosum	1	Uvularia	sessilifolia	1
Sassafras	albidum	1	Vitis		1
Nyssa	sylvatica	1	Rubus	hispidus	1

#### Blackstone 5

genus	species	abundance	genus	species	abundance
Acer	rubrum	35	Carex	crinita	4
Osmunda	cinnamomea	32	Peltandra	virginica	15
Nyssa	sylvatica	50	Mitchella	repens	6
Pinus	strobus	27	Leersia	oryzoides	17
Maianthemum	canadense	27	Rorippa		9
Vaccinium	corymbosum	25	Polygonum	arifolium	7
Uvularia	sessilifolia	11	Ilex	verticillata	9
Toxicodendron	radicans	19	Thelypteris	noveboracensis	1
Symplocarpus	foetidus	3	Parthenocissus	quinquefolia	3
Aralia	nudicaulis	8	Impatiens	capensis	4
Lyonia	ligustrina	16	Boehmeria	cylindrica	1
Carya	glabra	6	<b>Berberis</b>	<b>thunbergii</b>	1
Quercus	alba	1	Sambucus	canadensis	1
Quercus	rubra	8	Cicuta	maculata	1
Lycopodium	obscurum	3	Rhododendron	viscosum	1
Clethra	alnifolia	3	Monotropa	uniflora	1
Iris		5	Onoclea	sensibilis	1
Carex		1	Anemone	quinquefolia	1

#### Kettle Brook 1

genus	species	abundance	genus	species	abundance
Acer	rubrum	80	<b>Rosa</b>	<b>multiflora</b>	11
Acer	saccharum	6	Aralia	nudicaulis	4
Lindera	benzoin	2	Toxicodendron	radicans	3
Lonicera	xylosteum	24	Fraxinus	pennsylvanica	12
<b>Celastrus</b>	<b>orbiculatus</b>	39	Ulmus	americana	2
Thalictrum	pubescens	10	Thelypteris	noveboracensis	2
Impatiens	capensis	7	Carex		1
Osmunda	cinnamomea	16	Viola		1
Dryopteris	carthusiana	31	Fagus	grandifolia	1



Onoclea	sensibilis	19	Circaea	lutetiana	1
Alnus	serrulata	8	Clematis	virginiana	1
Prunus	serotina	15	<b>Berberis</b>	<b>thunbergii</b>	1
Ilex	verticillata	8	Tiarella	cordifolia	1
Rubus	pubescens	1	Vitis	labrusca	1
Rubus	hispidus	8	Cinna	arundinacea	1
Rubus	flagellaris	3	Cornus	amomum	1
Rubus	allegheniensis	1	Maianthemum	racemosum	1
Quercus	rubra	13	Pinus	strobus	1

### Kettle Brook 2

<b>genus</b>	<b>species</b>	<b>abundance</b>	<b>genus</b>	<b>species</b>	<b>abundance</b>
Acer	rubrum	68	Quercus	rubra	4
Onoclea	sensibilis	89	Symphotrichum	puniceum	6
Toxicodendron	radicans	53	Dryopteris	carthusiana	4
Fraxinus	pennsylvanica	19	Galium	aparine	1
Parthenocissus	quinquefolia	9	Sambucus	canadensis	1
Ulmus	rubra	5	Athyrium	filix-femina	1
Ulmus	americana	21	Aralia	nudicaulis	1
Impatiens	capensis	2	Solidago	rugosa	1
Carya	glabra	4	Aster	divaricatus	1
Equisetum	pratense	20	Carex		1
Rubus	pubescens	12	Uvularia	sessilifolia	1
Arisaema	triphillum	13	Epilobium	coloratum	1
Ilex	verticillata	17	<b>Celastrus</b>	<b>orbiculatus</b>	1
Cornus	amomum	7	Ribes	cynosbati	1

### Kettle Brook 3

<b>genus</b>	<b>species</b>	<b>abundance</b>	<b>genus</b>	<b>species</b>	<b>abundance</b>
Acer	rubrum	81	Betula	alleghaniensis	5
Glyceria	striata	12	Circaea	lutetiana	5
Fraxinus	pennsylvanica	23	Maianthemum	racemosum	3
Ilex	verticillata	34	Osmunda	claytoniana	3
Onoclea	sensibilis	17	Osmunda	cinnamomea	11
Rubus	pubescens	16	Osmunda	regalis	6
Rubus	hispidus	11	Crataegus		1
Toxicodendron	radicans	34	Lonicera	xylosteum	2
Thalictrum	pubescens	11	Equisetum	pratense	1
Impatiens	capensis	5	Cinna	arundinacea	1
Ribes	triste	1	Viburnum	dentatum	1

Quercus	robur	10	Geum	aleppicum	1
Quercus	rubra	2	Solanum	dulcamara	1
Solidago	rugosa	4	Aster	divaricatus	1
Dryopteris	carthusiana	8	Arisaema	triphillum	1
Carex		2	Oclemena	acuminata	1
Carex	folliculata	1	Symphotrichum	puniceum	1
Apios	americana	2	Galium	aparine	1
Aralia	nudicaulis	6			

#### Kettle Brook 4

genus	species	abundance	genus	species	abundance
Acer	rubrum	81	Rubus	hispidus	4
Osmunda	claytoniana	3	Rubus	pubescens	3
Osmunda	cinnamomea	20	Polygonum	sagittatum	2
Osmunda	regalis	1	Dulichium	arundinaceum	4
Thelypteris	noveboracensis	22	Sparganium		2
Thelypteris	palustris	10	Scirpus	cyperinus	1
Kalmia	latifolia	7	<b>Celastrus</b>	<b>orbiculatus</b>	1
Ilex	verticillata	14	Lycopus	uniflorus	6
Betula	alleghaniensis	4	Lycopus	americanus	1
Betula	papyrifera	1	Solidago	rugosa	1
Maianthemum	canadense	3	Coptis	trifolia	1
Prunus	serotina	2	Trientalis	borealis	1
Vaccinium	corymbosum	12	Pinus	strobus	1
Carex		4	Typha	latifolia	1
Carex	intumescens	11	Aralia	nudicaulis	1
Carex	lurida	18	Quercus	rubra	1
Spiraea	alba	9	Corylus	americana	1
Glyceria	striata	11	Epilobium		1
Glyceria	canadensis	3	Brachyelytrum	erectum	1
Lyonia	ligustrina	3	<b>Rosa</b>	<b>multiflora</b>	1
Onoclea	sensibilis	4	Fagus	grandifolia	1
Impatiens	capensis	7	Chelone	glabra	1
Clethra	alnifolia	1			

Kettle Brook 5

<b>genus</b>	<b>species</b>	<b>abundance</b>	<b>genus</b>	<b>species</b>	<b>abundance</b>
Fraxinus	americana	31	Aralia	nudicaulis	2
Acer	saccharum	50	Parthenocissus	quinquefolia	5
Acer	rubrum	53	Polystichum	acrostichoides	8
Fagus	grandifolia	6	Ilex	verticillata	2
Carex		2	Ostrya	virginiana	2
Carya	glabra	3	Osmunda	cinnamomea	3
Aster	divaricatus	6	Viburnum	acerifolium	1
Dryopteris	carthusiana	10	Maianthemum	canadense	1
Betula	alleghaniensis	25	Maianthemum	racemosum	1
Rubus	pubescens	3	Arisaema	triphillum	1
Brachyelytrum	erectum	2	Athyrium	filix-femina	1
Toxicodendron	radicans	6	Viola		1
Collinsonia	canadensis	2	Trientalis	borealis	1
Quercus	rubra	10	Uvularia	sessilifolia	1
Onoclea	sensibilis	16	Tiarella	cordifolia	1
Tilia	americana	10	Hydrocotyle	americana	1
Thelypteris	noveboracensis	7			