

**Mitigation Monitoring Report Cover Sheet**  
**Oregon Department of State Lands**

**Block 1: Report Information**

|                                                                    |                                |                   |
|--------------------------------------------------------------------|--------------------------------|-------------------|
| DSL Permit Number: RF-36703                                        |                                |                   |
| COE Permit Number: <i>Nationwide Permit 27</i> -#200500701         |                                |                   |
| Permittee: <i>Gilmour</i>                                          |                                |                   |
| County: <i>Benton</i>                                              | Report Date: December 11, 2013 | Monitoring Year 7 |
| Date Removal-Fill Activity Completed:                              |                                |                   |
| Date mitigation was completed Grading: 10/06 Planting: 5/07, 10/07 |                                |                   |
| Report submitted by: Oregon Wetlands LLC                           |                                |                   |

**Block 2: Monitoring Report Purpose**

This monitoring report is for monitoring a project that includes: (check all that apply):

- X     Compensatory **freshwater** wetland mitigation for permanent wetland impacts.
- Compensatory **estuarine** wetland mitigation for permanent wetland impacts.
- Only non-wetland** compensatory mitigation.
- Only mitigation for temporary** impacts that has a monitoring requirement.
- Voluntary wetland enhancement, creation or restoration (General authorization or individual permit) not funded with money from our wetland mitigation revolving fund.
- Voluntary wetland enhancement, creation or restoration (General authorization or individual permit) funded with money from **our wetland mitigation revolving fund**.

- X     **Mitigation Bank** Report

Other: \_\_\_\_\_

**Block 3: Results**

|    | Success Criteria             | Met? (Y/N)          | Comments/Reasons for Failure* |
|----|------------------------------|---------------------|-------------------------------|
| 1. | Emergent Herbaceous          | 3 of 3 requirements |                               |
| 2. | Wetgrass Prairie             | 6 of 6 requirements |                               |
| 3. | Shrub and Forest Restoration | 6 of 6 requirements |                               |
| 4. | Forest - Enhanced            | 2 of 2 requirements | Completed                     |
| 5. | Hydrology - Delineation      | 1 of 1 requirements | Completed                     |

|                                                                                                  |                             |      |
|--------------------------------------------------------------------------------------------------|-----------------------------|------|
| Remedial work recommended                                                                        | Yes                         | No X |
| Deed Restriction or other protection instrument attached                                         |                             |      |
| (noted: if a filed deed restriction was a required as a permit condition, please attach a copy): | <i>previously submitted</i> | No   |
| Final Monitoring Report?                                                                         | Yes                         | No X |
| Requesting release or partial release of bond/credits                                            | Yes                         | No X |

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## 1.0 REGULATORY BACKGROUND

The purpose of this report is to summarize the progress of the Evergreen Creek Wetland Mitigation Bank (Bank). The Bank is located on the west side of Bellfountain Road, at the intersection of Bellfountain and 53<sup>rd</sup> Street in T12S, R5W, Sec. 19, Tax Lot 700. The letter of approval for the Bank was signed on February 27, 2007 and is permitted as ACOE permit #200500701.

The Bank is 174.52 acres, which includes a combination of enhancement of cropped wetland (161.5 acres), enhancement of remnant ash and shrub/scrub riparian area (13.4 acres). The total potential credits produced include:

| <u>Type of Credit</u>                  | <u>Acres</u> | <u>Ratio</u> | <u>Credits</u>       |
|----------------------------------------|--------------|--------------|----------------------|
| Cropped Wetland Enhancement            | 161.12       | 2:1          | 80.31                |
| Enhancement                            | 13.4         | 3:1          | 4.46                 |
| Total                                  | 174.52 acres |              | 84.77                |
| Credits Used for Graveled Parking Area |              |              | (0.25)               |
| Total Credits Produced                 |              |              | <b>84.52 credits</b> |

## 2.0 WORK SUMMARY

Beginning in early March, efforts concentrated on covering all older prairie areas to spot treat unwanted species before native grasses got tall and inhibited detection. All prairie areas were covered with ATV at least two times targeting velvet grass, bent grass, rough-stalk bluegrass, annual blue grass, and any other non-natives encountered. All forbs dominated areas received a grass specific herbicide treatment in early spring to decrease grass cover and allow the forbs species to dominate. Forbs dominated prairie areas were walked multiples times with backpacks targeting Prickly lettuce, Thistle spp., and any other non-native species encountered, which was much less times consuming this year as natives forbs continue to expand. A 60ft band along the South, North and West boundaries were broadleaf herbicide treated when conditions were favorable to prevent encroachment from surrounding properties. All tree and shrub plantings were covered with ATV in late spring to spot treat any invading species, Canadian thistles, prickly lettuce, and sow thistles were the primary targets. Since decreasing mowing in the PFO/PSS areas, non-natives have become much less of an issue, and some areas are beginning to get enough canopy cover to eliminate herbaceous species.

The existing forested area was periodically spot treated throughout the season, with St. John’s wart and Curly dock being the main targets. The emergent areas were covered in early fall to spot treat any pennyroyal present, and monitor for any other non-natives. Also in early fall, the few Himalayan blackberries that had been encountered within the site throughout the season were treated, which provides the most effective long term control. All borders were spot treated for non-natives to prevent these species from entering the site. Several areas of nutria activity were eliminated with their residents and filled in.

Mowing this year was again focused on providing access points to the entire site without having to negotiate tall vegetation through the fall and early spring. A total of ~15 acres was mowed mainly

consisting of meandering 40' paths. Several paths intentionally traversed forbs dominated areas to gauge their response to mowing, as well as seed dispersal. In addition, a ~1 acre area in the prairie on the south side of the site was mowed to continue experimenting with forbs planting. This area was treated with a broad-spectrum herbicide when in greened up in the fall and again 1 week following planting in mid-October. The seed mix was purchased from Heritage seedlings and contained mostly species which have been unavailable in the past, and not typically found to naturally re-occupy sites in a reasonable timeframe. Many annuals and a few perennials with airborne seed dispersal as well as several Carex species which are not typically remaining in the remnant seed bank were the main focus. This mix was also planted at the Mid-Valley bank.

**Table 1 - Summary of Restoration Activities at Evergreen Mitigation Bank from December 2012 through November 2013**

| <b>Activity</b>                        | <b>Location</b>                                                                         |
|----------------------------------------|-----------------------------------------------------------------------------------------|
| Site Preparation                       | Ongoing on borders                                                                      |
| Existing forested vegetation treatment | All non-native vegetation treated (on-going)                                            |
| Prairie seeding (Fall)                 | A diverse mix of forbs and sedges was planted in ~1 acres of prairie on the South side. |
| Spot weed control                      | 100% of mitigation bank area (on going)                                                 |
| Broadleaf weed control                 | 60ft band along south and west borders (spring)                                         |
| Mowing 2013                            | Maintenance trails, new prairie plot                                                    |
|                                        |                                                                                         |

### 3.0 AS-BUILT PLANS

The as-built plans were submitted within 60 days of grading as specified in the final instrument.

## 4.0 HYDROLOGY PERFORMANCE STANDARDS, METHODOLOGY, AND RESULTS

### 4.1 PERFORMANCE STANDARDS

Wetland hydrology sufficient to meet the criteria defined in the 1987 Corps of Engineers Wetland Delineation Manual (1987 Wetland Delineation Manual), will be present in at least three out of five years if the weather records are close to normal and no irrigation is supplied. Water depth and depth of saturation will be evaluated throughout the site using a combination of monitoring wells and a one time hydrology and vegetation delineation designed to meet the requirements of the 1987 Wetland Delineation Manual. The soil parameter is expected to be disturbed by the proposed grading, therefore lack of hydric soils indicators will not be interpreted as disqualifying a plot as wetland.

### 4.2 METHODOLOGY:

**Water Monitoring Tubes:** Ten (number of tubes will be driven by the site conditions, following bank grading) groundwater monitoring tubes will be constructed and monitored to show the duration of saturation. Tube monitoring data shall be collected three times between approximately March 1 and May 30 to demonstrate sufficient duration of wetness to meet the 1987 Wetland Delineation Manual. The monitoring report will also include precipitation date for the monitoring period from the nearest recording station. The locations of the

monitoring tubes will be representative of the hydrological variation on site to prove duration of saturation needed to meet the 87 Manual criteria. These will be included on the as-built drawings.

**Delineation:** Paired plots concentrating along the wetland boundary, for any plots dominated by upland vegetation, and in any high areas will be utilized to indicate the exact location of the wetland boundary. The paired plots will be evaluated using soil probes or pits. This will be done to document that wetland hydrology has been achieved throughout the site. In addition to plot data, these areas will be visually documented with photographs to show a dominance of wetland species. The wetland boundary will then be displayed on a site map to confirm acreage achieving the performance standard.

## 4.3 RESULTS

This provision has been met for at least three years and is no longer being monitored

## 5.0 VEGETATION PERFORMANCE STANDARDS, METHODOLOGY AND RESULTS

### 5.1. Performance Standards

#### Emergent Herbaceous

1. A minimum of 55% of the relative plant cover (including bare soil) is comprised of native species.
2. No more that 15% of the relative plant cover is comprised of non-native invasive species as define below.
3. The wetland's moisture index is less than 3.0.

\*Non-native invasive species to be included: reed canary grass (*Phalaris arundinacea*), purple loosestrife (*Lythrum salicaria*), Himalayan blackberry (*Rubus discolor*), and Japanese knotweed (*Polygonum cuspidatum*), Eurasian water milfoil (*Myriophyllum spicatum*), climbing nightshade (*solanium dulcamara*) (and yellow-flag iris (*Iris pseudacorus*), Anne's lace (*Daucus carota*), Canadian thistle (*Cirsium arvense*), bull thistle (*Cirsium vulgare*), orchard grass (*Dactylis glomerata*) and annual ryegrass (*Lolium multiflorum*) or others as determined by the MBRT.

#### Wetland Prairie

The above performance standard along with the following:

1. At least 10 wetgrass prairie species are present as listed in "Species Composition for Willamette Valley Vegetation Types" by Kathy Pendergrass, August 2003, *supplied by John Marshall (USFWS) author of "Draft Guidance on Vegetation Performance Standard and Monitoring Protocols for Reference Sites and Mitigation Sites"* to enhance Appendix II of this document.
2. Tufted hairgrass (*Deschampsia cespitosa*) is represented by 25% or greater relative plant cover.
3. At least 50% of the relative plant cover (including bare soil) is comprised of native species.
4. No more that 15% of the relative plant cover is comprised of non-native invasive species as define above.
5. The prairie's moisture index is between 2.0 and 3.0.
6. No more than 5% relative plant cover by shrubs or trees.

#### Shrub and Forest - Restoration

By the end of the second growing season, the newly planted shrub and forest component of the wetland will meet or exceed 75% of the species richness of the reference site (excluding non-native invasive species). The plant density in forested and shrub/scrub wetlands will be at least 80% of the reference site, of species that are rated FAC or wetter, excluding FAC- species. This must be achieved by the end of the second growing season following planting and maintained through the end of the monitoring period until trees and shrubs are established and free to grow. There will be no more than 15% aerial coverage of non-native

invasive species\*. These densities will be a combination of planted individuals and natural recruitment.

In addition, the herbaceous layer in the forest and shrub areas, will meet or exceed the performance standards for emergent herbaceous wetlands as stated above.

#### **Forest and scrub/shrub - Enhanced**

Year five performance standard for the enhanced forested wetland will be to maintain the existing wetland forest and scrub/shrub layers while managing for no more than 15% of non-native invasive species\*.

## **5.2 Methodology**

A stratified, systematic plot method was used to conduct vegetation sampling in all areas except the enhanced forest. Vegetation data was collected at each of 103 sample points that had been pre-determined and plotted along 6 transects. The monitoring point location map is included as Attachment 1. Each transect crosses the entire wetland (north to south) and they are located approximately 400 feet apart (north-south). Sampling plots were then located at 200 foot intervals along each transect. Herbaceous data was collected using one meter quadrants on the NW corner of each plot, and tree and shrub data was collected in 30ft diameter around plots. In the enhanced forest areas, four 50 ft square plots were marked, with the percent cover of non-native invasive species determined. The four plots were picked at random, two on each side of the Evergreen Creek. Extensive knowledge of the forested areas by the monitoring crew confirms that these four plots were representative of the entire area.

## **5.3 VEGETATION MONITORING RESULTS**

Vegetation monitoring was conducted by Ray Fiori. On June 3, 2013 all WP, PFO, PSS, and existing forested areas were monitored. The PEMC was monitored on August 5, 2013 to allow for significant plant growth following adequate drawdown. Attachment 2 includes spread sheets with the results of the sampling. The spread sheets include a complete listing of all plant species identified in the monitoring plots. 103 monitoring plots were examined. The data spread sheets include the botanical names, common names, indicator status, origin (native or non-native), moisture index, and percent cover for each species. In 2012 54 plant species were identified within the plots, of these 51 were native. In 2013 63 plant species were identified within the monitoring plots, of these, 59 were native. Several new species were present in the plots this year, but several others that were present in previous years did not show up. Attachment 2 shows all species that have been present in the plots at one point, with a total of 68 native species. The low occurrence and cover of invasive and non-native species on site is a reflection of the continued effectiveness of site preparation, monitoring, establishment, care and spot treatment that the Bank sponsors continue. The increase in diversity is a direct result of allocating substantial resources to far exceed performance measures by continuing to incorporate new species to create diverse habitats as well as eliminating non-natives to encourage natural recruitment.

### **5.3.1 Emergent Vegetation**

The native herbaceous cover (including open water) averaged 96.67% in 2012 and was similar at 97.50% in 2013. There were no non-native invasive species and only 2.50% non-native cover. The amount of open water was the similar as last year at 1.0% and bare ground was 0.6%. The open water/bareground percentages will vary widely depending on

the timing of the monitoring and spring precipitation timing and intensity. As the monitoring date has been delayed for this habitat, it has allowed for full establishment of vegetation.

All three of the performance criteria for **emergent herbaceous** vegetation were met.

Required: At least 55% of the relative plant cover (including bare soil) is comprised of native species -- **Met**, with 97.50% of the relative plant cover including open water as native species.

Required: No more than 15% of the relative plant cover is comprised of non-native invasive species –**Met**, with no non-native invasive species.

Required: The wetland's moisture index is less than 3 –**Met**, with an average weighted moisture index of 1.18.

### 5.3.2 Wetland Prairie

Native herbaceous cover averaged 89.29% (not including bareland) throughout the wet prairie area and of the vegetation itself, 99.09% were native species in 2013. Bareland represented 9.90% cover in 2013, which is mostly organic litter. There was no non-native, invasive cover, while other non-natives represented 0.81%. As work continues to diversify the prairie habitat, this year 36.53% cover was by forbs/sedges/rushes, 53.57% cover was grasses, and 9.90% cover was bare substrate.

The performance criteria for **wetland prairie** were met for 6 of the 6 requirements.

Required: At least 10 wetgrass prairie species are present as listed in "Species Composition for Willamette Valley Vegetation Types" by Kathy Pendergrass. In conversations with John Marshall (USF&W) (Date, 2008) it was agreed upon to include the vernal pool species from this same source in the 10 required species, and this is reflected in the wetland prairie cohort species list as well. **Met**. *Eighteen wetgrass prairie and vernal pool species were identified within the prairie plots.*

Required: Tufted hairgrass (*Deschampsia cespitosa*) is represented by 25% or greater relative plant cover. **Met as discussed** *Tufted hairgrass represented an average cover of 20.71%. As discussed during the annual site visits, this provision needs removed, as its been the biggest factor in reducing diversity. As seen with all Oregon Wetlands LLC banks, the reduction in cover of tufted hairgrass is directly correlated to an increase in diversity (i.e. forbs/sedge/rush cover).*

Required: At least 50% of the relative plant cover (including bare soil) is comprised of native species. **Met**. *Non-natives and non-native invasives combined for 0.60%, bare soil was 9.90%, with native cover at 89.29%.*

Required: No more that 15% of the relative plant cover is comprised of non-native invasive species. **Met**, with no non-native invasive species.

Required: The wetland prairie moisture index is between 2.0 and 3.0. *Met.* *The mean prevalence index 2.12.*

Required: No more than 5% relative plant cover is comprised of shrubs or trees. *Met.* *Plots # 51 and #87 contained planted and volunteer tree and shrub species. Plots # 51 is at the edge of the wet prairie and forested portions so the forested area fell within the 30ft diameter tree/shrub sampling. Plot #87 is in an area where we are working to increase forbs abundance/diversity. Anytime significant bareground and moisture are present when trees are dispersing seeds, they will get established, which often happens in emergent drawdown zones. The area will be mowed periodically to set back the woody plants.*

### **5.3.3 Forest Enhanced**

Required: Year five performance standard. The existing stem density of the native wetland forest and shrub species will be maintained. *Met.* *No native wetland trees or shrubs have been removed intentionally. The stem/plant count has declined since the initial survey. Reconnecting evergreen creek to its historic forested floodplain has greatly increased the frequency of flood events and increased duration of saturation, which has directly taken out some trees as well as increased windfall. These are natural events that will contribute to the long term health of this habitat.*

Required: Year five performance standard. There will be no more than 15% aerial coverage of non-native invasive species. *Met,* *with no non-native invasive species.*

### **5.3.4 Shrub and Forest Restoration**

This area continues to thrive. Planting took place in February of 2007, making this the 7<sup>th</sup> growing season. Initial planting survival was excellent, and through effect weed control, natural recruitment was also significant. Although initial stocking density was low compared to many current projects, in a relatively short period of time many areas have a closed canopy, herbaceous shade tolerant species have expanded, and large patches of shrub dominated areas continue to expand. Although maintenance was high in the early stages of establishment when this was basically a prairie with initial tree/shrub encroachment, it has declined to occasional spot checks in the shrub dominated areas that are accessible with an open canopy.

Species richness for woody plants exceeded the reference site. Eleven species were found in the reference site and 13 were found in the restoration area. Ponderosa pine (*Pinus ponderosa*) exists on site; however, it is not documented in a monitoring plot.

The reference site stem density is 635 trees and shrubs per acre. The planted plots showed an average stem density of 7.7 trees per plot and 14.77 shrubs per plot (Fac or wetter). This equates to a stocking density of 1388 stems per acre. Plot 13 was added to the scrub/shrub sampling in 2009, as the small area (.25 acres) around this plot is being managed for that habitat to increase the habitat complexity on the site. This plot is 100% aerial coverage of Pacific willow, which equates to a stem count of 150 which skews the overall stem count. If this plot is left out of the equation, average shrubs per plot drops to 9.36 which equates to an overall stocking density of 1054 stems per acre (FAC or wetter).

Required: The shrub and forest component will meet or exceed 75% of the species richness of the reference site (excluding non native invasive species). **Met**, with 13 overstory and shrub species identified in the bank, compared to 11 in the reference site.

Required: Plant density will be at least 80% of the reference site with FAC or wetter. **Met**, FAC or wetter woody stem density is 1054 stems per acre, (excluding #13) which exceeds 80% of the reference site which has 635 stems per acre ( $635 \times 80\% = 508$ ).

Required: There will be no more than 15% aerial coverage of non-native invasive species. **Met**, with no non-native invasive species.

The herbaceous layer in the shrub and forest restoration area will meet or exceed the emergent habitat performance standards.

Required: At least 55% of the relative plant cover (including bare soil) is comprised of native species. Met, with an average of 84.81% native herbaceous plant cover. Bare ground represented 15.0% this year, mostly due to canopy closure.

Required: No more that 15% of the relative plant cover is comprised of non-native invasive species. Met, with no non-native invasive species.

Required: The wetland's moisture index is less than 3. Met, with an average weighted moisture index of 2.54.

## 6.0 PHOTO POINT MONITORING

Photos from the photo points are included as Attachment 3; a map of photo point locations is located in Attachment 1. Photos were taken on 06/03/2013

## 7.0 CREDIT SALES SUMMARY

An initial 25.4 credits (30%) were released in February 2007, due to meeting all the requirements for Release #1.

**Release 1 (Fall/Winter 2006):** Up to 30 percent upon submission of the grading as-built, submission of a copy of the financial assurance, Restrictive Covenant, submission of financial assurance and the MBRT conducts a field inspection.

**Release 2 (Spring/Summer 2007):** Up to 20 percent upon demonstration of all performance measures being achieved and delineation of acreage meeting the 1987 Wetland Delineation Manual hydrology (if weather conditions are close to normal).

**Release 3 (Spring/Summer 2008):** Up to 20 percent upon demonstration of all performance measures being.

An additional 29.62 credits (35%) were released in September 2008, due to meeting all the requirements for a total release of 55.02 credits (65%).

*Release 4 (Spring/Summer 2009): Up to 20 percent upon demonstration of all performance measures being.*

An additional 21.05 credits (25%) were released in March 2010, due to meeting all the requirements for a total release of 76.07 credits (90%).

*Release 5 (End of 5<sup>th</sup> year monitoring or 5 years after replanting for those areas replanted): All remaining credits (10%) upon demonstration of all performance standards being achieved. In addition, the long term management plan and funding must be received and approved by the MBRT.*

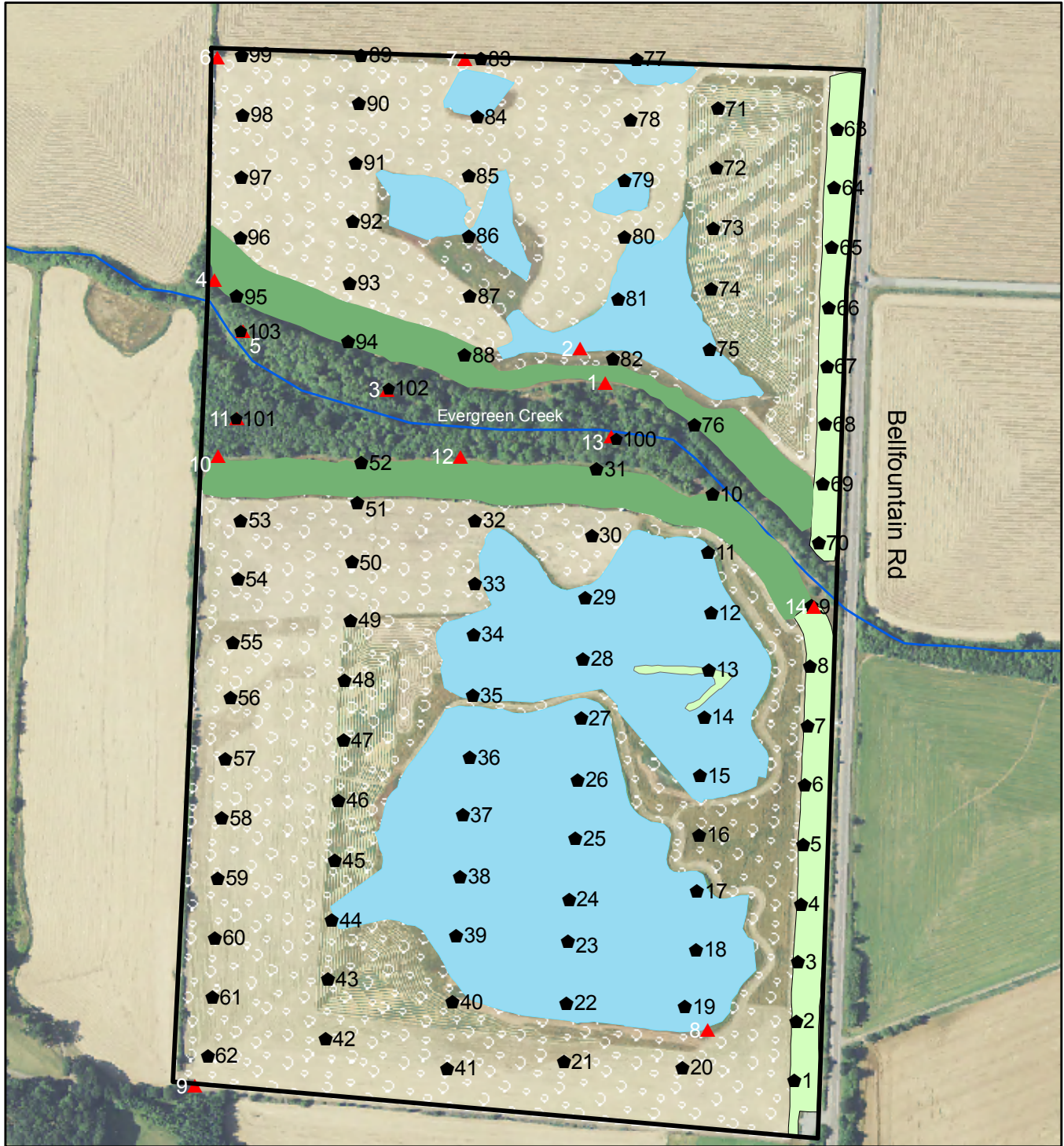
Table 2 below contains all credit sales to date. Should any credit sales occur between submission of this report and 12/31/13, an updated spreadsheet will be sent to both agencies to reflect the calendar year credit sales.

**Table 2 - Evergreen Credit Sales Summary**

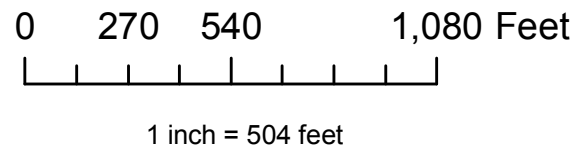
| <i>DATE</i>    | <i>NAME</i>                                                                   | <i>LOCATION</i>                                                             | <i>DSL</i>                    | <i>CORP</i>          | <i>ADDED</i> | <i>SOLD</i> | <i>BALANCE</i> |
|----------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------|----------------------|--------------|-------------|----------------|
| <b>2/27/07</b> | <b>CORPS/DSL<br/>INITIAL<br/>RELEASE-<br/>30%</b>                             |                                                                             |                               | <b>Permit Number</b> | <b>25.4</b>  |             | <b>25.4</b>    |
| 3/20/07        | WSS, LLC                                                                      | Hill Street<br>Subdivision,<br>Albany                                       | 37470                         | 2006-<br>910         |              |             | <b>21.5</b>    |
| 5/7/07         | DR Horton                                                                     | Benton<br>Woods                                                             | 37557-<br>RF                  | 2006-<br>930         |              | 2.5         | <b>19</b>      |
| 9/27/07        | City of<br>Albany                                                             | COA 53rd<br>Ave Park                                                        | 39021-<br>RF                  | 2007-<br>751         |              | 0.14        | <b>18.86</b>   |
| 5/10/07        | Greater<br>Albany<br>Public School                                            | Knox Butte<br>Road School<br>Site                                           | 38849-<br>RF                  | 2007-<br>582         |              | 1.26        | <b>17.6</b>    |
| 12/10/0<br>7   | Weirich<br>Drive<br>Development,<br>LLC                                       | Weirich<br>Drive                                                            | 39237-<br>RF                  |                      |              | 0.1         | <b>17.503</b>  |
| 3/20/08        | ODOT                                                                          | Wren Hill                                                                   | 730                           | 199400<br>929        |              | 1           | <b>16.503</b>  |
| 3/24/08        | Greater<br>Albany<br>Public School                                            | Knox Butte<br>Road School<br>Site                                           | 38849-<br>RF                  | 2007-<br>0582        |              | 0.34        | <b>16.163</b>  |
| 4/1/08         | Greater<br>Albany<br>Public School                                            | Knox Butte<br>Road School<br>Site                                           | 38849-<br>RF                  | 2007-<br>0582        |              | 0.04        | <b>16.123</b>  |
| <b>9/8/08</b>  | <b>CORPS/DSL<br/>2<sup>nd</sup> &amp; 3<sup>rd</sup><br/>RELEASE-<br/>35%</b> |                                                                             |                               |                      | <b>29.62</b> |             | <b>45.743</b>  |
| 4/29/09        | Hyland<br>Business Park<br>LLC                                                | Intersection of<br>31 <sup>st</sup> St and<br>Commercial St,<br>Springfield | 31129-<br>FP &<br>FP-<br>7343 | 1997-<br>00294       |              | 1.9         | <b>43.843</b>  |
| 9/29/09        | Junction City<br>Prison Project                                               | Lane County, ~<br>3.5 miles south<br>of Junction<br>City, Oregon            | 41791-<br>RF                  | 2008-<br>378         |              | 20          | <b>23.843</b>  |
| 11/2/09        | Lane-<br>Wendson No<br>1                                                      | T18, R 6W, sect<br>10                                                       | 43512                         | 2009-<br>580         |              | 0.22        | <b>23.623</b>  |
| <b>3/10/10</b> | <b>CORPS/DSL</b>                                                              |                                                                             |                               |                      | <b>21.05</b> |             | <b>44.673</b>  |

|            | <b>4<sup>th</sup> RELEASE<br/>25%</b> |                                                   |              |                  |  |        |               |
|------------|---------------------------------------|---------------------------------------------------|--------------|------------------|--|--------|---------------|
| 8/17/11    | OSU                                   | SW 15th st<br>& Philomath<br>BLVD                 | 46865-<br>RF | 2011-<br>181     |  | 0.53   | <b>44.143</b> |
| 5/15/12    | Grain Millers                         | ~4 mi South of<br>Junction City,<br>OR            | 47997        | 2009-<br>00036/1 |  | 17.98  | <b>26.163</b> |
| 9/6/12     | American<br>towers, AT&T              | T11S, R3W,<br>Sect. 16 Tax lot<br>1801            | 46538-RF     | NWP-<br>2011-92  |  | 0.09   | <b>26.073</b> |
| 6/10/2013  | Cascade Pacific<br>Pulp               | T14S, R4W,<br>Sect. 06 &<br>T14S, R5W<br>Sect. 01 | 50674-RF     | 2000-486/3       |  | 0.30   | <b>25.773</b> |
| Total Sold |                                       |                                                   |              |                  |  | 50.297 |               |

# Evergreen Mitigation Bank Vegetation and Photo Monitoring Points



|                    |      |
|--------------------|------|
| Evergreen boundary | PEMC |
| Photo points       | PFO  |
| Monitoring Points  | PSS  |
| Wet Prairie        |      |



Attachment 2: Monitoring Data

| Evergreen Wetland Mitigation Bank                                         |                          |                                      |                                                |                |          |             |      |      |      |    |
|---------------------------------------------------------------------------|--------------------------|--------------------------------------|------------------------------------------------|----------------|----------|-------------|------|------|------|----|
| Wet Prairie (WP) Plot Data                                                |                          |                                      |                                                |                |          |             |      |      |      |    |
| June 3, 2013                                                              |                          |                                      |                                                |                |          |             |      |      |      |    |
| Species Observed                                                          |                          |                                      |                                                | Wet Prairie    | Moisture | Ave. Cover  |      |      |      |    |
| Botanical Name                                                            | Common Name              | Status                               | Origin                                         | Cohort Species | Index    | ea. Species | 16   | 20   | 21   |    |
| <b>Oversory Species. - stem count within 30' Diameter (over 18" tall)</b> |                          |                                      |                                                |                |          |             |      |      |      |    |
| <i>Alnus rhombifolia</i>                                                  | White alder              | FAC                                  | native                                         |                | 3        |             |      |      |      |    |
| <i>Fraxinus latifolia</i>                                                 | Oregon ash               | FACW                                 | native                                         |                | 2        |             |      |      |      |    |
| <i>Malus fusca</i>                                                        | Flowering crabapple      | FACW                                 | native                                         |                | 2        |             |      |      |      |    |
| <i>Populus trichocarpa</i>                                                | Black cottonwood         | FAC                                  | native                                         |                | 3        |             |      |      |      |    |
| <i>Rosa nutkana</i>                                                       | Nootka rose              | FAC                                  | native                                         | Yes            | 3        |             |      |      |      |    |
| <i>Salix lasiandra</i>                                                    | Pacific Willow           | FACW                                 | native                                         |                | 2        |             |      |      |      |    |
| <b>Herbaceous Species - percent cover</b>                                 |                          |                                      |                                                |                |          |             |      |      |      |    |
| <i>Achillea millefolium</i>                                               | Yarrow                   | FACU                                 | native                                         |                | 4        | 0.10        |      |      |      |    |
| <i>Alisma triviale</i>                                                    | Northern water plantain  | OBL                                  | native                                         |                | 1        | 0.00        |      |      |      |    |
| <i>Carex unilateralis</i>                                                 | One-sided sedge          | FACW                                 | native                                         | Yes            | 2        | 0.41        |      | 5    |      |    |
| <i>Centaurium erythraea</i>                                               | Centaury                 | FAC                                  | non                                            |                | 3        | 0.41        |      |      |      |    |
| <i>Eleocharis ovata</i>                                                   | Ovate spike rush         | OBL                                  | native                                         | Yes            | 1        | 0.00        |      |      |      |    |
| <i>Eleocharis palustris</i>                                               | Creeping spike rush      | OBL                                  | native                                         |                | 1        | 0.20        |      |      |      |    |
| <i>Epilobium angustifolium</i>                                            | Fireweed                 | FACU                                 | native                                         |                | 4        | 0.51        |      |      |      |    |
| <i>Epilobium ciliatum</i>                                                 | Fringed willoweed        | FACW                                 | native                                         | Yes            | 2        | 0.92        |      |      |      |    |
| <i>Epilobium densiflorum</i>                                              | Dense spike-primrose     | FACW                                 | native                                         | Yes            | 2        | 6.43        |      | 10   |      |    |
| <i>Eriophyllum lanatum</i>                                                | Oregon sunshine          | NOL                                  | native                                         | Yes            | 5        | 2.86        |      |      |      |    |
| <i>Galium trifidum var. pacificum</i>                                     | Small bedstraw           | FACW                                 | native                                         |                | 2        | 0.10        |      |      |      |    |
| <i>Gratiola ebracteata</i>                                                | Bractless hedgehyssop    | OBL                                  | native                                         | Yes            | 1        | 0.00        |      |      |      |    |
| <i>Gnaphalium palustre</i>                                                | Cudweed                  | FAC                                  | native                                         | Yes            | 3        | 0.00        |      |      |      |    |
| <i>Juncus bufonius</i>                                                    | Toad rush                | FACW                                 | native                                         | Yes            | 2        | 0.20        |      |      |      |    |
| <i>Juncus effusus</i>                                                     | Soft rush                | FACW                                 | native                                         |                | 2        | 0.10        | 5    |      |      |    |
| <i>Juncus tenuis</i>                                                      | Slender rush             | FACW                                 | native                                         | Yes            | 2        | 0.10        |      |      |      |    |
| <i>Lupinus bicolor</i>                                                    | Two-colored lupine       | NOL                                  | native                                         |                | 5        | 0.00        |      |      |      |    |
| <i>Lupinus rivularis</i>                                                  | Stream-side lupine       | FAC                                  | native                                         |                | 3        | 1.02        |      |      |      |    |
| <i>Lupinus polyphyllus</i>                                                | Bigleaf lupine           | FAC                                  | native                                         | Yes            | 3        | 0.00        |      |      |      |    |
| <i>Lythrum portula</i>                                                    | Spatulaleaf loosestrife  | OBL                                  | non                                            |                | 1        | 0.00        |      |      |      |    |
| <i>Mimulus guttatus</i>                                                   | Common monkey-flower     | OBL                                  | native                                         | Yes            | 1        | 0.31        |      |      |      |    |
| <i>Plagiobothrys figuratus</i>                                            | Fragrant popcorn flower  | FACW                                 | native                                         | Yes            | 2        | 2.45        |      |      |      |    |
| <i>Plagiobothrys scouleri</i>                                             | Scouler's popcorn flower | FACW                                 | native                                         | Yes            | 2        | 0.10        |      |      |      |    |
| <i>Potentilla gracilis</i>                                                | Northwest cinquefoil     | FAC                                  | native                                         | Yes            | 3        | 0.00        |      |      |      |    |
| <i>Prunella vulgaris</i>                                                  | Common selfheal          | FACU                                 | native                                         | Yes            | 4        | 3.57        |      | 5    |      |    |
| <i>Rorippa curvisiliqua</i>                                               | Western yellowcress      | OBL                                  | native                                         | Yes            | 1        | 1.63        |      |      |      | 5  |
| <i>Sidalcea cusickii</i>                                                  | Cusick's checkermallow   | FACW                                 | native                                         | Yes            | 2        | 14.90       | 25   | 55   |      |    |
| <i>Veronica peregrina var. xalapensis</i>                                 | Hairy purlane speedewell | OBL                                  | native                                         | Yes            | 1        | 0.20        |      |      |      |    |
|                                                                           |                          |                                      |                                                |                |          | 36.53       |      |      |      |    |
| <b>Grass Species - percent cover</b>                                      |                          |                                      |                                                |                |          |             |      |      |      |    |
| <i>Agrostis exarata</i>                                                   | Spike bentgrass          | FACW                                 | native                                         | Yes            | 2        | 9.08        | 60   |      | 20   |    |
| <i>Alopecurus aequalis</i>                                                | Short-awned foxtail      | OBL                                  | native                                         |                | 1        | 0.00        |      |      |      |    |
| <i>Alopecurus geniculatus</i>                                             | Water foxtail            | OBL                                  | native                                         |                | 1        | 1.12        | 10   |      |      |    |
| <i>Beckmania syzigachne</i>                                               | Slough grass             | OBL                                  | native                                         | Yes            | 1        | 4.08        |      |      |      |    |
| <i>Deschampsia cespitosa</i>                                              | Tufted hairgrass         | FACW                                 | native                                         | Yes            | 2        | 20.71       |      |      |      | 35 |
| <i>Deschampsia danthonioides</i>                                          | Annual hairgrass         | FACW-                                | native                                         | Yes            | 2        | 0.00        |      |      |      |    |
| <i>Deschampsia elongata</i>                                               | Slender hairgrass        | FACW                                 | native                                         | Yes            | 2        | 0.41        |      |      |      |    |
| <i>Glyceria occidentalis</i>                                              | Western mannagrass       | OBL                                  | native                                         |                | 1        | 0.00        |      |      |      |    |
| <i>Hordeum brachyantherm</i>                                              | Meadow barley            | FACW                                 | native                                         | Yes            | 2        | 17.76       |      |      |      | 30 |
| <i>Lolium multiflorum</i>                                                 | Annual rye grass         | FACU                                 | non                                            |                | 4        | 0.00        |      |      |      |    |
| <i>Poa trivialis</i>                                                      | Rough-stalk bluegrass    | FAC                                  | non                                            |                | 3        | 0.41        |      |      |      |    |
|                                                                           |                          |                                      |                                                |                |          | 53.57       |      |      |      |    |
| Bareground (Organic Litter: 20, 57, 91-93, 97,99)                         |                          | Mean =                               | 9.90                                           |                |          |             |      | 25   | 10   |    |
| Relative % non-native cover, includes bareground:                         |                          | Mean=                                | 10.71                                          |                |          |             | 0    | 25   | 10   |    |
| Relative % native cover,                                                  |                          | Mean=                                | 89.29                                          |                |          |             | 100  | 75   | 90   |    |
| Relative % non-native invasive canopy cover :                             |                          | Mean=                                | 0.00                                           |                |          |             | 0    | 0    | 0    |    |
| % of Total Vegetation that is Native:                                     |                          | 99.09                                | Percent of Total Vegetation that is Non-native |                | 0.91     |             |      |      |      |    |
| Total # of native Species: 27                                             |                          |                                      |                                                |                |          |             |      |      |      |    |
| Sample plot weighted moisture index (herbaceous layer only)               |                          |                                      |                                                |                |          |             | 1.90 | 2.13 | 1.94 |    |
| Mean Weighted Moisture Index:                                             |                          | 2.12                                 |                                                |                |          |             |      |      |      |    |
| Total Sample Size = 49                                                    |                          | # of Wet Prairie Cohort Species = 18 |                                                |                |          |             |      |      |      |    |

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| 30   | 32   | 33   | 40   | 41   | 42   | 43   | 44   | 45   | 46   | 47   | 48   | 49   | 50   | 51   | 53   | 54   | 55   | 56   | 57   | 58   | 59   | 60   | 61   |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3    |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      | 5    |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      | 10   |      |      |      |      | 5    |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 10   |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 25   |      |      |      |      |      |      |      |      |
|      |      |      |      | 10   |      | 5    |      |      |      | 10   |      | 5    |      |      |      |      |      | 10   |      |      |      | 5    |      |
| 10   | 20   |      |      |      | 65   | 40   |      |      |      | 15   |      | 20   | 10   |      | 10   |      | 15   | 60   |      |      |      | 5    |      |
| 30   | 20   | 20   |      |      |      |      |      |      |      |      |      |      |      |      | 15   | 40   |      |      |      |      |      | 5    | 15   |
|      |      |      |      |      |      |      |      |      |      |      |      |      | 5    |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      | 5    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 25   |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      | 5    |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      | 5    |      |      |      | 15   | 60   | 10   |      |      |      |      |      |      |      |      |      | 15   | 15   |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      | 10   | 5    |      |      |      | 40   | 5    |      |      |      |      | 30   |      |      |      |      |      | 25   | 35   |
|      |      |      |      | 5    | 5    | 10   | 10   |      |      | 15   | 10   | 10   |      |      |      |      |      |      |      |      |      |      | 5    |
| 60   | 40   | 50   |      |      | 10   | 5    | 5    | 30   | 30   | 5    | 10   | 5    | 60   |      | 35   | 20   | 85   | 30   |      |      | 15   | 10   | 15   |
|      |      |      | 5    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 5    |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      | 50   | 55   |      |      | 30   | 35   |      |      |      |      | 10   |      | 15   |      |      |      |      |      | 10   | 10   |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      | 35   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      | 5    |      |      |      |      | 15   |      |      |      |      | 35   |      |      |      |      |      |      |      |      |      |      |
|      |      |      | 10   | 5    |      |      |      |      | 35   | 30   |      |      |      |      |      | 10   |      |      |      | 30   | 55   | 50   | 5    |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      | 10   |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      | 20   | 10   |      |      | 15   |      |      |      | 20   | 10   |      | 10   | 5    | 15   | 50   | 10   |      |      |      | 30   | 20   | 10   |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      | 20   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |      |      | 10   |      | 10   |      |      | 15   | 15   | 15   |      | 5    |      |      | 10   | 10   | 10   |      |      | 40   |      | 20   |      |
| 0    | 0    | 10   | 0    | 10   | 0    | 0    | 35   | 15   | 15   | 0    | 5    | 0    | 0    | 10   | 20   | 10   | 0    | 0    | 40   | 0    | 20   | 0    | 0    |
| 100  | 100  | 90   | 100  | 90   | 100  | 100  | 65   | 85   | 85   | 100  | 95   | 100  | 100  | 90   | 80   | 90   | 100  | 100  | 60   | 100  | 80   | 100  | 100  |
| 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 2.90 | 2.60 | 2.61 | 1.60 | 1.94 | 2.15 | 2.00 | 1.94 | 2.00 | 1.82 | 2.70 | 2.00 | 1.60 | 2.10 | 2.56 | 2.61 | 4.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.70 | 3.10 |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

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| 62   | 71   | 72   | 73   | 74   | 78   | 79   | 80   | 83   | 84   | 85   | 86   | 87   | 89  | 90  | 91  | 92  | 93  | 96  | 97  | 98  | 99  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |
|      |      |      |      |      |      |      |      |      |      |      |      | 6    |     |     |     |     |     |     |     |     |     |
|      |      |      |      |      |      |      |      |      |      |      |      |      | 5   | 5   |     |     |     |     |     |     |     |
|      |      |      |      |      |      |      | 10   |      |      |      |      |      |     |     |     |     |     |     |     |     |     |
|      |      |      |      |      |      |      |      |      |      |      | 15   | 5    |     |     |     |     |     |     |     |     |     |
|      |      |      |      |      |      |      |      |      |      |      |      |      |     | 10  |     |     |     |     |     |     |     |
|      |      |      |      |      |      |      |      |      |      |      | 25   |      |     |     |     |     |     |     |     |     |     |
|      |      |      |      |      |      |      |      |      |      |      |      | 10   |     |     |     |     |     |     |     |     |     |
|      |      |      |      |      |      |      |      |      |      |      |      | 5    |     |     |     |     |     |     |     |     |     |
|      |      |      | 5    |      |      |      |      |      |      |      | 10   | 5    |     |     |     |     |     |     |     |     |     |
| 30   |      |      | 15   |      |      |      |      |      |      |      | 5    |      |     |     |     |     |     |     |     |     |     |
|      |      |      |      |      |      |      |      |      |      |      | 30   | 40   |     |     |     |     |     |     |     |     |     |
|      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |
| 5    |      | 20   |      |      |      |      | 45   |      | 25   |      |      |      |     | 30  |     |     | 10  |     |     | 15  |     |
|      |      |      | 10   |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |
|      |      |      |      | 10   |      | 90   | 10   | 25   |      |      |      |      |     |     | 10  |     |     |     |     |     |     |
|      | 50   | 60   | 20   | 25   | 85   |      | 35   | 20   | 60   | 100  |      | 5    | 55  | 30  | 40  | 30  | 5   |     | 30  | 30  | 70  |
|      |      |      | 10   |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |
| 65   | 30   | 5    | 30   | 65   |      |      |      | 55   |      |      | 15   | 10   | 20  | 30  | 10  | 40  | 60  | 100 | 40  | 40  |     |
|      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |
|      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |
|      | 20   | 15   | 10   |      | 15   | 10   |      |      | 15   |      |      | 5    | 20  | 10  | 40  | 30  | 25  |     | 30  | 15  | 30  |
| 0    | 20   | 15   | 10   | 0    | 15   | 10   | 0    | 0    | 15   | 0    | 0    | 10   | 25  | 10  | 40  | 30  | 25  | 0   | 30  | 15  | 30  |
| 100  | 80   | 85   | 90   | 100  | 85   | 90   | 100  | 100  | 85   | 100  | 100  | 90   | 75  | 90  | 60  | 70  | 75  | 100 | 70  | 85  | 70  |
| 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |
| 2.00 | 2.00 | 2.00 | 2.00 | 1.90 | 2.00 | 1.00 | 1.80 | 1.75 | 2.00 | 2.00 | 2.40 | 2.05 | 2.1 | 2.0 | 1.8 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
|      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |

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| Evergreen Wetland Mitigation Bank                           |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
|-------------------------------------------------------------|----------------------------|--------|--------|--------------------|----------------|------------|----|----|----|----|-----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|--|----|
| Emergent Marsh (PEMC) Plot Data - August 5, 2013            |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Species Observed                                            |                            |        |        | Sample Plot Number |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Botanical Name                                              | Common Name                | Status | Origin | Wet Prairie Cohort | Moisture Index | Ave. Cover | 11 | 12 | 14 | 15 | 17* | 18 | 19  | 22  | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 34 | 35 | 36 | 37 | 38 | 39 | 75  | 77 | 81 |  |    |
|                                                             |                            |        |        | Species            | ea. Species    |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <b>Scrub/Shrub Species -stem count within 30' radius</b>    |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Populus trichocarpa</i>                                  | Black cottonwood           | FACW   | native |                    | 2              |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Salix lasiandra</i>                                      | Pacific willow             | FACW+  | native |                    | 2              |            | 3  |    |    |    |     |    |     |     |    |    | 2  |    |    |    | 2  |    |    |    |    |    |    |     |    |    |  |    |
| <b>Herbaceous Species - percent cover</b>                   |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Alisma gramineum</i>                                     | Narrow leaf water plantain | OBL    | native |                    | 1              | 13.13      | 70 | 30 | 15 | 50 | 40  | 25 |     |     |    | 30 | 25 | 25 |    | 5  |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Alisma triviale</i>                                      | Northern water plantain    | OBL    | native |                    | 1              | 18.96      | 10 | 30 | 25 | 50 | 30  | 40 |     |     | 10 | 50 | 20 | 65 | 75 | 15 | 35 |    |    |    |    |    |    |     |    |    |  |    |
| <i>Bidens cernua</i>                                        | Nodding beggarticks        | FACW+  | native |                    | 2              | 0.00       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Cyperus strigosus</i>                                    | Strawcolored flat sedge    | FACW   | native |                    | 2              | 1.04       |    |    |    |    |     |    |     |     | 25 |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Downingia elegans</i>                                    | Common downingia           | OBL    | native | Yes                | 1              | 0.21       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    | 5  |    |    |     |    |    |  |    |
| <i>Eleocharis ovata</i>                                     | Ovate spike rush           | OBL    | native | Yes                | 1              | 3.13       |    |    |    |    |     |    |     |     |    |    |    |    |    |    | 25 |    | 10 |    | 30 |    | 10 |     |    |    |  |    |
| <i>Eleocharis palustris</i>                                 | Creeping spike rush        | OBL    | native |                    | 1              | 19.17      |    | 30 |    |    |     |    | 100 | 100 |    |    | 20 |    |    | 85 | 20 | 45 |    |    |    |    | 60 |     | 50 |    |  |    |
| <i>Epilobium ciliatum</i>                                   | Fringed willoweed          | FACW   | native | Yes                | 2              | 0.00       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Gnaphalium palustre</i>                                  | Cudweed                    | FAC+   | native | Yes                | 3              | 3.96       |    |    |    |    |     |    |     |     | 20 |    |    |    |    |    |    |    | 50 | 20 | 5  |    |    |     |    |    |  |    |
| <i>Juncus bufonius</i>                                      | Toad rush                  | FACW   | native | Yes                | 2              | 0.00       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Ludwigia palustris</i>                                   | Marsh seedbox              | OBL    | native |                    | 1              | 2.08       |    | 5  | 25 |    |     |    |     |     |    | 20 |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Lythrum portula</i>                                      | Spatulateleaf loosestrife  | OBL    | non    |                    | 1              | 0.63       |    |    |    |    | 5   |    |     |     |    | 10 |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Polygonum hydropiperoides</i>                            | Water smartweed            | OBL    | native |                    | 1              | 1.04       |    |    | 5  |    |     |    |     |     |    |    | 10 |    |    |    |    |    | 10 |    |    |    |    |     |    |    |  |    |
| <i>Rorippa curvisiliqua</i>                                 | Western yellowcress        | OBL    | native | Yes                | 1              | 0.00       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Sagittaria latifolia</i>                                 | Wapato                     | OBL    | native |                    | 1              | 0.00       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Sparganium emersum</i>                                   | Simple-stem bur-reed       | OBL    | native |                    | 1              | 2.50       | 20 | 20 |    |    |     |    |     |     |    | 20 |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Typha latifolia</i>                                      | Common cattail             | OBL    | native |                    | 1              | 1.88       |    |    |    |    |     |    | 35  |     |    |    |    |    |    |    |    | 10 |    |    |    |    |    |     |    |    |  |    |
| <b>Grass Species - percent cover</b>                        |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Agrostis exarata</i>                                     | Spike bentgrass            | FACW   | native | Yes                | 2              | 5.00       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    | 80 |    |    | 30 | 10 |    |     |    |    |  |    |
| <i>Alopecurus aequalis</i>                                  | Short-awned foxtail        | OBL    | native |                    | 1              | 0.63       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    | 15 |    |    |     |    |    |  |    |
| <i>Alopecurus geniculatus</i>                               | Water foxtail              | OBL    | native |                    | 1              | 9.58       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    | 20 | 20 |    | 70 | 20 |    | 100 |    |    |  |    |
| <i>Beckmania syzigachne</i>                                 | Slough grass               | OBL    | native | Yes                | 1              | 4.58       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    | 10 |    | 70 | 30  |    |    |  |    |
| <i>Deschampsia cespitosa</i>                                | Tufted hairgrass           | FACW   | native | Yes                | 2              | 0.00       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Echinochloa crus-galli</i>                               | Large barnyard-grass       | FAC    | non    |                    | 3              | 0.83       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    | 15 |    | 5  |    |     |    |    |  |    |
| <i>Glyceria borealis</i>                                    | Floating manna grass       | OBL    | native |                    | 1              | 0.63       |    | 15 |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Glyceria occidentalis</i>                                | Western mannagrass         | OBL    | native |                    | 1              | 0.00       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  | 50 |
| <i>Hordeum brachyantherm</i>                                | Meadow barley              | FACW   | native | Yes                | 2              | 0.00       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| <i>Leersia oryzoides</i>                                    | Rice cut-grass             | OBL    | native |                    | 1              | 4.58       |    |    |    |    |     |    |     |     |    |    | 60 |    |    |    | 40 |    |    |    |    |    | 10 |     |    |    |  |    |
| <i>Panicum capillare</i>                                    | Common witchgrass          | FACU   | native | Yes                | 4              | 0.63       |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Bareground (*-due to recent inundation or age) Mean = 1.0   |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Open Water Mean = 0.6                                       |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Relative % native cover includes bareground: Mean = 97.50   |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Relative % non-native cover: Mean = 2.50                    |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Relative non-native invasive cover: Mean = 0.00             |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Percent of Total Vegetation that is Native: Mean = 98.45    |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Percent of Total Vegetation that is Non-native: Mean = 1.55 |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Sample plot weighted moisture index (herbaceous layer only) |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Mean Weighted Moisture Index 1.18                           |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Total # of Native Species 20                                |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |
| Total Sample points 24                                      |                            |        |        |                    |                |            |    |    |    |    |     |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |  |    |

Attachment 2: Monitoring Data

| Evergreen Wetland Mitigation Bank                                         |                           |            |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------------------------------------------------|---------------------------|------------|--------|--------------------|----------------|-----------|-------|------|------|------|------|------|------|------|------|------|------|------|
| Forested (PFO) Plot Data                                                  |                           |            |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| June 3, 2013                                                              |                           |            |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| Species Observed                                                          |                           | Status     | Origin | Wet Prairie Cohort | Moisture Index | Ave Cover | 1     | 2*   | 3    | 4    | 5    | 6    | 7    | 8    | 9*   | 10   | 13*  | 31   |
| Botanical Name                                                            | Common Name               |            |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| <b>Oversory Species. - stem count within 30' Diameter (over 18" tall)</b> |                           |            |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Alnus rhombifolia</i>                                                  | White alder               | FAC        | native |                    | 3              |           | 1     |      |      |      |      |      |      |      |      |      |      | 1    |
| <i>Crataegus douglasii</i>                                                | Douglas Hawthorn          | FAC        | native |                    | 3              |           |       |      |      |      |      | 1    |      |      |      |      |      | 1    |
| <i>Fraxinus latifolia</i>                                                 | Oregon ash                | FACW       | native |                    | 2              |           | 1     |      | 1    | 1    | 2    |      |      |      | 8    | 9    |      | 30   |
| <i>Malus fusca</i>                                                        | Flowering crabapple       | FACW       | native |                    | 2              |           | 3     | 1    |      |      |      |      |      |      |      |      |      |      |
| <i>Populus trichocarpa</i>                                                | Black cotton wood         | FACW       | native |                    | 2              |           |       |      | 1    |      | 4    |      | 1    |      |      |      |      |      |
| Total # of Plots: 26                                                      |                           |            |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| Total Stems per plot                                                      |                           | Mean= 7.7  |        |                    |                |           | 3     | 3    | 0    | 2    | 1    | 6    | 1    | 1    | 8    | 9    | 0    | 32   |
| Average Stems per Plot (FAC or Wetter)                                    |                           | 7.7        |        |                    |                |           | 3     | 3    | 0    | 2    | 1    | 6    | 1    | 1    | 8    | 9    | 0    | 32   |
| Mean trees/Acre                                                           |                           | 477        |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| <b>Herbaceous Species - percent cover</b>                                 |                           |            |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Amelanchier alnifolia</i>                                              | Service berry             | FACU       | native |                    | 4              |           |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Cornus sericea</i>                                                     | Red osier dogwood         | FACW+      | native |                    | 2              |           | 2     | 1    |      |      |      |      |      | 1    |      |      |      |      |
| <i>Oemleria cerasiformis</i>                                              | Indian plum               | FACU       | native |                    | 4              |           |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Physocarpus capiaus</i>                                                | Pacific ninebark          | FACW-      | native |                    | 2              |           | 1     |      |      |      |      |      |      |      |      |      |      |      |
| <i>Rosa nukana</i>                                                        | Nooka rose                | FAC        | native | Yes                | 3              |           | 1     | 5    | 2    | 3    | 2    |      | 1    | 2    | 1    |      |      | 1    |
| <i>Rosa pisocarpa</i>                                                     | Clustered rose            | FAC        | native |                    | 3              |           |       | 1    | 3    | 3    | 1    |      | 3    | 3    |      |      |      |      |
| <i>Salix lasiandra</i>                                                    | Pacific willow            | FACW+      | native |                    | 2              |           |       | 4    | 3    | 9    | 3    | 15   | 3    | 11   | 3    |      | 150  | 10   |
| <i>Spiraea douglasii</i>                                                  | Douglas spiraea           | FAC        | native |                    | 3              |           | 3     | 7    | 4    |      | 12   |      | 7    |      |      |      |      |      |
| <i>Symphoricarpos albus</i>                                               | Snowberry                 | FACU       | native |                    | 4              |           | 5     |      |      |      |      |      |      |      |      |      |      |      |
| Total # of Plots: 26                                                      |                           |            |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| Total Stems per plot                                                      |                           | Mean= 15.3 |        |                    |                |           | 12    | 18   | 12   | 15   | 18   | 15   | 14   | 17   | 4    | 0    | 150  | 11   |
| Average Stems per Plot (FAC or Wetter)                                    |                           | 14.77      |        |                    |                |           | 7     | 18   | 12   | 15   | 18   | 15   | 14   | 17   | 4    | 0    | 150  | 11   |
| Mean Shrubs/Acre (FAC or Wetter)                                          |                           | 911        |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| Average Stems per Plot (FAC or Wetter) W/O #13                            |                           | 9.36       |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| Mean Shrubs/Acre (FAC or Wetter) W/O #13                                  |                           | 577        |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| <b>Grass Species - percent cover</b>                                      |                           |            |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Achillea millefolium</i>                                               | Yarrow                    | FACU       | native |                    | 4              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Alisma triviale</i>                                                    | Northern water plantain   | OBL        | native |                    | 1              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Camassia quamash</i>                                                   | Camas                     | FACW       | native | Yes                | 2              | 0.58      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Carex obnupta</i>                                                      | Slough sedge              | OBL        | native |                    | 1              | 0.19      |       |      |      |      |      |      |      |      | 5    |      |      |      |
| <i>Epilobium ciliatum</i>                                                 | Fringed willoweed         | FACW       | native | Yes                | 2              | 3.08      |       | 5    | 20   |      | 5    | 10   | 5    | 5    |      |      |      |      |
| <i>Epilobium densiflorum</i>                                              | Dense spike-primrose      | FACW       | native | Yes                | 2              | 0.19      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Eriophyllum lanatum</i>                                                | Oregon sunshine           | NOL        | native | Yes                | 5              | 14.62     | 95    |      |      |      |      |      |      |      |      |      |      | 5    |
| <i>Geum macrophyllum</i>                                                  | Large leaf avens          | FACW-      | native |                    | 2              | 2.31      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Gnaphalium palusre</i>                                                 | Cudweed                   | FAC+       | native | Yes                | 3              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Gratiola ebracteata</i>                                                | Bractless hedgehyssop     | OBL        | native | Yes                | 1              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Juncus bufonius</i>                                                    | Toad rush                 | FACW       | native | Yes                | 2              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Juncus effusus</i>                                                     | Soft rush                 | FACW       | native |                    | 2              | 1.54      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Juncus tenuis</i>                                                      | Slender rush              | FACW       | native | Yes                | 2              | 1.35      |       |      |      |      |      |      |      |      |      | 10   |      |      |
| <i>Lupinus bicolor</i>                                                    | two-colored lupine        | NOL        | native |                    | 5              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Lupinus polyphyllus</i>                                                | Bigleaf lupine            | FAC        | native | Yes                | 3              | 0.38      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Lythrum portula</i>                                                    | Spatulateleaf loosestrife | OBL        | non    |                    | 1              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Kickxia elatine</i>                                                    | Sharp point flevellin     | NOL        | non    |                    | 5              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Madia saiva</i>                                                        | Coast tarweed             | NOL        | native |                    | 5              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Poenilla gracilis</i>                                                  | Northwest cinquefoil      | FAC        | native | Yes                | 3              | 6.92      |       |      |      |      |      |      |      |      |      |      |      | 85   |
| <i>Polygonum amphibium</i>                                                | Water smartweed           | OBL        | native |                    | 1              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Rorippa curvisiliqua</i>                                               | Western yellowcress       | OBL        | native | Yes                | 1              | 1.15      |       |      | 20   |      |      |      |      |      |      |      |      |      |
| <i>Sidalcea campestris</i>                                                | Meadow checkermallow      | FACU       | native |                    | 4              | 2.88      |       |      |      |      |      |      |      |      |      |      |      | 5    |
| <i>Sidalcea cusickii</i>                                                  | Cusick's checkermallow    | FACW       | native | Yes                | 2              | 5.00      |       |      |      | 20   |      |      |      |      |      |      |      |      |
| <i>Veronica peregrina var. xalapensis</i>                                 | Hairy purlane speedew     | OBL        | native | Yes                | 1              | 0.19      |       |      |      |      |      |      |      |      |      |      |      |      |
| <b>Grass Species - percent cover</b>                                      |                           |            |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Agrosis exarax</i>                                                     | Spike bentgrass           | FACW       | native | Yes                | 2              | 15.38     |       | 35   | 10   | 70   | 30   |      | 25   | 60   | 5    | 10   |      |      |
| <i>Alopecurus geniculatus</i>                                             | Water foxtail             | OBL        | native |                    | 1              | 3.46      |       |      |      |      |      | 90   |      |      |      |      |      |      |
| <i>Beckmania syzigachne</i>                                               | Slough grass              | OBL        | native | Yes                | 1              | 1.92      |       |      |      |      | 50   |      |      |      |      |      |      |      |
| <i>Deschampsia cespitosa</i>                                              | tufted hairgrass          | FACW       | native | Yes                | 2              | 7.88      |       | 10   | 40   |      |      |      |      |      |      | 25   |      |      |
| <i>Deschampsia danthonioides</i>                                          | Annual hairgrass          | FACW-      | native | Yes                | 2              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Deschampsia elongata</i>                                               | Slender hairgrass         | FACW       | native | Yes                | 2              | 3.46      |       |      |      | 10   |      |      | 20   | 20   |      |      |      | 5    |
| <i>Elymus glaucus</i>                                                     | Blue wildrye              | FACU       | native |                    | 4              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Glyceria occidentalis</i>                                              | Western mannagrass        | OBL        | native |                    | 1              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| <i>Hordeum brachyantherm</i>                                              | Meadow barley             | FACW       | native | Yes                | 2              | 12.31     | 5     |      | 10   |      | 15   |      | 50   | 10   | 10   | 55   |      |      |
| <i>Poa trivialis</i>                                                      | Rough-stalk bluegrass     | FAC        | non    |                    | 3              | 0.19      |       |      |      |      |      |      |      | 5    |      |      |      |      |
| <i>Vulpia myuros</i>                                                      | Rattail fescue            | FAC        | non    |                    | 3              | 0.00      |       |      |      |      |      |      |      |      |      |      |      |      |
| Bareground (*-due to canopy closure, ** Organic Litter)                   |                           |            |        |                    |                | Mean=     | 15.00 |      | 50   |      |      |      |      |      | 80   |      | 100  |      |
| Relative % native cover, excluding bareground (herbaceous layer only):    |                           |            |        |                    |                | Mean=     | 84.81 | 100  | 50   | 100  | 100  | 100  | 100  | 95   | 20   | 100  | 0    | 100  |
| Relative % non-native invasive cover (herbaceous layer only):             |                           |            |        |                    |                | Mean=     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sample plot weighted moisture index (herbaceous layer only)               |                           |            |        |                    |                |           |       | 4.85 | 2.00 | 1.80 | 2.00 | 1.50 | 1.10 | 2.00 | 2.05 | 1.75 | 2.00 | 3.10 |
| Mean Weighted Moisture Index                                              |                           |            |        |                    |                |           | 2.54  |      |      |      |      |      |      |      |      |      |      |      |
| # of Wet Prairie Cohort Species = 15                                      |                           |            |        |                    |                |           |       |      |      |      |      |      |      |      |      |      |      |      |

## Attachment 2: Monitoring Data

| 52*  | 63   | 64   | 65   | 66   | 67   | 68   | 69** | 70   | 76   | 82* | 88   | 94   | 95** |
|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |
| 1    |      |      |      | 1    |      |      |      |      | 2    |     |      |      |      |
| 8    |      |      |      |      |      |      | 1    | 11   | 23   | 8   | 12   | 18   | 30   |
| 4    | 3    | 2    |      | 1    | 2    |      |      | 1    |      |     | 1    |      |      |
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |
| 13   | 3    | 2    | 0    | 2    | 2    | 0    | 1    | 12   | 25   | 11  | 12   | 21   | 31   |
| 13   | 3    | 2    | 0    | 2    | 2    | 0    | 1    | 12   | 25   | 11  | 12   | 21   | 31   |
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |
|      |      |      |      |      | 1    |      | 2    |      |      |     |      |      |      |
|      |      |      |      |      |      |      | 1    |      | 2    |     |      |      |      |
|      | 1    |      |      |      | 2    | 7    | 2    | 1    |      |     |      |      |      |
|      |      | 1    | 1    | 3    |      |      | 1    | 2    |      |     |      | 1    |      |
| 1    |      |      | 2    |      | 2    |      | 2    | 3    |      |     |      |      | 1    |
| 13   |      |      | 3    |      |      |      |      |      |      |     |      | 2    | 12   |
|      |      | 3    | 3    | 9    | 4    | 3    | 14   | 1    |      |     |      |      |      |
|      | 3    |      |      | 1    | 2    |      |      |      |      |     |      |      |      |
| 14   | 4    | 4    | 9    | 13   | 11   | 10   | 22   | 7    | 2    | 0   | 0    | 3    | 13   |
| 14   | 1    | 4    | 9    | 12   | 8    | 10   | 20   | 7    | 2    | 0   | 0    | 3    | 13   |
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |
|      |      |      |      |      |      |      |      |      |      | 10  |      |      |      |
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |
|      |      |      |      |      |      |      |      | 15   |      |     |      |      |      |
|      |      |      |      |      |      |      |      |      | 15   |     | 5    | 10   |      |
|      |      |      |      |      |      |      |      |      | 5    |     |      |      |      |
|      | 50   |      |      | 5    | 85   | 100  | 40   |      |      |     |      |      |      |
|      |      |      |      |      |      |      |      | 10   |      |     |      | 30   | 20   |
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |
| 30   |      |      |      |      |      |      |      |      |      |     |      |      | 10   |
|      |      |      |      |      |      |      |      |      | 10   |     |      |      | 15   |
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |
|      |      |      |      |      |      |      |      |      | 10   |     |      |      |      |
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |
|      | 20   | 30   |      | 10   |      |      | 20   |      |      |     |      |      | 15   |
|      |      |      |      |      |      |      |      |      |      | 10  |      |      |      |
| 25   |      | 30   |      |      |      |      |      | 15   |      |     |      |      |      |
|      |      |      | 60   |      |      |      |      | 20   |      |     |      |      | 30   |
|      |      |      |      |      |      |      |      |      |      |     | 5    |      |      |
|      |      |      | 10   | 70   | 5    |      |      | 10   |      |     | 60   |      |      |
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |
| 15   | 20   | 20   | 20   | 15   |      |      |      |      | 20   | 10  |      | 10   |      |
|      |      |      |      |      | 5    |      |      | 10   |      |     | 10   | 10   |      |
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |
|      | 10   | 20   | 10   |      | 5    |      |      | 20   | 40   |     | 20   | 40   |      |
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |
| 30   |      |      |      |      |      |      | 40   |      |      | 80  |      |      | 10   |
| 70   | 100  | 100  | 100  | 100  | 100  | 100  | 60   | 100  | 100  | 20  | 100  | 100  | 90   |
| 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0    | 0    | 0    |
| 2.71 | 3.70 | 2.90 | 2.00 | 2.25 | 4.55 | 5.00 | 4.33 | 2.30 | 2.10 | 1.5 | 1.95 | 2.00 | 2.17 |
|      |      |      |      |      |      |      |      |      |      |     |      |      |      |

Attachment 2: Monitoring Data

| <b>Evergreen Mitigation Bank</b>                                                     |                             |               |               |                 |                 |                 |                 |                 |
|--------------------------------------------------------------------------------------|-----------------------------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Existing and Enhanced Shrub/Forest (PFOE) Sample Plot Monitoring Results 2013</b> |                             |               |               |                 |                 |                 |                 |                 |
|                                                                                      |                             |               |               | <b>Moisture</b> |                 |                 |                 |                 |
| <b>Common Name</b>                                                                   | <b>Botanical Name</b>       | <b>Status</b> | <b>Origin</b> | <b>Index</b>    | <b>100 - SE</b> | <b>101 - SW</b> | <b>102 - NE</b> | <b>103 - NW</b> |
| <b>Overstory Species. - stem count within 50' square</b>                             |                             |               |               |                 |                 |                 |                 |                 |
| Douglas Hawthorne                                                                    | <i>Crataegus douglassi</i>  | FAC           | native        | 3               | 10              | 2               | 16              | 7               |
| Oregon ash                                                                           | <i>Fraxinus latifolia</i>   | FACW          | native        | 2               | 23              | 29              | 6               | 25              |
| <b>Scrub/Shrub Species -stem count within 50' square</b>                             |                             |               |               |                 |                 |                 |                 |                 |
| Cascara                                                                              | <i>Rhamnus purshiana</i>    | FAC-          | native        | 3               | 10              | 1               | 3               | 5               |
| Himalayan blackberry                                                                 | <i>Rubis discolor</i>       | FACU          | non           | 4               |                 |                 |                 |                 |
| Nootka rose                                                                          | <i>Rosa nutkana</i>         | FAC           | native        | 3               | 4               | 1               |                 | 1               |
| Snowberry                                                                            | <i>Symphoricarpos albus</i> | FACU          | native        | 4               | 10              | 5               | 10              | 40              |
| Douglas spiraea                                                                      | <i>Spirea douglasii</i>     | FAC           | native        | 3               |                 |                 | 4               |                 |
| Trailing blackberry                                                                  | <i>Rubus ursinus</i>        | NL            | native        |                 | 24              | 10              | 30              | 40              |

\* Mowing, non-native species control, flooding, and wind damage eliminated some Ash trees, while allowing the shrub layer to prosper.

## Evergreen Mitigation Bank 2013 Photo Monitoring

Photo Point 1 North



Photo Point 1 East



Photo Point 1 South



Photo Point 1 West



Photo Point 2 North



Photo Point 2 East



Photo Point 2 South



Photo Point 2 West



Photo Point 3 North



Photo Point 3 East



Photo Point 3 South



Photo Point 3 West



Attachment 3: Monitoring Photos

Photo Point 4 North



Photo Point 4 East



Photo Point 4 South



Photo Point 4 West



Photo Point 5 North



Photo Point 5 East



Photo Point 5 South



Photo Point 5 West



Photo Point 6 North



Photo Point 6 East



Photo Point 6 South



Photo Point 6 West



Attachment 3: Monitoring Photos

Photo Point 7 East



Photo Point 7 South



Photo Point 7 West



Photo Point 8 North



Photo Point 8 East



Photo Point 8 South



Photo Point 8 west



Photo Point 9 North



Photo Point 9 East



Photo Point 9 Northeast



Attachment 3: Monitoring Photos

Photo Point 10 North



Photo Point 10 East



Photo Point 10 South



Photo Point 10 West



Photo Point 11 North



Photo Point 11 East



Photo Point 11 South



Photo Point 11 West



Photo Point 12 North

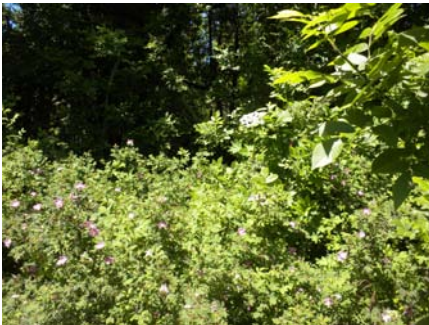


Photo Point 12 East



Photo Point 12 South



Photo Point 12 West



Attachment 3: Monitoring Photos

Photo Point 13 North



Photo Point 13 East



Photo Point 13 South



Photo Point 13 West



Photo Point 14 North



Photo Point 14 East



Photo Point 14 South



Photo Point 14 West

