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Appendix C. Wetland Characterization Forms

Appendix C.1 North Gateway Wetland Characterization Data Forms

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/23/20	Wetland Sample Plot:	NG-7
Data Sheet Numbers:	NG-7	Size (acres):	0.23
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PSS
Wetland Polygons:	NGW-2	HGM Class(es):	S

Location -- Legal:	T17S, R3W, Section 15
Other:	Remnant scour channel impounded by historically constructed farm road adjacent to an agricultural field and the Mckenzie River
Tax Lots:	1703100002500
Hydrologic basin:	Walterville Canal-McKenzie River (170900040100)
Soil -- Mapped series:	Riverwash; Fluvents, nearly level; Newberg fine sandy loam; Newberg loam
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES / SHRUBS		VINES / HERBS	
<i>Fraxinus latifolia</i>	Oregon ash	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Populus trichocarpa</i>	Black cottonwood	<i>Cirsium sp.</i>	Thistle
<i>Rubus bifrons</i>	Himalayan blackberry		

Comments: **Locally Significant**

Adjacent upland species:
Rubus bifrons, Acer macrophyllum, Fraxinus latifolia, Populus trichocarpa, Oemleria cerasiformis, Hypericum perforatum, Geranium sp., Digitalis purpurea, Hedera helix, Marah oreganus

- COWARDIN CODES:**
- | | | | |
|------------------------------|-----------------------------|------------------------------|---------------------------|
| PFO = palustrine forested | PEM = palustrine emergent | E2SS = estuarine scrub shrub | E2EM = estuarine emergent |
| PSS = palustrine scrub-shrub | POW = palustrine open water | E2FO = estuarine forested | |
- HGM CODES:**
- | | | | |
|----------------------------|-----------------------------------|---------------------------------|-----------------------------|
| RI = River Impounding | EFB = Estuarine Fringe Embayment | EFR = Estuarine Fringe Riverine | RFT = Riverine Flow Through |
| DA = Depressional Alkaline | LFH = Lacustrine Fringe Headwater | LFV = Lacustrine Fringe Valley | DB = Depressional Bog |

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/23/20	Wetland Sample Plot:	NG-8
Data Sheet Numbers:	NG-8	Size (acres):	1.26
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PEM
Wetland Polygons:	NGW-1	HGM Class(es):	S

Location -- Legal:	T17S, R3W, Section 10
Other:	Remnant scour channel adjacent to agricultural field north of sample plot NG-7 near the McKenzie River
Tax Lots:	1703100002500
Hydrologic basin:	Walterville Canal-McKenzie River (17090004070)
Soil -- Mapped series:	Riverwash; Fluvents, nearly level; Newberg fine sandy loam; Newberg loam
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Populus balsamifera</i>	Balsam poplar	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Fraxinus latifolia</i>	Oregon ash	<i>Urtica dioica</i>	Stinging nettle
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Agrostis capillaris</i>	Colonial bentgrass
		<i>Carex sp.</i>	Sedge
		<i>Rorippa sp.</i>	Yellowcress
		<i>Holcus lanatus</i>	Common velvetgrass
		<i>Elymus glaucus</i>	Wild rye grass

Comments:	Locally Significant
Adjacent upland species: <i>Rubus bifrons, Acer macrophyllum, Fraxinus latifolia, Populus trichocarpa, Oemleria cerasiformis, Hypericum perforatum</i>	

- COWARDIN CODES:**
 PFO = palustrine forested
 PSS = palustrine scrub-shrub
 PEM = palustrine emergent
 POW = palustrine open water
 E2SS = estuarine scrub shrub
 E2FO = estuarine forested
 E2EM = estuarine emergent
- HGM CODES:**
 RI = River Impounding
 DA = Depressional Alkaline
 EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater
 EFR = Estuarine Fringe Riverine
 LFV = Lacustrine Fringe Valley
 RFT = Riverine Flow Through
 DB = Depressional Bog

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Appendix C. Wetland Characterization Forms

Appendix C.2 Willamalane Properties Wetland Characterization Data Forms

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/26/20	Wetland Sample Plot:	WP-1
Data Sheet Numbers:	WP-1	Size (acres):	1.45
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	R4SB
Wetland Polygons:	WPW-1	HGM Class(es):	RFT

Location -- Legal:	T17S, R2W, Section 27
Other:	Low bank of intermittent drainage (south fork of Cedar Creek) in Wallace M Ruff park
Tax Lots:	1702270001502
Hydrologic basin:	Walterville Canal-McKenzie River (17090004070)
Soil -- Mapped series:	Fluents, nearly level; Cloquato silt loam, Newberg fine sandy loam
Hydrologic Source:	Surface Flow

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Fraxinus latifolia</i>	Oregon ash	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Salix sp.</i>	Willow	<i>Carex obnupta</i>	Slough sedge
<i>Salix lasiandra</i>	Pacific willow	<i>Lemna sp.</i>	duckweed
<i>Cornus sericea</i>	Red-osier dogwood	<i>Athyrium felix-femina</i>	Lady fern
		<i>Rubus parviflorus</i>	Thimbleberry
		<i>Rubus ursinus</i>	Trailing blackberry

Comments: **Locally Significant**

Adjacent upland species:
Cornus sericea, Rubus bifrons, Galium aparine

COWARDIN CODES:

PFO = palustrine forested
 PSS = palustrine scrub-shrub

PEM = palustrine emergent
 POW = palustrine open water

E2SS = estuarine scrub shrub
 E2FO = estuarine forested

E2EM = estuarine emergent

HGM CODES:

RI = River Impounding
 DA = Depressional Alkaline

EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater

EFR = Estuarine Fringe Riverine
 LFV = Lacustrine Fringe Valley

RFT = Riverine Flow Through
 DB = Depressional Bog

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/25/20	Wetland Sample Plot:	WP-2
Data Sheet Numbers:	WP-2	Size (acres):	0.6
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	R2UB (creek), PSS (fringe)
Wetland Polygons:	WPW-2, WPW-3	HGM Class(es):	RFT

Location -- Legal:	T17S, R2W, Section 27
Other:	Cedar Creek in Lively Park
Tax Lots:	1702270001101
Hydrologic basin:	Walterville Canal-McKenzie River (17090004070)
Soil -- Mapped series:	Fluents, nearly level; Camas gravelly sandy loam occasionally flooded; Cloquato silt loam
Hydrologic Source:	Surface Flow

Dominant Wetland Vegetation			
TREES / SHRUBS		VINES / HERBS	
<i>Cornus sericea</i>	Red-osier dogwood	<i>Sparganium sp.</i>	Bur-reed grass
<i>Physocarpus capitatus</i>	Pacific ninebark	<i>Carex obnupta</i>	Slough sedge
		<i>Rubus ursinus</i>	Trailing blackberry

Comments: **Locally Significant**

Adjacent upland species:
Acer macrophyllum, *Symphoricarpos sp.*, *Polystichum munitum*, *Geranium sp.*, *Tolmiea menziesii*, *Dicentra sp.*, *Hedera helix*, *Corylis americana*, *Holodiscus discolor*, *Poaceae sp.*

- COWARDIN CODES:**
PFO = palustrine forested
PSS = palustrine scrub-shrub
PEM = palustrine emergent
POW = palustrine open water
E2SS = estuarine scrub shrub
E2FO = estuarine forested
E2EM = estuarine emergent
- HGM CODES:**
RI = River Impounding
DA = Depressional Alkaline
EFB = Estuarine Fringe Embayment
LFH = Lacustrine Fringe Headwater
EFR = Estuarine Fringe Riverine
LFV = Lacustrine Fringe Valley
RFT = Riverine Flow Through
DB = Depressional Bog

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/22/20	Wetland Sample Plot:	WP-4
Data Sheet Numbers:	WP-4	Size (acres):	2.94
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PEM
Wetland Polygons:	WPW-4B	HGM Class(es):	RFT

Location -- Legal:	T17S, R2W, Section 30
Other:	South end of Oxbow Natural Area near Highway 126 and N 42nd Street, just north of sample plot WP-5.
Tax Lots:	1702300000401
Hydrologic basin:	Walterville Canal-McKenzie River (1709000401)
Soil -- Mapped series:	Fluvents, nearly level; Newberg fine sand, loam
Hydrologic Source:	Surface Flow

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Salix sp.</i>	Willow	<i>Spartanium sp.</i>	Bur-reed grass
		<i>Mosotis laxa</i>	Forget-me-not
		<i>Polygonum hydropiper</i>	Marshpepper knotweed
		<i>Phalaris arundinacea</i>	Reed canary grass

Comments: **Locally Significant**

Adjacent upland species:
Linnaea borealis, Alnus rubra, Fraxinus latifolia, Acer macrophyllum, Urtica dioica, Phalaris arundinacea

- COWARDIN CODES:**
 PFO = palustrine forested
 PSS = palustrine scrub-shrub
 PEM = palustrine emergent
 POW = palustrine open water
 E2SS = estuarine scrub shrub
 E2FO = estuarine forested
 E2EM = estuarine emergent
- HGM CODES:**
 RI = River Impounding
 DA = Depressional Alkaline
 EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater
 EFR = Estuarine Fringe Riverine
 LFV = Lacustrine Fringe Valley
 RFT = Riverine Flow Through
 DB = Depressional Bog

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/23/20	Wetland Sample Plot:	WP-5
Data Sheet Numbers:	WP-5	Size (acres):	1.53
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PFOC
Wetland Polygons:	WPW-4A	HGM Class(es):	S

Location -- Legal:	T17S, R2W, Section 30
Other:	South end of Oxbow Natural Area near Highway 126 and N 42nd Street.
Tax Lots:	170230000401
Hydrologic basin:	Walterville Canal-McKenzie River (1709000401)
Soil -- Mapped series:	Fluvents, nearly level; Newberg fine sand, loam
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Populus balsamifera</i>	Balsam poplar	<i>Carex obnupta</i>	Slough sedge
<i>Fraxinus latifolia</i>	Oregon ash	<i>Rubus ursinus</i>	Trailing blackberry
<i>Cornus sericea</i>	Red osier dogwood	<i>Rubus bifrons</i>	Blackberry
<i>Salix sp.</i>	Willow	<i>Phalaris arundinacea</i>	Reed canary grass

Comments: **Locally Significant**

Adjacent upland species:
Populus trichocarpa, Alnus rubra, Acer macrophyllum, Hedera helix, Symphoricarpos sp.

- COWARDIN CODES:**
- PFO = palustrine forested
 - PSS = palustrine scrub-shrub
 - PEM = palustrine emergent
 - POW = palustrine open water
 - E2SS = estuarine scrub shrub
 - E2FO = estuarine forested
 - E2EM = estuarine emergent
- HGM CODES:**
- RI = River Impounding
 - DA = Depressional Alkaline
 - EFB = Estuarine Fringe Embayment
 - LFH = Lacustrine Fringe Headwater
 - EFR = Estuarine Fringe Riverine
 - LFV = Lacustrine Fringe Valley
 - RFT = Riverine Flow Through
 - DB = Depressional Bog

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/22/20	Wetland Sample Plot:	WP-6
Data Sheet Numbers:	WP-6	Size (acres):	8.41
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PFO
Wetland Polygons:	WPW-7A	HGM Class(es):	S

Location -- Legal:	T17S, R2W, Section 30
Other:	Middle of Oxbow Natural Area.
Tax Lots:	1702300000401
Hydrologic basin:	Walterville Canal-McKenzie River (1709000401)
Soil -- Mapped series:	Fluvents, nearly level; Newberg-Urban land complex
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Alnus rubra</i>	Red alder	<i>Urtica dioica</i>	Stinging nettle
<i>Acer macrophyllum</i>	Big leaf maple	<i>Geranium sp.</i>	Geranium
<i>Oemleria cerasiformis</i>	Osoberry	<i>Rubus bifrons</i>	Blackberry
<i>Populus balsamifera</i>	Balsam poplar	<i>Sambucus racemosa</i>	Elderberry
		<i>Ribes lacustre</i>	Gooseberry
		<i>Carex obnupta</i>	Slough sedge
		<i>Phalaris arundinacea</i>	Reed canary grass
		<i>Rubus ursinus</i>	Trailing blackberry
		<i>Hyparrhenia hirta</i>	Thatch

Comments:	Locally Significant
Adjacent upland species: <i>Populus trichocarpa, Alnus rubra, Acer macrophyllum, Hedera helix, Symphoricarpos sp.</i>	

COWARDIN CODES:

PFO = palustrine forested
PSS = palustrine scrub-shrub

PEM = palustrine emergent
POW = palustrine open water

E2SS = estuarine scrub shrub
E2FO = estuarine forested

E2EM = estuarine emergent

HGM CODES:

RI = River Impounding
DA = Depressional Alkaline

EFB = Estuarine Fringe Embayment
LFH = Lacustrine Fringe Headwater

EFR = Estuarine Fringe Riverine
LFV = Lacustrine Fringe Valley

RFT = Riverine Flow Through
DB = Depressional Bog

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/23/20	Wetland Sample Plot:	WP-7
Data Sheet Numbers:	WP-7	Size (acres):	1.48
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PFO
Wetland Polygons:	WPW-7A, WPW-7C, WPW-7D, WPW-7E, WPW-7F	HGM Class(es):	S

Location -- Legal:	T17S, R2W, Section 30
Other:	Northwest end of Oxbow Natural Area near parking area
Tax Lots:	170230000401
Hydrologic basin:	Walterville Canal-McKenzie River (1709000401)
Soil -- Mapped series:	Fluvents, nearly level; Ritner cobbly silty clay loam, 12 to 30 percent slopes; Newberg-Urban land complex
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Alnus rubra</i>	Red alder	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Salix sp.</i>	Willow	<i>Rubus ursinus</i>	Trailing blackberry
<i>Cornus sericea</i>	Red osier dogwood	<i>Hyparrhenia hirta</i>	Thatch
<i>Populus trichocarpa</i>	Black cottonwood		

Comments: **Locally Significant**

Adjacent upland species:
Acer macrophyllum, Rubus bifrons

- COWARDIN CODES:**
PFO = palustrine forested
PSS = palustrine scrub-shrub
PEM = palustrine emergent
POW = palustrine open water
E2SS = estuarine scrub shrub
E2FO = estuarine forested
E2EM = estuarine emergent
- HGM CODES:**
RI = River Impounding
DA = Depressional Alkaline
EFB = Estuarine Fringe Embayment
LFH = Lacustrine Fringe Headwater
EFR = Estuarine Fringe Riverine
LFV = Lacustrine Fringe Valley
RFT = Riverine Flow Through
DB = Depressional Bog

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	Off-Site	Wetland Sample Plot:	WP-8
Data Sheet Numbers:	WP-8	Size (acres):	2.94
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PFO
Wetland Polygons:	WPW-8	HGM Class(es):	S

Location -- Legal:	T17S, R2W, Section 30
Other:	Island near Oxbow Natural Area
Tax Lots:	1702300000401
Hydrologic basin:	Walterville Canal-McKenzie River (17090004010)
Soil -- Mapped series:	Fluvents, nearly level; Ritner cobbly silty clay loam, 12 to 30 percent slopes; Newberg-Urban land complex
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Alnus rubra</i>	Red alder	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Salix sp.</i>	Willow	<i>Rubus ursinus</i>	Trailing blackberry
<i>Cornus sericea</i>	Red osier dogwood	<i>Hyparrhenia hirta</i>	Thatch
<i>Populus trichocarpa</i>	Black cottonwood		

Comments: **Locally Significant**

Adjacent upland species:
Acer macrophyllum, Rubus bifrons

- COWARDIN CODES:**
PFO = palustrine forested
PSS = palustrine scrub-shrub
PEM = palustrine emergent
POW = palustrine open water
E2SS = estuarine scrub shrub
E2FO = estuarine forested
E2EM = estuarine emergent
- HGM CODES:**
RI = River Impounding
DA = Depressional Alkaline
EFB = Estuarine Fringe Embayment
LFH = Lacustrine Fringe Headwater
EFR = Estuarine Fringe Riverine
LFV = Lacustrine Fringe Valley
RFT = Riverine Flow Through
DB = Depressional Bog

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Appendix C. Wetland Characterization Forms

Appendix C.3 Mill Race Wetland Characterization Data Forms

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/24/20	Wetland Sample Plot:	MR-2
Data Sheet Numbers:	MR-2	Size (acres):	0.45
Investigator(s):	LF, CB, DM, PS	Cowardin Class(es):	PSS
Wetland Polygons:	MRW-2	HGM Class(es):	S

Location -- Legal:	T18S, R2W, Section 8
Other:	East side of Clearwater Park
Tax Lots:	1802080000300
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Fluvents, nearly level; Newberg fine sand, loam
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Fraxinus latifolia</i>	Oregon ash	<i>Urtica dioica</i>	Stinging nettle
<i>Cornus sericea</i>	Red osier dogwood	<i>Sagittaria arifolia</i>	Arrowhead
<i>Philadelphus lewisii</i>	Mock orange	<i>Phalaris arundinacea</i>	Reed canary grass
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Rubus ursinus</i>	Trailing blackberry
		<i>Athyrium filix-femina</i>	Lady fern
		<i>Stachys Cooleyae</i>	Cooley's hedge nettle
		<i>philadelphus lewisii</i>	mock orange

Comments: **Locally Significant**

Adjacent upland species:
Acer macrophyllum, Fraxinus latifolia, Rubus bifrons, Symphoricarpos sp., Polystichum munitum, Corylus americana

COWARDIN CODES:

PFO = palustrine forested
 PSS = palustrine scrub-shrub

PEM = palustrine emergent
 POW = palustrine open water

E2SS = estuarine scrub shrub
 E2FO = estuarine forested

E2EM = estuarine emergent

HGM CODES:

RI = River Impounding
 DA = Depressional Alkaline

EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater

EFR = Estuarine Fringe Riverine
 LFV = Lacustrine Fringe Valley

RFT = Riverine Flow Through
 DB = Depressional Bog

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/24/20	Wetland Sample Plot:	MR-3
Data Sheet Numbers:	MR-3	Size (acres):	3.65
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PFO
Wetland Polygons:	MRW-1	HGM Class(es):	S

Location -- Legal:	T18S, R2W, Section 8
Other:	Northeast corner of Clearwater Park
Tax Lots:	1802080000300
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Fluvents, nearly level; Newberg fine sand, loam
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Fraxinus latifolia</i>	Oregon ash	<i>Carex obnupta</i>	Slough sedge
<i>Oemleria cerasiformis</i>	Osoberry	<i>Carex sp.</i>	Sedge
<i>Populus balsamifera</i>	Balsam poplar	<i>Symphoricarpos sp.</i>	Snowberry
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Rubus ursinus</i>	Trailing blackberry

Comments: **Locally Significant**

Adjacent upland species:
Fraxinus latifolia, *Symphoricarpos sp.*, *Populus trichocarpa*

- COWARDIN CODES:**
PFO = palustrine forested
PSS = palustrine scrub-shrub
PEM = palustrine emergent
POW = palustrine open water
E2SS = estuarine scrub shrub
E2FO = estuarine forested
E2EM = estuarine emergent
- HGM CODES:**
RI = River Impounding
DA = Depressional Alkaline
EFB = Estuarine Fringe Embayment
LFH = Lacustrine Fringe Headwater
EFR = Estuarine Fringe Riverine
LFV = Lacustrine Fringe Valley
RFT = Riverine Flow Through
DB = Depressional Bog

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/24/20	Wetland Sample Plot:	MR-4
Data Sheet Numbers:	MR-4	Size (acres):	0.26
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PFO
Wetland Polygons:	MRW-3A, MRW-3B	HGM Class(es):	S

Location -- Legal:	T18S, R2W, Section 5
Other:	Middle of Clearwater Park
Tax Lots:	1802080000400
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Fluvents, nearly level; Newberg fine sand, loam
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Fraxinus latifolia</i>	Oregon ash	<i>Carex sp.</i>	Sedge
<i>Cornus sericea</i>	Red osier dogwood	<i>Rubus ursinus</i>	Trailing blackberry
<i>Populus balsamifera</i>	Balsam poplar	<i>Equisetum hyemale</i>	Rough horsetail
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Hedera hibernica</i>	Irish ivy

Comments: **Locally Significant**

Adjacent upland species:
Rubus bifrons, Sambucus racemosa, Populus trichocarpa, Fraxinus latifolia, Helix hedera, Marah oreganus

- COWARDIN CODES:**
- PFO = palustrine forested
 - PSS = palustrine scrub-shrub
 - PEM = palustrine emergent
 - POW = palustrine open water
 - E2SS = estuarine scrub shrub
 - E2FO = estuarine forested
 - E2EM = estuarine emergent
- HGM CODES:**
- RI = River Impounding
 - DA = Depressional Alkaline
 - EFB = Estuarine Fringe Embayment
 - LFH = Lacustrine Fringe Headwater
 - EFR = Estuarine Fringe Riverine
 - LFV = Lacustrine Fringe Valley
 - RFT = Riverine Flow Through
 - DB = Depressional Bog

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/24/20	Wetland Sample Plot:	MR-5
Data Sheet Numbers:	MR-5	Size (acres):	0.77
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PFO
Wetland Polygons:	MRW-4	HGM Class(es):	S

Location -- Legal:	T18S, R2W, Section 8
Other:	Island near Clearwater Park
Tax Lots:	1802080000500
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Fluvents, nearly level; Newberg fine sand, loam
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Salix lasiandra</i>	Pacific willow	<i>Phalaris arundinacea</i>	Reed canary grass
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Carex obnupta</i>	Slough sedge
		<i>Rubus ursinus</i>	Trailing blackberry

Comments: **Not Significant**

Adjacent upland species:
Acer macrophyllum, Populus trichocarpa, Phalaris arundinacea, Rubus bifrons, Crataegus sp.

- COWARDIN CODES:**
PFO = palustrine forested
PSS = palustrine scrub-shrub
PEM = palustrine emergent
POW = palustrine open water
E2SS = estuarine scrub shrub
E2FO = estuarine forested
E2EM = estuarine emergent
- HGM CODES:**
RI = River Impounding
DA = Depressional Alkaline
EFB = Estuarine Fringe Embayment
LFH = Lacustrine Fringe Headwater
EFR = Estuarine Fringe Riverine
LFV = Lacustrine Fringe Valley
RFT = Riverine Flow Through
DB = Depressional Bog

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/24/20	Wetland Sample Plot:	MR-6
Data Sheet Numbers:	MR-6	Size (acres):	1.29
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	R2UB
Wetland Polygons:	MFWR-2	HGM Class(es):	RFT

Location -- Legal:	T18S, R2W, Section 8
Other:	Island near Clearwater Park
Tax Lots:	1802080000500
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Fluvents, nearly level; Newberg fine sand, loam
Hydrologic Source:	Surface Flow

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Alnus rubra</i>	Red alder	<i>Scirpus microcarpus</i>	Panicled bulrush
<i>Salix sp.</i>	Willow	<i>Mosotis laxa</i>	Forget-me-not
<i>Salix lasiandra</i>	Pacific willow	<i>Polygonum sp.</i>	Knotweed
		<i>Phalaris arundinacea</i>	Reed canary grass

Comments: **Locally Significant**

Adjacent upland species:
Phalaris arundinacea, Polystichum munitum, Populus trichocarpa

- COWARDIN CODES:**
 PFO = palustrine forested
 PSS = palustrine scrub-shrub
 PEM = palustrine emergent
 POW = palustrine open water
 E2SS = estuarine scrub shrub
 E2FO = estuarine forested
 E2EM = estuarine emergent
- HGM CODES:**
 RI = River Impounding
 DA = Depressional Alkaline
 EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater
 EFR = Estuarine Fringe Riverine
 LFV = Lacustrine Fringe Valley
 RFT = Riverine Flow Through
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/24/20	Wetland Sample Plot:	MR-7
Data Sheet Numbers:	MR-7	Size (acres):	1.41
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	R2UB
Wetland Polygons:	MFWR-3	HGM Class(es):	RFT

Location -- Legal:	T18S, R2W, Section 8
Other:	Willamette River side channel west of Clearwater Park
Tax Lots:	1802080000600
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	River wash; Fluvents, nearly level; Newburg fine sandy loam
Hydrologic Source:	Surface Flow

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Salix sp.</i>	Willow	<i>Urtica dioica</i>	Stinging nettle
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Phalaris arundinacea</i>	Reed canary grass
<i>Fraxinus latifolia</i>	Oregon ash	<i>Carex obnupta</i>	Slough sedge
		<i>Lapsana communis</i>	Nipplewort
		<i>Stachys Cooleyae</i>	Cooley's hedge nettle
		<i>Cirsium arvense</i>	Creeping thistle

Comments: **Locally Significant**

Adjacent upland species:
Populus trichocarpa, Rubus bifrons, Phalaris arundinacea, Urtica dioica, Alnus rubra, Hedera helix

COWARDIN CODES:

PFO = palustrine forested
 PSS = palustrine scrub-shrub

PEM = palustrine emergent
 POW = palustrine open water

E2SS = estuarine scrub shrub
 E2FO = estuarine forested

E2EM = estuarine emergent

HGM CODES:

RI = River Impounding
 DA = Depressional Alkaline

EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater

EFR = Estuarine Fringe Riverine
 LFV = Lacustrine Fringe Valley

RFT = Riverine Flow Through
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/24/20	Wetland Sample Plot:	MR-8
Data Sheet Numbers:	MR-8	Size (acres):	7.84
Investigator(s):	LF, CB, DM, PS, JC	Cowardin Class(es):	PEM
Wetland Polygons:	MRW-7B, MRW-7C, MRW-7D	HGM Class(es):	RFT, SF

Location -- Legal:	T18S, R2W, Section 5
Other:	West of Clearwater Park near paved path
Tax Lots:	1802080000600
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Fluvents, nearly level; Newberg fine sand, loam
Hydrologic Source:	Surface Flow

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Fraxinus latifolia</i>	Oregon ash	<i>Phragmites arundinacea</i>	Reed canary grass
		<i>Veronica sp.</i>	Speedwell

Comments: **Locally Significant**

Adjacent upland species:
Acer macrophyllum, *Symphoricarpos sp.*, *Rubus parviflorus*

- COWARDIN CODES:**
 PFO = palustrine forested
 PSS = palustrine scrub-shrub
 PEM = palustrine emergent
 POW = palustrine open water
 E2SS = estuarine scrub shrub
 E2FO = estuarine forested
 E2EM = estuarine emergent
- HGM CODES:**
 RI = River Impounding
 DA = Depressional Alkaline
 EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/24/20	Wetland Sample Plot:	MR-9
Data Sheet Numbers:	MR-9	Size (acres):	1.17
Investigator(s):	LF, CB, DM, PS, JC	Cowardin Class(es):	PSS
Wetland Polygons:	MRW-5, MRW-6, MRW-11	HGM Class(es):	S

Location -- Legal:	T18S, R2W, Section 6
Other:	Remnant Middle Fork Willamette River scour channel
Tax Lots:	1802060001600
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Fluvents, nearly level; Camas gravelly sandy loam, occasionally flooded
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Cornus sericea</i>	Red-osier dogwood	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Fraxinus latifolia</i>	Oregon ash	<i>Carex obnupta</i>	Slough sedge
<i>Populus balsamifera</i>	Balsam poplar	<i>Scirpus microcarpus</i>	Panicled bulrush

Comments: **Locally Significant**

Adjacent upland species:
Fraxinus latifolia, *Acer macrophyllum*

- COWARDIN CODES:**
 PFO = palustrine forested
 PSS = palustrine scrub-shrub
 PEM = palustrine emergent
 POW = palustrine open water
 E2SS = estuarine scrub shrub
 E2FO = estuarine forested
 E2EM = estuarine emergent
- HGM CODES:**
 RI = River Impounding
 DA = Depressional Alkaline
 EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater
 EFR = Estuarine Fringe Riverine
 LFV = Lacustrine Fringe Valley
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/25/20	Wetland Sample Plot:	MR-10
Data Sheet Numbers:	MR-10	Size (acres):	0.99
Investigator(s):	CB, LF, PS, JC	Cowardin Class(es):	PSS
Wetland Polygons:	MRW-8	HGM Class(es):	S

Location -- Legal:	T18S, R2W, Section 6
Other:	Off equestrian trail
Tax Lots:	1802060001600
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Fluvents, nearly level; Newberg loam
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Populus trichocarpa</i>	Black cottonwood	<i>Carex obnupta</i>	Slough sedge
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Sagittaria arifolia</i>	Arrowhead
<i>Cornus sericea</i>	Red-osier dogwood	<i>Rubus ursinus</i>	Trailing blackberry
<i>Symphoricarpos albus</i>	Common snowberry	<i>Athyrium filix-femina</i>	Lady fern

Comments: **Locally Significant**

Adjacent upland species:
Symphoricarpos sp., *Acer macrophyllum*, *Phalaris arundinacea*, *Physocarpus capitatus*, *Corylus cornuta*

- COWARDIN CODES:**
PFO = palustrine forested
PSS = palustrine scrub-shrub
PEM = palustrine emergent
POW = palustrine open water
E2SS = estuarine scrub shrub
E2FO = estuarine forested
E2EM = estuarine emergent
- HGM CODES:**
RI = River Impounding
DA = Depressional Alkaline
EFB = Estuarine Fringe Embayment
LFH = Lacustrine Fringe Headwater
EFR = Estuarine Fringe Riverine
LFV = Lacustrine Fringe Valley
RFT = Riverine Flow Through
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/25/20	Wetland Sample Plot:	MR-11
Data Sheet Numbers:	MR-11	Size (acres):	1.23
Investigator(s):	CB, LF, PS, JC	Cowardin Class(es):	PSS
Wetland Polygons:	MRW-9	HGM Class(es):	S

Location -- Legal:	T18S, R2W, Section 6
Other:	Off main trail
Tax Lots:	1802060001600
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Pits; Newberg fine sandy loam
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Salix lasiandra</i>	Pacific willow	<i>Mycophis laxa</i>	Forget-me-not
<i>Salix exigua</i>	Sandbar willow	<i>Phalaris arundinacea</i>	Reed canary grass
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Mentha pulegium</i>	Pennyroyal
		<i>Hypochaeris radicata</i>	Catsear
		<i>Potamogeton sp.</i>	Pondweed
		<i>Eleocharis palustris</i>	Common spikerush
		<i>Juncus acuminatus</i>	Tapertip rush
		<i>Leeria oryzoides</i>	Rice cut grass
		<i>Lotus corniculatus</i>	Bird's-foot trefoil
		<i>Rubus ursinus</i>	Trailing blackberry

Comments: **Locally Significant**

Adjacent upland species:
Acer macrophyllum, *Populus trichocarpa*, *Fraxinus latifolia*, *Rubus bifrons*, *Agrostis tenuis*, *Vicia sp.*, *Bromus commutatus*, *Geranium dissectum*, *Bellardia viscosa*, *Trifolium dubium*

COWARDIN CODES:

PFO = palustrine forested
 PSS = palustrine scrub-shrub

PEM = palustrine emergent
 POW = palustrine open water

E2SS = estuarine scrub shrub
 E2FO = estuarine forested

E2EM = estuarine emergent

HGM CODES:

RI = River Impounding
 DA = Depressional Alkaline

EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater

EFR = Estuarine Fringe Riverine
 LFV = Lacustrine Fringe Valley

RFT = Riverine Flow Through
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work: 06/25/20	Wetland Sample Plot: MR-12
Data Sheet Numbers: MR-12	Size (acres): 1.94
Investigator(s): LF, DM, PS, JC	Cowardin Class(es): PSS
Wetland Polygons: MRW-10	HGM Class(es): S

Location -- Legal: T18S, R2W, Section 6	Other: Near SUB property off trail
Tax Lots: 1802060001600	Hydrologic basin: Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series: Fluvents, nearly level; Pits; Newberg fine sandy loam	Hydrologic Source: Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Salix lasiandra</i>	Pacific willow	<i>Phalaris arundinacea</i>	Reed canary grass
<i>Cornus sericea</i>	Red-osier dogwood	<i>Rubus ursinus</i>	Trailing blackberry
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Eieocharis palustris</i>	Common spikerush
		<i>Mentha pulegium</i>	Pennyroyal
		<i>Leeria oryzoides</i>	Rice cutgrass
		<i>Lotus corniculatus</i>	Bird's-foot trefoil
		<i>Epilobium ciliatum</i>	Fringed willowherb
		<i>Bidens frondosa</i>	Devil's beggartick
		<i>Myosotis laxa</i>	forget-me-not

Comments: **Locally Significant**

Adjacent upland species:
Cornus sericea, *Acer macrophyllum*, *Populus trichocarpa*, *Symphoricarpos sp.*, *Fraxinus latifolia*, *Hypericum perforatum*, *Marah oreganus*, *Phalaris arundinacea*, *Dipsacus fullonum*, *Rubus bifrons*, *Digitalis purpurea*, *Cirsium sp.*, *Lupinus sp.*

- COWARDIN CODES:**
PFO = palustrine forested
PSS = palustrine scrub-shrub
PEM = palustrine emergent
POW = palustrine open water
E2SS = estuarine scrub shrub
E2FO = estuarine forested
E2EM = estuarine emergent
- HGM CODES:**
RI = River Impounding
DA = Depressional Alkaline
EFB = Estuarine Fringe Embayment
LFH = Lacustrine Fringe Headwater
EFR = Estuarine Fringe Riverine
LFV = Lacustrine Fringe Valley
RFT = Riverine Flow Through
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/25/20	Wetland Sample Plot:	MR-13
Data Sheet Numbers:	MR-13	Size (acres):	0.22
Investigator(s):	LF, DM, PS, JC	Cowardin Class(es):	PSS
Wetland Polygons:	MRW-12	HGM Class(es):	S

Location -- Legal:	T18S, R2W, Section 6
Other:	Near SUB property off trail
Tax Lots:	1802060001600
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Newberg fine sandy loam; Newberg loam, fluviols, nearly level
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Cornus sericea</i>	Red-osier dogwood	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Urtica dioica</i>	Stinging nettle
<i>Physocarpus capitatus</i>	Pacific Ninebark	<i>Equisetum hyemale</i>	Horsetail
<i>Rubus spectabilis</i>	Salmonberry	<i>Heracleum maximum</i>	Parsnip
		<i>Rubus ursinus</i>	Trailing blackberry
		<i>Rubus parviflorus</i>	Thimbleberry
		<i>Oenanthe sarmentosa</i>	Water parsley

Comments: **Locally Significant**

Adjacent upland species:
Polystichum munitum, *Corylus cornuta*, *Rubus bifrons*, *Cornus sericea*, *Acer macrophyllum*, *Populus trichocarpa*, *Symphoricarpos* sp.

- COWARDIN CODES:**
PFO = palustrine forested
PSS = palustrine scrub-shrub
PEM = palustrine emergent
POW = palustrine open water
E2SS = estuarine scrub shrub
E2FO = estuarine forested
E2EM = estuarine emergent
- HGM CODES:**
RI = River Impounding
DA = Depressional Alkaline
EFB = Estuarine Fringe Embayment
LFH = Lacustrine Fringe Headwater
EFR = Estuarine Fringe Riverine
LFV = Lacustrine Fringe Valley
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/25/20	Wetland Sample Plot:	MR-14
Data Sheet Numbers:	MR-14	Size (acres):	0.96
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PEM
Wetland Polygons:	MRW-13A, MRW-13B	HGM Class(es):	S

Location -- Legal:	T18S, R2W, Section 6
Other:	On SUB property
Tax Lots:	1802060001300
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Newberg loam; Newberg fine sandy loam; Cloqueno silt loam
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Salix lasiandra</i>	Pacific willow	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Carex obnupta</i>	Slough sedge

Comments: **Locally Significant**

Adjacent upland species:
Acer macrophyllum, Rubus bifrons, Urtica dioica, Alnus rubra, Corylus cornuta

- COWARDIN CODES:**
 PFO = palustrine forested
 PSS = palustrine scrub-shrub
 PEM = palustrine emergent
 POW = palustrine open water
 E2SS = estuarine scrub shrub
 E2FO = estuarine forested
 E2EM = estuarine emergent
- HGM CODES:**
 RI = River Impounding
 DA = Depressional Alkaline
 EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater
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 LFV = Lacustrine Fringe Valley
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/25/20	Wetland Sample Plot:	MR-15
Data Sheet Numbers:	MR-15	Size (acres):	3.88
Investigator(s):	CB, LF, PS, JC, DM	Cowardin Class(es):	PEM, PSS
Wetland Polygons:	MRW-15A, MRW-15B, MRW-15C, MRW-15D	HGM Class(es):	RFT

Location -- Legal:	T18S, R3W, Section 1
Other:	On SUB property that borders southern properties
Tax Lots:	1803010002700
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Newberg fine sandy loam; Newberg loam
Hydrologic Source:	Surface Flow

Dominant Wetland Vegetation			
TREES / SHRUBS	VINES / HERBS		
<i>Rosa pisacarpa</i>	Swamp rose	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Iris pseudacorus</i>	Yellow flag iris
<i>Symphoricarpos albus</i>	Common snowberry	<i>Lotus corniculatus</i>	Bird's-foot trefoil
<i>Fraxinus latifolia</i>	Oregon ash	<i>Carex obtusa</i>	Slough sedge
		<i>Athyrium filix-femina</i>	Lady fern
		<i>Brachypodium sylvaticum</i>	False brome
		<i>Cirsium arvense</i>	Creeping thistle
		<i>Rubus ursinus</i>	Trailing blackberry

Comments: **Locally Significant**

Adjacent upland species:
Acer macrophyllum, Symphoricarpos sp., Rubus bifrons, Fraxinus latifolia, Myosotis sp., Polystichum munitum, Populus trichocarpa, Galium aparine, Prunella vulgaris, Hypochaeris radicata, Leucanthemum vulgare, Bambusoideae sp., Clematis sp.

- COWARDIN CODES:**
 PFO = palustrine forested
 PSS = palustrine scrub-shrub
 PEM = palustrine emergent
 POW = palustrine open water
 E2SS = estuarine scrub shrub
 E2FO = estuarine forested
 E2EM = estuarine emergent
- HGM CODES:**
 RI = River Impounding
 DA = Depressional Alkaline
 EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/25/20	Wetland Sample Plot:	MR-16
Data Sheet Numbers:	MR-16	Size (acres):	1.12
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PAB
Wetland Polygons:	MRW-18	HGM Class(es):	S

Location -- Legal:	T18S, R3W, Section 1
Other:	Pond on private tax lot 1803010001700.
Tax Lots:	1803010001700
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Camas gravelly sandy loam, occasionally flooded Newberg loam
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Salix lasiandra</i>	Pacific willow	<i>Carex obnupta</i>	Slough sedge
<i>Populus balsamifera</i>	Balsam poplar	<i>Arrostis capillaris</i>	Colonial bentgrass
<i>Salix sp. (ornamental)</i>	Willow (ornamental)	<i>Iris pseudacorus</i>	Yellow Flag Iris
		<i>Potamogeton sp.</i>	Pondweed
		<i>Eleocharis palustris</i>	Common spikerush

Comments: **Not Significant**

Adjacent upland species:
Populus trichocarpa, Phalaris arundinacea, Avena fatua, Cynosurus echinatus

- COWARDIN CODES:**
 PFO = palustrine forested
 PSS = palustrine scrub-shrub
 PEM = palustrine emergent
 POW = palustrine open water
 E2SS = estuarine scrub shrub
 E2FO = estuarine forested
 E2EM = estuarine emergent
- HGM CODES:**
 RI = River Impounding
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/26/20	Wetland Sample Plot:	MR-17
Data Sheet Numbers:	MR-17	Size (acres):	1.42
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PEM
Wetland Polygons:	MRW-14A, MRW-14B, MRW-14C	HGM Class(es):	RFT

Location -- Legal:	T18S, R3W, Section 1
Other:	Ditch near culvert on SUB property
Tax Lots:	1803010002800
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Newberg fine sandy loam; Camas gravelly sandy loam, occasionally flooded
Hydrologic Source:	Surface Flow

Dominant Wetland Vegetation			
TREES / SHRUBS	VINES / HERBS		
<i>Alnus rubra</i>	Red alder	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Urtica dioica</i>	Stinging nettle
		<i>Galium aparine</i>	Bedstraw

Comments: **Locally Significant**

Adjacent upland species:
Rubus bifrons, Fraxinus latifolia, Vicia americana, Oryzopsis hymenoides, Daucus carota, Geranium sp.

- COWARDIN CODES:**
 PFO = palustrine forested
 PSS = palustrine scrub-shrub
 PEM = palustrine emergent
 POW = palustrine open water
 E2SS = estuarine scrub shrub
 E2FO = estuarine forested
 E2EM = estuarine emergent
- HGM CODES:**
 RI = River Impounding
 DA = Depressional Alkaline
 EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater
 EFR = Estuarine Fringe Riverine
 LFV = Lacustrine Fringe Valley
 RFT = Riverine Flow Through
 DB = Depressional Bog

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/26/20	Wetland Sample Plot:	MR-18
Data Sheet Numbers:	MR-18	Size (acres):	2.26
Investigator(s):	LF, CB, PS, JC	Cowardin Class(es):	PUB
Wetland Polygons:	MRW-14D	HGM Class(es):	RFT

Location -- Legal:	T18S, R3W, Section 1
Other:	Pond at end of culvert ditch
Tax Lots:	1803010003000
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Camas gravelly sandy loam, occasionally flooded
Hydrologic Source:	Surface Flow

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Carex obnupta</i>	Slough sedge
<i>Salix sp.</i>	Willow	<i>Iris pseudacorus</i>	Yellow Flag Iris
<i>Rhamnus purshiana</i>	Cascara	<i>Cirsium arvense</i>	Creeping thistle
		<i>Juncus effusus</i>	Soft rush
		<i>Scirpus microcarpus</i>	Panicled bulrush
		<i>Ilex sp.</i>	Holly
		<i>Athyrium felix-femina</i>	Lady fern
		<i>Phalaris arundinacea</i>	Reed canary grass
		<i>Lotus corniculatus</i>	Bird's-foot trefoil

Comments:	Locally Significant
Adjacent upland species: <i>Alnus rubra, Fraxinus latifolia, Rubus bifrons, Leucanthemum vulgare, Agrostis tenuis, Holcus lanatus, Schedonorus arundinaceus, Bromus sp., Alopecurus pratensis</i>	

COWARDIN CODES:

PFO = palustrine forested
PSS = palustrine scrub-shrub

PEM = palustrine emergent
POW = palustrine open water

E2SS = estuarine scrub shrub
E2FO = estuarine forested

E2EM = estuarine emergent

HGM CODES:

RI = River Impounding
DA = Depressional Alkaline

EFB = Estuarine Fringe Embayment
LFH = Lacustrine Fringe Headwater

EFR = Estuarine Fringe Riverine
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RFT = Riverine Flow Through
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	06/26/20	Wetland Sample Plot:	MR-19
Data Sheet Numbers:	MR-19	Size (acres):	2.1
Investigator(s):	LF, CB	Cowardin Class(es):	PUB
Wetland Polygons:	MRW-17	HGM Class(es):	S

Location -- Legal:	T18S, R3W, Section 1
Other:	Open water pond, near a camp and user-created trail
Tax Lots:	1803010003500
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Riverwash; Camas gravelly sandy loam, occasionally flooded
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES / SHRUBS	VINES / HERBS		
<i>Alnus rubra</i>	Red alder	<i>Phalaris arundinacea</i>	Reed canary grass
<i>Salix lasiandra</i>	Pacific willow	<i>Carex obnupta</i>	Slough sedge
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Holcus lanatus</i>	Common velvetgrass
<i>Fraxinus latifolia</i>	Oregon ash	<i>Schedonorus arundinaceus</i>	Tall fescue
		<i>Agrostis capillaris</i>	Colonial bentgrass

Comments: **Locally Significant**

Adjacent upland species:
Rubus bifrons, Phalaris arundinacea, Fraxinus latifolia, Melilotus sp., Rubus ursinus, Lathyrus odoratus

- COWARDIN CODES:**
- PFO = palustrine forested
 - PSS = palustrine scrub-shrub
 - PEM = palustrine emergent
 - POW = palustrine open water
 - E2SS = estuarine scrub shrub
 - E2FO = estuarine forested
 - E2EM = estuarine emergent
- HGM CODES:**
- RI = River Impounding
 - DA = Depressional Alkaline
 - EFB = Estuarine Fringe Embayment
 - LFH = Lacustrine Fringe Headwater
 - EFR = Estuarine Fringe Riverine
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	07/13/20	Wetland Sample Plot:	MR-20
Data Sheet Numbers:	MR-20	Size (acres):	3.51
Investigator(s):	LF, DM, PS, JC	Cowardin Class(es):	PSS, R2UB
Wetland Polygons:	MRW-26A, MRW-26B, MRW-27	HGM Class(es):	RFT

Location -- Legal:	T18S, R3W, Section 1
Other:	Quarry Creek near connection to Gorrie Creek.
Tax Lots:	1803010001302
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	McBee silty clay loam; Ritner cobbly silty clay loam, 30 to 60 percent slopes; Newberg fine sandy loam
Hydrologic Source:	Surface Flow

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Alnus rubra</i>	Red alder	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Salix lasiandra</i>	Pacific willow	<i>Urtica dioica</i>	Stinging nettle
<i>Cornus sericea</i>	Red-osier dogwood	<i>Galium aparine</i>	Bedstraw
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Carex obnupta</i>	Slough sedge

Comments: **Locally Significant**

Adjacent upland species:
Rubus bifrons, *Acer macrophyllum*, *Cornus sericea*, *Salix sp.*

COWARDIN CODES:

PFO = palustrine forested
 PSS = palustrine scrub-shrub

PEM = palustrine emergent
 POW = palustrine open water

E2SS = estuarine scrub shrub
 E2FO = estuarine forested

E2EM = estuarine emergent

HGM CODES:

RI = River Impounding
 DA = Depressional Alkaline

EFB = Estuarine Fringe Embayment
 LFH = Lacustrine Fringe Headwater

EFR = Estuarine Fringe Riverine
 LFV = Lacustrine Fringe Valley

RFT = Riverine Flow Through
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	07/13/20	Wetland Sample Plot:	MR-21
Data Sheet Numbers:	MR-21	Size (acres):	2.96
Investigator(s):	LF, DM, PS, JC	Cowardin Class(es):	PEM, PSS
Wetland Polygons:	MRW-16, MRW-25B, MRW-25C, MRW-25D	HGM Class(es):	S

Location -- Legal:	T18S, R3W, Section 1
Other:	Between SUB and private tax lot 1803010001300.
Tax Lots:	1803010001300
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	McBee silty clay loam; Newberg fine sandy loam
Hydrologic Source:	Precipitation or Sheet Flow

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Alnus rubra</i>	Red alder	<i>Phragmites arundinacea</i>	Reed canary grass
<i>Corylus cornuta</i>	Beaked hazelnut	<i>Juncus effusus</i>	Soft rush
<i>Salix sp.</i>	Willow	<i>Cirsium arvense</i>	Creeping thistle
		<i>Lathyrus latifolia</i>	Everlasting pea
		<i>Carex obnupta</i>	Slough sedge

Comments: **Locally Significant**

Adjacent upland species:
Cirsium sp., *Lathyrus odoratus*

- COWARDIN CODES:**
 PFO = palustrine forested
 PSS = palustrine scrub-shrub
 PEM = palustrine emergent
 POW = palustrine open water
 E2SS = estuarine scrub shrub
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	07/13/20	Wetland Sample Plot:	MR-22
Data Sheet Numbers:	MR-22	Size (acres):	0.13
Investigator(s):	LF, PS	Cowardin Class(es):	PEM
Wetland Polygons:	MRW-23	HGM Class(es):	S

Location -- Legal:	T18S, R3W, Section 1
Other:	Middle of rye grass field near power lines on City property.
Tax Lots:	1803010000502
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	McBee silty clay loam; Newberg loam
Hydrologic Source:	Precipitation or Sheet Flow

Dominant Wetland Vegetation	
TREES / SHRUBS	VINES / HERBS
-	<i>Cyperus sp.</i> Papyrus
	<i>Gallardia viscosa</i> Yellow glandweed
	<i>Lolium sp.</i> Rye grass
	<i>Carex sp.</i> Carex
	<i>Eleocharis palustris</i> Common spikerush
	<i>Ranunculus repens</i> Creeping buttercup
	<i>Trifolium repens</i> White clover
	<i>Convolvulus arvensis</i> Field bindweed

Comments: **Locally Significant**

Adjacent upland species:
Anthoxanthum odoratum, *Trifolium sp.*, *Crepis sp.*

COWARDIN CODES:

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PEM = palustrine emergent
 POW = palustrine open water

E2SS = estuarine scrub shrub
 E2FO = estuarine forested

E2EM = estuarine emergent

HGM CODES:

RI = River Impounding
 DA = Depressional Alkaline

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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	07/13/20	Wetland Sample Plot:	MR-23
Data Sheet Numbers:	MR-23	Size (acres):	0.79
Investigator(s):	LF, DM, PS, JC	Cowardin Class(es):	PEM, PFO, PUB
Wetland Polygons:	MRW-19, MRW-20, MRW-21, MRW-22	HGM Class(es):	S

Location -- Legal:	T18S, R3W, Section 1
Other:	Northwest corner of Grassroots Meadows LLC farm, south of Mill Race.
Tax Lots:	1803010000501
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Newberg loam
Hydrologic Source:	Precipitation or Sheet Flow

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Populus balsamifera</i>	Balsam poplar	<i>Trifolium repens</i>	White clover
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Ranunculus repens</i>	Creeping buttercup
		<i>Agrostis capillaris</i>	Colonial bentgrass
		<i>Holcus lanatus</i>	Common velvetgrass
		<i>Lotus corniculatus</i>	Bird's-foot trefoil

Comments: **Locally Significant**

Adjacent upland species:
Populus trichocarpa, Rubus bifrons, Trifolium repens, Ranunculus repens, Dipsacus sativus, Agrostis tenuis, Holcus lanatus

- COWARDIN CODES:**
PFO = palustrine forested
PSS = palustrine scrub-shrub
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- HGM CODES:**
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Wetland Characterization Sheet



Project Name: City of Springfield - UGB-Expansion-Areas LWI

Date(s) of field work:	07/13/20	Wetland Sample Plot:	MR-24
Data Sheet Numbers:	MR-24	Size (acres):	1.61
Investigator(s):	LF, DM, PS, JC	Cowardin Class(es):	PSS, PEM, PFO
Wetland Polygons:	MRW-24A, MRW-24B, MRW-25A, MRW-28, MRW-29	HGM Class(es):	S

Location -- Legal:	T18S, R3W, Section 1
Other:	South of Mill Race and east of the north end of Grassroots Meadows LLC farm on City property.
Tax Lots:	1803010000502
Hydrologic basin:	Mill Race-Middle Fork Willamette River (170900011003)
Soil -- Mapped series:	Newberg loam; Cloquato silt loam
Hydrologic Source:	Precipitation or Sheet Flow

Dominant Wetland Vegetation		Dominant Wetland Vegetation	
TREES / SHRUBS		VINES / HERBS	
<i>Fraxinus latifolia</i>	Oregon ash	<i>Carex obnupta</i>	Slough sedge
<i>Rubus bifrons</i>	Himalayan blackberry	<i>Polygonum sarmentosum</i>	Water parsley
<i>Populus balsamifera</i>	Balsam poplar	<i>Rubus ursinus</i>	Trailing blackberry

Comments: **Locally Significant**

Adjacent upland species:
Polystichum munitum, Holodiscus discolor, Acer macrophyllum, Rubus bifrons, Rubus ursinus, Dipsacus sativus

- COWARDIN CODES:**
PFO = palustrine forested
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PEM = palustrine emergent
POW = palustrine open water
E2SS = estuarine scrub shrub
E2FO = estuarine forested
E2EM = estuarine emergent
- HGM CODES:**
RI = River Impounding
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