Pittsfield Municipal Airport
Runway 8/26 Safety Area Project
Wetland Mitigation Sites B, E and I
2013-2015 Monitoring Report

USACE Permit NAE-2007-02868
MaDEP Variance 263-901

Pittsfield Municipal Airport
Pittsfield, Massachusetts

Pursuant to the U.S. Army Corps of Engineers, New England District (CENAE-2007-02868)
Mass Dept. of Env. Protection
Variance Number 263-901



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Pittsfield Airport Commission
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1.0 Introduction

Corps Permit No.:	CENAE-2007-02868 (issued August 26, 2010)
DEP File No.:	Variance 263-901 (MWPA Variance issued October 9, 2009)
Mitigation Site Name:	Pittsfield Municipal Airport Wetland Mitigation Sites B, E and I Mitigation Site B = 1.06 Acres Mitigation Site E = 2.09 Acres Mitigation Site I = 2.05 Acres
Monitoring Report ID:	2 of 5 – Second Post-Construction Report
Permittee:	Pittsfield Municipal Airport Commission 832 Tamarack Road Pittsfield, MA 01201 Attention: Mr. Robert Snuck (Airport Manager) Telephone: 413-448-9790
Party Responsible for Monitoring:	Stantec Consulting Services Inc. 136 West Street, Suite 203 Northampton, MA 01060-3711 Telephone: 413-584-4776
Inspection Dates:	Spring and Fall – 2013, 2014 and 2015

1.1 PROJECT SUMMARY

The Pittsfield Airport Improvements Project was a comprehensive development and maintenance plan to address airport safety and capacity deficiencies identified in the 2001 Pittsfield Municipal Airport Master Plan Update (AMPU). The AMPU project design received significant modification during the regulatory process, in order to reduce impacts to several categories of protected environmental resources, including wetlands and rare species. Substantial project changes resulted from the review provided by the Massachusetts Department of Environmental Protection (DEP) through the MA Wetlands Protection Act variance process. The following is a summary of the airport improvements constructed at Pittsfield.

1.1.1 Safety Requirements

- Constructed the required standard runway safety areas (RSAs) of 1000' x 400' along the sides and at the ends of Runway 08-26 according to the FAA design criteria for the existing airport reference code for PSF as determined during the AMPU process
- Removed vegetative obstructions to navigable airspace as directed by FAA Regulations Part 77 for the airspace surfaces as modified by the safety and capacity projects

1.1.2 Safety and Capacity Requirements

- Extended Runway 08-26 to fully accommodate the existing aircraft fleet at PSF (originally determined to be a total required length of 6,300' in the AMPU, but reduced to 5,790' to minimize environmental impacts)
- Relocated South Mountain Road around the revised airport environment to maintain vehicle traffic flow between Route 7 and Barker Road

Runway 8-26 Safety Areas (RSAs) – The RSA dimensions for Runway 8-26 as required by current FAA regulations include a length of 1,000' beyond the runway end, and a width of 400' centered on the runway centerline. At the RW 8 end, the grading for the side runway safety area south of the runway end was eliminated by obtaining a modification to standard from the FAA. Additionally, the length of the safety area at the RW 08 end was decreased to reduce impacts to the Wampenum Brook system and to allow for South Mountain Road to be relocated around the end of the safety area slope without impacting additional wetlands. The FAA modifications to the RSA standard significantly reduced impacts to wetlands.

To accommodate the modified Runway 8 end RSA, 652' of the existing runway pavement was removed to provide the required RSA length without impacting Barker Road or the associated residences. This removed runway pavement was added to the Runway 26 end to maintain a minimum of 5,000' of usable runway at PSF. The Runway 26 end RSA was then added to the end of the pavement relocation resulting in the full scope of wetland impacts addressed in the permitting process.

To complete the safety areas and pavement relocation, it was necessary to extend the existing Mud Pond Brook culvert at the Runway 8 end, and to construct a new culvert for Wild Acres Brook at the Runway 26 end. The Runway 8 end culvert was extended 45 feet northward from the end of the existing culvert to provide for the full RSA width; the existing culvert was not replaced. At the Runway 26 end, a 7' x 7' culvert was installed along 650' of Wild Acres Brook to provide for the full safety area width.

Runway 8-26 Extension – The primary runway at PSF was extended 790' to a total length of 5,790' to improve the operational capability of the airport for the existing aircraft fleet; the runway pavement remained 100' wide. The 790' extension allowed for the passage of the relocated South Mountain Road

around the end of the new runway environment without resulting in additional impacts to Federal wetlands.

Runway 26 End Taxiway – The originally proposed project included a parallel taxiway to the relocated Runway 26 end. The taxiway required additional impacts to Federal wetlands associated with Wild Acres Brook and other wetlands. The full parallel taxiway was eliminated, and a taxiway stub added to the new runway end.

Relocation of South Mountain Road - The extension of the runway environment in an easterly direction to provide for the safety areas and runway resulted in the crossing of South Mountain Road; a connector roadway between Route 7 and Barker Road that serves residential areas. An original design called for the closure of the road, but public comment during the National Environmental Policy Act process resulted in the diversion of the road in lieu of closure. The road was diverted around the project, reconnecting to the existing road pavement to the west of the project. The road relocation length is 2,265' and the road pavement is 24' wide.

Vegetative Obstruction Removal – The removal and marking of vegetative obstructions to navigable airspace was completed at PSF. One hundred eighty acres of vegetation was managed through removal or lighting (8 pole-mounted obstruction lights were installed along both sides of Runway 26 as a part of the project).

1.1.3 Mitigation

Three wetland replication areas were proposed as partial compensation for impacts to State and Federal wetlands; additional mitigation measures were included that are not detailed in this report. The three wetland replication areas addressed in this monitoring report include the following:

Wetland Replication Area B

1.06 Acres	Total Area
1.06 Acres	(0.28 Ac) Forested Wetland (PFO1) and (0.78 Ac) Scrub-Shrub Wetland (PSS1), HGM Classification RIVERINE
3,708 Cubic Yards	Created Floodplain Volume
Watershed	Wild Acres Brook Hydrologic Unit - 01100005 (Housatonic)
Lat/Long Location	Y: 42.432007 X: -73.283847

Wetland Replication Area E

2.09 Acres	Total Area
2.09 Acres	(0.72 Ac) Forested Wetland (PFO1) and (1.37 Ac) Scrub-shrub Wetland (PSS1), HGM Classification DEPRESSIONAL
12,683 Cubic Yards	Created Floodplain Volume
Watershed	Wampenum Brook Hydrologic Unit - 01100005 (Housatonic)
Lat/Long Location	Y: 42.435143 X: -73.276631

Wetland Replication Area I

2.05 Acres	Total	
2.05 Acres	(0.36 Ac) Forested Wetland (PFO1) and (1.69 Ac) Scrub-shrub Wetland (PSS1), HGM Classification DEPRESSIONAL	
Watershed	Mud Pond Brook	Hydrologic Unit - 01100005 (Housatonic)
Lat/Long Location	Y: 42.421713	X: -73.302805

1.2 LOCATION OF AND DIRECTIONS TO MITIGATION SITE

The three wetland replication sites B, E and I are located on the property of the Pittsfield Municipal Airport in Pittsfield, Massachusetts. See USGS Location Map (Figure 1, Site Plan) for the site locations relative to the airport property boundaries. Access to the sites is available from local roads and does not require entrance to the secure areas of the airport. Site B is located immediately off the north side of South Mountain Road; a gravel pull-off is located immediately adjacent to Area B. Area E requires parking on South Mountain Road and foot access down the former construction access north and east of the paved road. Replication Area I is located at the southeast corner of Barker and Tamarack roads; a gravel pull-off is available for vehicle parking adjacent to the site.

1.3 START AND COMPLETION DATES FOR MITIGATION

The "work start notification" was submitted to the agencies on October 4, 2010 by the airport and the Phase 1 site contractor (JH Maxymillian; Pittsfield, MA). Grading of the three wetland replication sites was completed in 2011. Replication Area B was substantially graded (with topsoil placement) by the end of January 2011, while Replication Areas E and I were substantially completed in December 2011. Wetland shrub transplants occurred at all three sites immediately after grading, but final nursery stock installation and the live stakes/stickers were not completed until the middle of the 2012 growing season. Herbivore fence installation occurred immediately after the completion of the grading of each site in 2011. Photographic documentation of the construction sequence at each site (with dates) can be found in **Appendix C** of this report. The construction photos provide views of pre-construction, grading, topsoil placement, woody debris installation and final seeding for each of the three sites.

Late-2012 represented the first available date for monitoring, and was limited to the documentation of native woody stem counts in the established monitoring plots. Herbaceous cover was minimal at that time and was not documented. The first full growing season for each of the three wetland replication areas where full spring/fall monitoring of the established plots was completed occurred in 2013. The monitoring plot locations are shown on Figures 2, 3 and 4 in Section 4 of this report. Monitoring plot vegetation data forms are provided in **Appendix A** while photographs of each plot are provided in **Appendix B**; data and photos are provided for each plot from 2013 through 2015. The photographs document the progress of the growth at each site. General site photographs, taken from the same location during each monitoring year, are included with the monitoring plot photos. The general site photos show the progress of vegetation growth in each area and documents the stability of the side slopes.

1.4 CORRECTIVE MAINTENANCE ACTIVITIES

Various improvement actions have been completed since the construction of Replication Areas B, E and I to improve the functioning of the sites and to assist with compliance with the environmental permits. Significant efforts are listed below.

1.4.1 Invasive Species Control

Invasive plant species management has been actively implemented at all three wetland replication sites starting in 2013. Hand pulling of invasive species is practiced by Stantec environmental scientists during each monitoring event (twice per year). A more rigorous invasive species management program was implemented in September 2013. A two-year herbicide application contract was issued by the Pittsfield Airport Commission and the Massachusetts Department of Transportation to manage invasive shrub and herbaceous species in wetland and wetland buffer zones throughout the vegetation management areas on the airport including the wetland mitigation sites. Work started in 2013 on September 23rd and was completed on November 13th. Work in 2014 started on August 18th and was completed on October 16th. Northern Land Clearing was the herbicide contractor for this two-year contract.

In all three replication areas Common Reed (*Phragmites australis*) was treated using the cut-and-inject method within buffer areas and, to a lesser extent, on the floor of each replication basin. The focus of these treatments was on established stands of Common Reed immediately adjacent Areas E and I. At Area I, the cut-and-dab method was used on mature European and Common Buckthorn (*Rhamnus frangula* and *cathartica*) within the wooded buffer area along the eastern edge of the basin. Spot treatment of invasives was completed within the confines of the replication areas including side slopes.

1.4.2 Slope Repairs

In May 2014, two rip-rap downspouts were removed from the north bank of Replication Area I. These were initially installed in April 2012 to address drainage issues off of the adjacent Tamarack Road which had eroded the replication area side slope several times. The two downspout locations were filled with topsoil, seeded with the approved upland seed mix, and then covered with erosion control netting. The drainage approaches to both downspouts were fitted with straw wattles to divert road drainage around the repairs. The two sites were stabilized by the end of the 2014 growing season. These sites are visible in the General Site Photographs of Replication Area I contained in **Appendix B**.

1.4.3 Herbivore Fencing

Herbivore fencing repairs were completed several times after the initial install in January 2012. Vandalism and wildlife issues (deer) prompted the replacement of fence sections at Areas E and I in 2014. The fencing remained in a functional condition until the end of the 2015 growing season. Presently, the installed shrubs and tree saplings are of a sufficient size where herbivory is no longer a significant threat. The fence posts and remaining fabric shall remain as a deterrent to ATVs through the remaining

monitoring periods. Note that ATV use has not been a significant threat to the replication areas, as the extensive woody debris placement at each site has decreased the attractiveness of the sites for off-road vehicle use.

1.4.4 Plantings

Plantings in the three replication areas were installed in late-2011 through early-2012 according to the Tables 1 (on-site transplants) and 2 (nursery stock). The plantings were a part of the Phase 1 construction activities. A sub-contractor (Sumco) of the prime contractor (JH Maxymillian) completed the planting of the mitigation sites.

An assessment of the condition of the planted stock in August 2012 prompted the issuance of a replacement list as shown in Table 3. Those replacement plantings were completed by the end of the 2012 growing season.

Since that time additional shrub live-stakes have been collected and installed each year during the fall monitoring period by Stantec environmental scientists. This practice shall be continued throughout the monitoring period to further enhance the native shrub density and diversity at the replication sites.

Table 1: On-site Transplants Installed in Replication Areas B, E and I

Contract Quantity	Actual Quantity	Site Locations	Name and Description
325 shrubs	105	Repl Area B, Repl Area E, Repl Area I,	*Salix spp.*, Willow shrub: entire root ball, minimum 3' height.
325 shrubs	342	Repl Area B, Repl Area E, Repl Area I,	*Cornus spp.*, Dogwood shrub: entire root ball, minimum 3' height.
900 live stakes	1715	Repl Area E (250), Repl Area B (160), Repl Area I, Box Culvert (75), MP Riverfront (175), WA Riverfront (473)	*Salix and Cornus spp.*, live stakes, 1"-3" in diameter, minimum 18" long.
900 live stickers	1868	Repl Area E (207), Repl Area B (150), Repl Area I, Box Culvert (25), MP Riverfront (135), WA Riverfront (673)	*Salix and Cornus spp.*, shrub stickers, made from lateral branches, 1'-2' long.

Table 2: Nursery stock plantings in Replication Areas B, E and I

Contract Quantity	Actual Quantity	Site Locations and Planting Dates	Name and Description
230	230	Repl Area E (50 11/28-11/30/11), Repl B (50 11/28-30/11), WA Riverfront (30 6/8/11), 100 remain in site nursery	*Viburnum dentatum*, Arrow-wood: #1 container, 3-5'
130	30	Repl Area B (6/8/11)	*Viburnum nudum var. cassinoides*, Wild Raisin: #1 container, 3-5'
100	50	Repl Area E (50 11/28-11/30/11)	*Viburnum opulus var. americanum*, Highbush Cranberry: #1 container, 3-5'
50	75	Repl Area E (25 11/28-30/11) Repl Area B (25 11/28-30/11) 25 remain in nursery.	*Alnus incana ssp. rugosa*, Speckled Alder:#1container, 3-5'
100	0	Unavailable; Spring 2012 Planting in Repl Area I	*Cornus racemosa*, Gray Dogwood: #1 container, 3-5'
90	90	Repl Area E (30 11/28-30/11) Repl Area B (30 11/28-11/30/11) 30 remain in nursery to be planted in Spring 2012 in Repl Area I	*Cornus stolonifera*, Red-Osier Dogwood: #1 container, 3-5'
90	90	Repl Area E (30 11/28-30/11), WA Riverfront (20 11/28-30/11) 40 remain in nursery to be planted in spring 2012 in Repl Area I	*Salix discolor*, Pussy Willow: #1 container, 3-5'
210	210	Repl Area E (30 11/28-30/11) Repl Area B (20 11/28-11/30) WA Riverfront (150 20 on 6/8/11 and 130 on 11/28/11) 10 remain in nursery	*Fraxinus pennsylvanica*, Green Ash: #2 container, 5-7'
210	120	Repl Area E (30 11/28-11/30/11) WA Riverfront (70 on 6/8/11 and 50 on 11/28-11/30)	*Acer negundo*, Boxelder: #2 container, 5-7'
40	60	Repl Area E (30 11/28-30/11). 30 remain in nursery for Repl Area I	Larix laricina, Tamarack or American Larch: #2 container, 5-7'

Table 3: Replacement Plantings Completed in Replication Areas B, E and I in August 2012

Planting Type	Replication Area B	Replication Area E	Replication Area I	Totals
Pussy Willow			3	3
Red Osier Dogwood	12	10	4	26
Green Ash	2		2	4
Highbush Cranberry		2	2	4
Arrow-wood	12	11	4	27
Box Elder	1		2	3
American Larch		8	2	10
Speckled Alder	6	2		8
Wild Raisin	30			30
Live Stakes / Stickers	50	30		80
Shrub Transplants	15			15
Totals	128	63	19	210

1.5 RECOMMENDATIONS FOR ADDITIONAL REMEDIAL ACTIONS

The following actions are recommended to continue the performance of the three wetland compensation sites constructed for the Runway 8/26 safety area improvements at Pittsfield Municipal Airport. These actions will protect and enhance the functioning of the two sites and contribute towards the cover type objective of the mitigation plan. These actions should be performed through 2017 to address remaining concerns.

1. European and Common Buckthorn control along the eastern edge of Area I is needed to control the rate of seedling colonization within that replication area. This eastern edge should be included on a future airport-wide herbicide effort.
2. Common Reed control in the buffer zone areas of Areas E and I needs to continue, along with spot treatment of actual Common Reed stems in the interior of Areas B and I. The cut-and-inject method applied during the Spring monitoring period (June) would be the optimal choice of controls at this stage of replication area development. The few stems within the actual replication areas are widely scattered and small, thus any other application methods has a higher chance of causing non-target mortality.
3. Low shrub stem density in portions of Areas E and I require additional shrub live-stake and sticker installations in the Fall (2016 and 2017). It is recommended that an additional 200 stems be installed within each of the two replication areas during each of the next two Fall periods. The species composition of the additional stakes/stickers should be roughly equal between Red Osier Dogwood, Gray Dogwood, Hoary Willow and Bebb Willow.
4. Low tree stem density in each of the three replication sites requires additional transplants from adjacent wetlands. Install 10 sapling transplants in each of the three sites in the Fall (2016). Species may include Tamarack, Eastern Hemlock, Red Maple, Box Elder or Swamp White Oak. Each transplant shall be appropriately tagged for the purpose of survivability monitoring.
5. Existing shrub and tree stems in Areas E and I require further maintenance. During each monitoring period, shrub and tree specimens should be relieved of encroaching (dense) herbaceous growth to decrease competition and expedite growth rates within the scrub-shrub and forested wetland cover types. This “freeing-up” of the prime nursery stock specimens has been practiced each year since the planting phase, and should be continued.
6. The need for further biological controls of Purple Loosestrife (*Lythrum salicaria*) should be evaluated in 2016 for Area B (and the adjacent Wild Acres Brook Wetland Restoration Area). Herbivory is evident on loosestrife at this site, and the extent should be further monitored in 2016 to determine if the herbivory is sufficient to control the observed loosestrife density. Significant loosestrife stands were present in this wetland system prior to the replication area construction. Work with the Connecticut Invasive Plant Working Group (CIPWG), University of Connecticut, Department of Plant Science, Unit 4163, Storrs, CT 06269-4163 at (860) 486-6448 to investigate the purchase of sufficient quantities for the sites if the evaluation finds a need for additional stock.

2.0 Regulatory and Plan Requirements

There are five success standards established for Replication Areas B, E and I as described in the Mitigation Plan prepared for the project as a part of the Army Corps of Engineers (ACOE) Section 404 permit process. This section provides the success standards, and a brief response to the standards based on the monitoring completed to date.

2.1 PERFORMANCE STANDARDS

Monitoring of the wetland replication sites focuses on the following standards as a means to determine whether the compensatory mitigation project has successfully achieved the approved performance and/or success standards or trending towards success.

2.1.1 Hydrology Standard

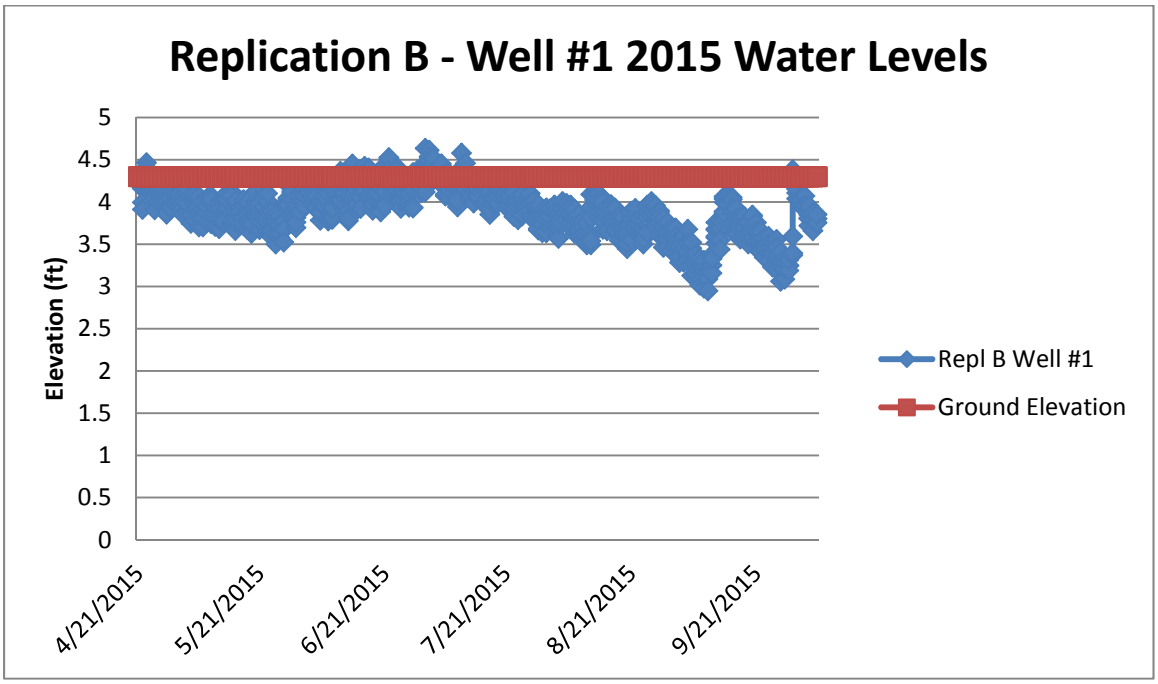
The site has the hydrology, as demonstrated with field data and other substantial evidence, to support the designed wetland type. Data gathered for water depth and temperature support wetland habitat?

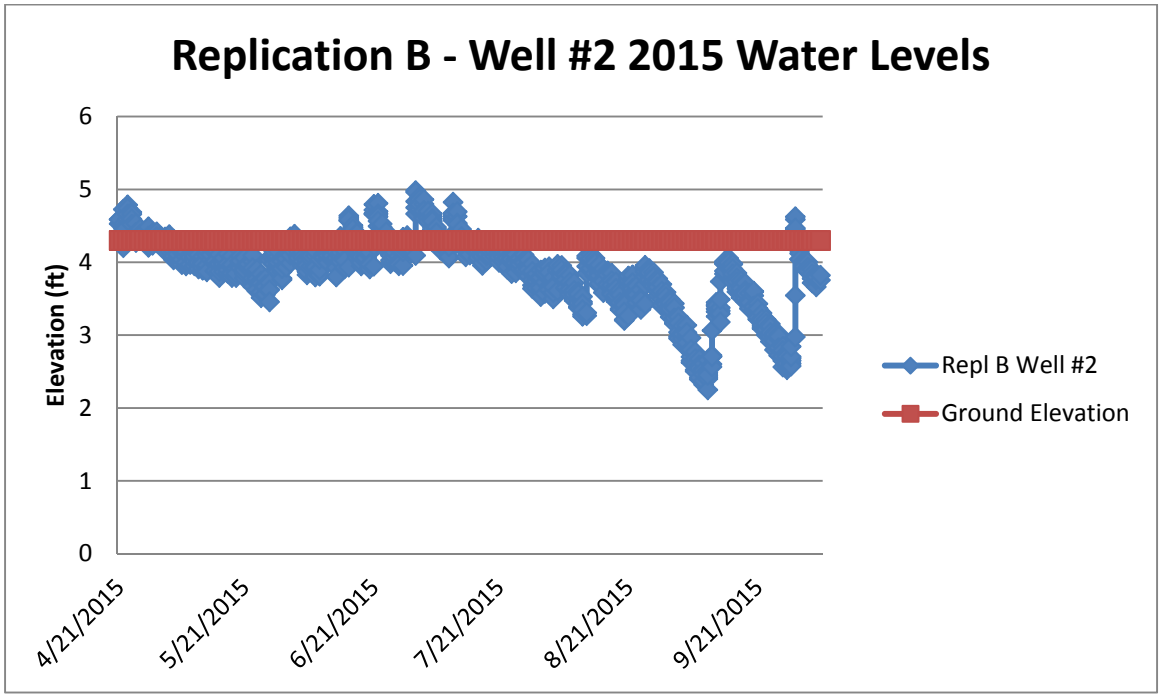
Two automated water level data loggers were installed within each of the three replication areas in 2014 (a total of six Solinst Leveloggers model 3001 were installed). Each well location in the replication areas is shown on Figures 2 through 4. Note that each well also serves as a plot center for the wetland plant data monitoring plots, and thus can be seen in the respective plot photographs contained in **Appendix B**. The data loggers have been re-installed in each of the wells as of March 30th (2016).

In Replication Area B, the two wells are located within designated scrub-shrub areas where groundwater levels should be sufficiently close to the surface to inhibit the growth of trees. In Replication Area E, both wells are located within the high points of the replication site in proposed forested wetland cover types. Here, the groundwater should be sufficiently deep to provide for large tree root systems while still close enough to the surface to interact with the root systems and topsoil to promote the various wetland biochemical processes. In Replication Area I, Well #1 is located within a designated scrub-shrub area while Well #2 is within a higher, forested wetland site. The plans located in **Appendix E** show the intended cover type distribution for each of the replication sites.

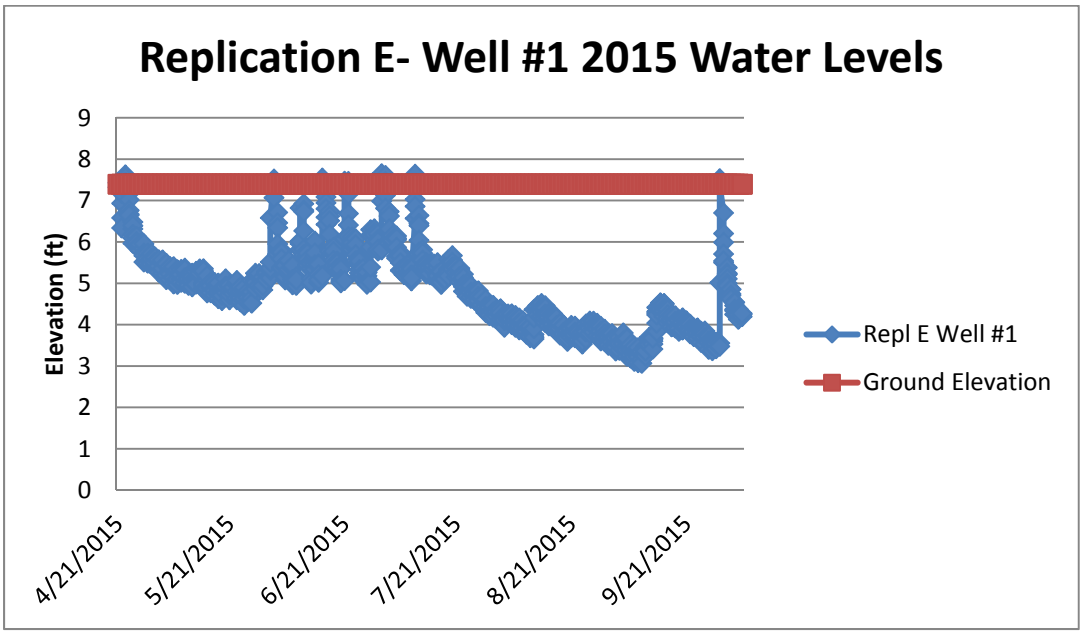
The automated data loggers recorded water levels in the wells every four hours, providing up to 6 readings per day. The loggers were installed on April 21st and removed on October 6th (2015), providing for a full (2015) growing season monitoring of the three sites. The raw data is provided in **Appendix D** while Charts 1 through 6 on the following pages display the water level data relative to the ground surface elevation present at each well.

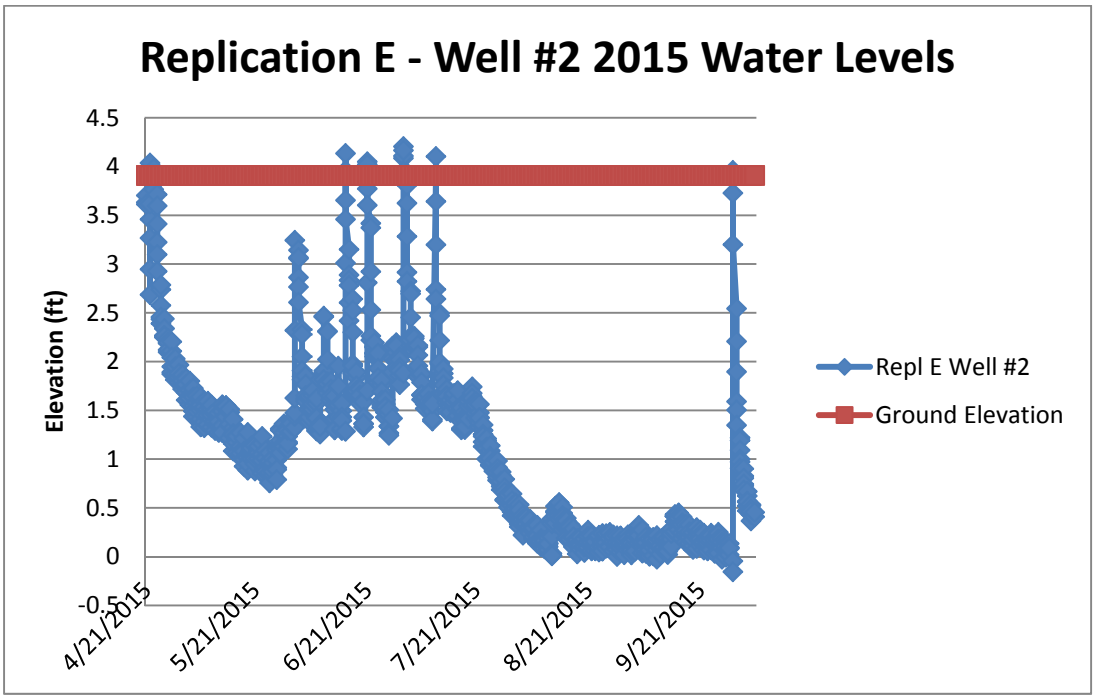
Charts 1 and 2: Replication Area B Monitoring Well Data
Both wells are within designated scrub-shrub cover types.



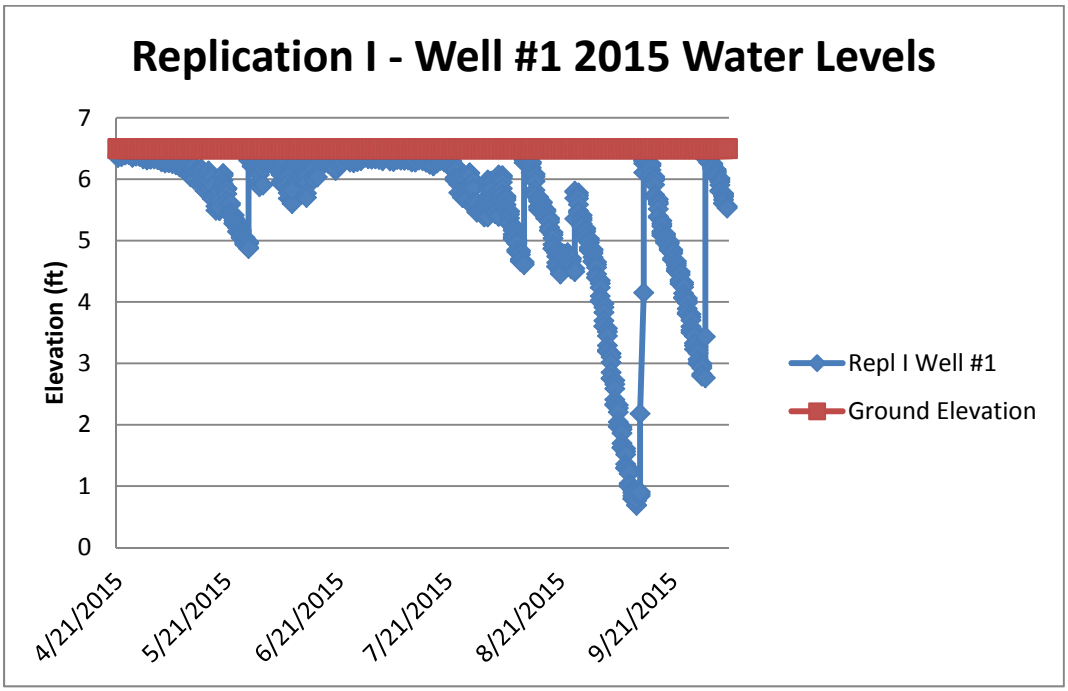


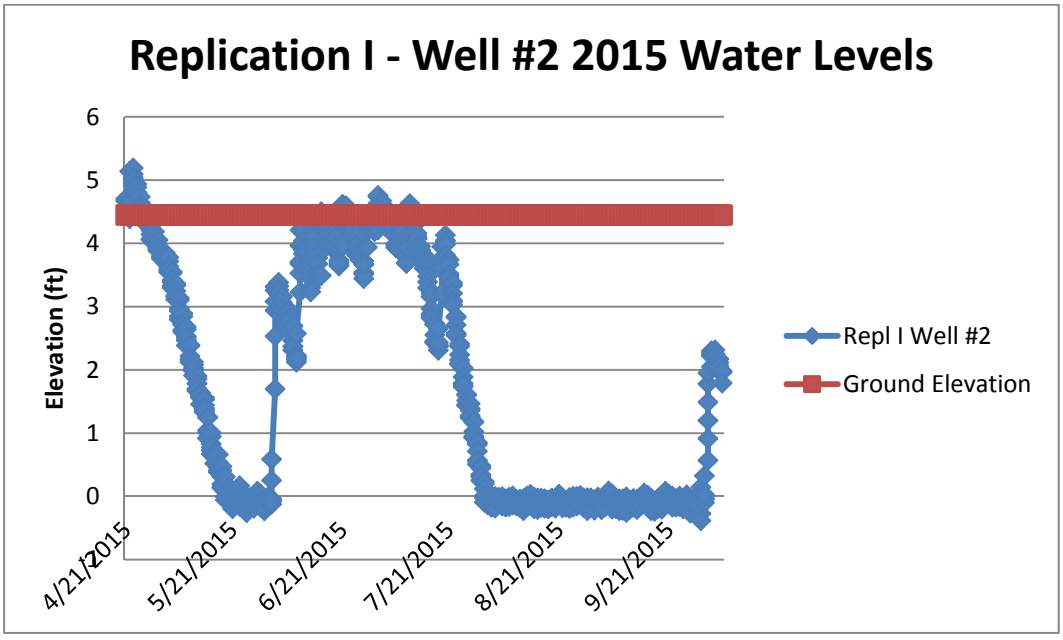
Charts 3 and 4: Replication Area E Monitoring Well Data
Both wells are within designated forested wetland cover types.





Charts 5 and 6: Replication Area I Monitoring Well Data
Well #1 is located within a designated scrub-shrub cover type while Well #2 is within a forested wetland cover type.





In general, each of the data sets reflects the precipitation data for 2015. A very dry April and May was followed by a wetter than normal June and early-July. The growing season ended with an extended dry period from August through early-November with a net precipitation deficit of greater than 3 inches by the end of the year. In fact, 2013, 2014 and 2015 were all drier-than-normal years with annual precipitation deficits around 3 inches for each of the years as shown in **Table 10**.

For the 2015 season, the measured hydrology in Replication Area B appeared suitable to sustain the intended scrub-shrub cover in the vicinity of the wells. Of the 1008 readings taken at Well #1, all recorded groundwater within two feet of the soil surface. Likewise, of the 1006 readings collected at Well #2, all recorded groundwater levels within two feet of the soil surface. Groundwater was at the surface for all of the growing season which would limit the establishment of tree species, and would limit growth to only those shrubs capable of colonizing very wet conditions (such as red osier dogwood, willow and alder). The area around Well #2 is nearly too wet to support wetland shrub growth, but recent data shows that willow seedlings are becoming established in this low-area of Replication Area B.

In 2015 Replication Area E showed passable water levels to support a forested wetland type. The dry early and late seasons resulted in groundwater levels receding to more than three feet below the ground surface. In Well #1, of the 1006 readings collected in 2015, 334 recorded groundwater levels within two feet of the soil surface. The minimum measurement was an actual ponding event of two inches while the maximum depth to groundwater was 7.5 feet. The average was 2.5 feet between April and November. In Well #2, of the 1006 readings collected 196 recorded groundwater levels within two feet of the surface. The minimum depth at Well #2 was a ponding event of 2' with the maximum depth around 4.1 feet. The average was slightly lower than that of Well #1 at 2.7 feet. Given the dry conditions in 2015 and the fact that the well locations represent the high points of this replication area, it is probable that these levels will support the targeted forested wetland cover type in Replication Area E. Further data during a more typical year is needed to support this contention, and the loggers are already installed for the 2016 season.

The 2015 hydrological data for Replication Area I was also satisfactory. At Well #1, of the 1006 total readings collected at the well, 892 reported groundwater within two feet of the soil surface with an average depth of 0.9 feet, a minimum of -.04 feet (ponding) and a maximum of 5.8 feet. At Well #2 in a more elevated section of the site, 414 readings of less than two feet were recorded with an average depth of 2.7 feet, a low reading of -0.7 feet (ponding) and a maximum of 4.8 feet. The Well #2 data were very similar to those for Replication Area E (Well #2). As with Replication Area E, it would be beneficial to have wetter conditions in the forested wetland cover types, thus the levels during a more typical precipitation year should be monitored and reviewed to determine the adequacy of the hydrology for the forested wetland cover types.

Furthermore, the success of the hydrophyte plant community, as determined through analysis of the vegetation monitoring plots, will also determine the adequacy of the site hydrology to support the designated wetland cover types. The vegetation analysis in this report contains a hydrophyte assessment for each of the monitoring plots established in the wetland replication sites. The raw vegetation data is

contained in **Appendix A**. The hydrophyte calculations are included in **Tables 4 through 6** of this report. Chart 8 provides a comparison of this measurement from 2013 through the present monitoring period (2015). It is evident that all three sites exceed the dominance threshold for native hydrophytes for consideration of the sites as vegetated wetlands under both State and Federal guidelines.

2.1.2 Woody Stem Density Standard

The proposed vegetation diversity and density goals for woody plants from the plan are met?

Stem counts of introduced and naturally occurring native trees/shrubs and species diversity measurements have been collected from each of the established vegetation monitoring plots in each of the replication areas; six plots were established in Area B and eight plots established in each Area E and I (22 total plots). Woody stem counts were collected for each of the plots from late-2012 through 2015, allowing for an estimation of the total number of trees/shrubs per acre at each of the two sites. The target density of native woody vegetation at each of the two sites is approximately 500 stems per acre. Tables 4 through 6 provide stem count results from the monitoring plots while Chart 7 provides a visual display of the results. Note that the data did not include small tree seedlings in woody stem density calculation. In particular, it was noted that Cottonwood (*Populus deltoids*) and Red Maple (*Acer rubrum*) could be present in high densities in a plot in one year and significantly absent or reduced in number during the next monitoring event. Only those native woody stems with a high likelihood of surviving in the plot were included.

In Area B the densities have increased from 12 in a 15-foot radius circle in 2012 to an average of 18. This is equivalent to over 1,000 native woody stems per acre in this replication area. The low plot (B3) represents the wettest of the plots and continues to be dominated by herbaceous emergent vegetation. However, event given the wet conditions at B3 the native willow species have started to colonize that plot. B4 was used as a test plot in late-2012 to install additional shrub live-stakes from native willows in the adjacent wetland. The results were tremendously successful, exhibiting a high survivability of the introduced stems.

Table 4: Estimate of Native Woody Stem Density in Replication Area B

Acreage units are used in the table since the success standard requires an approximate "500 native woody stems per acre". The average is the number used to determine the site success relative to the standard.

Monitoring Plot ID	Native Woody Stems w/in 15' Radius - 2012	2013	2014	2015	Estimated Woody Stem Density for Replication Area B 2015
B-1	6	7	11	14	860/acre
B-2	14	16	15	17	1044/acre
B-3	0	3	3	4	246/acre
B-4	15	24	24	27	1658/acre
B-5	8	7	7	8	491/acre
B-6	31	26	30	39	2395/acre
Average	12	14	15	18	1115/acre

In Area E the woody stem density has just surpassed the targeted 500 stems per acre as an average; but many of the plots remain below the targeted density. The high density at E1 (which is only representative of approximately 15% of the replication area condition) masks the difficulties experienced by some of the other plots. Plots E3, E4 and E5 represent a large internal area of Area E and the densities in those plots remain below acceptable levels. The specimens continue to exhibit slow growth at this site, particularly the introduced tree species which have only grown between 1 and 2 feet since their 2012 introduction. Note the die-off in stock after the 2012 planting period in many of the monitoring plots followed by a slow, but steady recruitment through the 2015 period. Some of the increases in plot densities were a result of the annual live-stake plantings completed by Stantec in November of each monitoring year.

Table 5: Estimate of Native Woody Stem Density in Replication Area E

Acreage units are used in the table since the success standard requires an approximate "500 native woody stems per acre". The average is the number used to determine the site success relative to the standard.

Monitoring Plot ID	Native Woody Stems w/in 15' Radius - 2012	2013	2014	2015	Estimated Woody Stem Density for Replication Area E 2015
E-1	13	9	9	23	1417/acre
E-2	6	5	6	9	555/acre
E-3	1	2	4	5	308/acre
E-4	3	4	4	4	246/acre
E-5	4	2	2	4	246/acre
E-6	11	2	2	4	246/acre
E-7	4	5	7	9	555/acre
E-8	16	7	6	11	678/acre
Average	7	5	5	9	**532/acre**

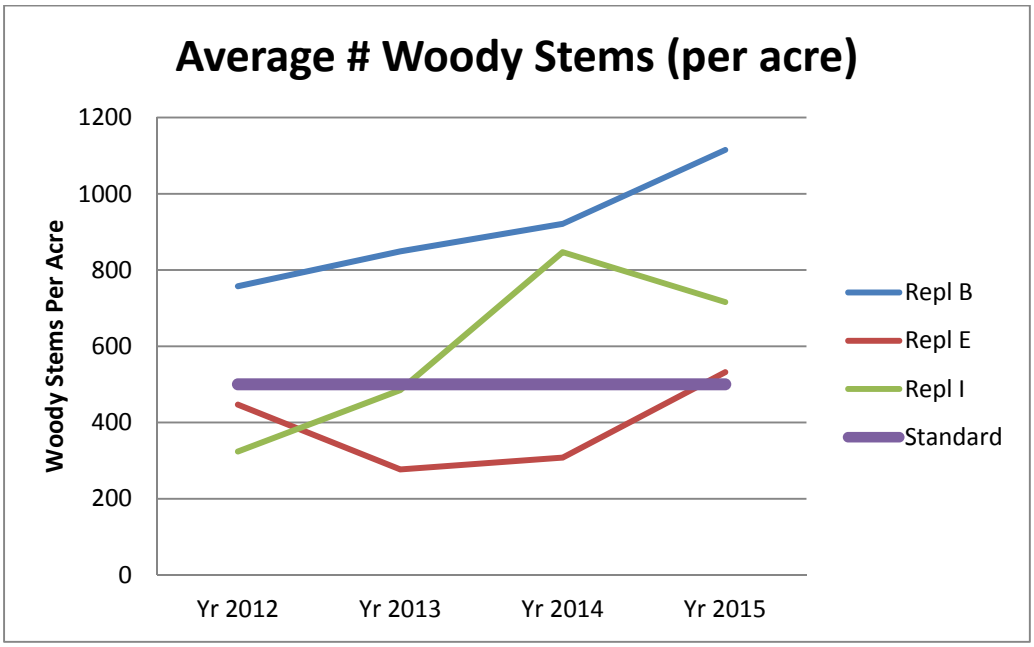
Replication Area I has similar results to those results encountered in Area E. A high density in a couple of the plots masks the lower than expected densities in the interior plots. In particular, plots I6 and I7 are sub-par performers for Area I. The average of this replication area remains above the standard at 716 stems per acre, but improved average cover and improved tree recruitment is necessary to meet the targeted cover type. Remedial measures are included in this report to compensate for the low densities of some of the plots in both Areas E and I.

Table 6: Estimate of Native Woody Stem Density in Replication Area I

Acreage units are used in the table since the success standard requires an approximate "500 native woody stems per acre". The average is the number used to determine the site success relative to the standard.

Monitoring Plot ID	Native Woody Stems w/in 15' Radius - 2012	2013	2014	2015	Estimated Woody Stem Density for Replication Area I 2015
I-1	3	5	6	7	431/acre
I-2	6	25	29	27	1664/acre
I-3	4	6	11	13	801/acre
I-4	6	7	8	11	678/acre
I-5	11	7	11	11	678/acre
I-6	6	5	5	5	308/acre
I-7	2	3	33	8	493/acre
I-8	4	5	7	11	678/acre
Average	5	8	14	12	**716/acre**

Chart 7: Number of native woody stems per acre within the monitoring plots in Replication Areas B, E and I; 2012 through 2015 (Fall data)



The results of the 2015 monitoring period suggest a high potential for success relative to the wetland cover type intentions of the wetland creation site plan. Recruitment of native shrubs is starting to comprise an increasing percentage of the shrub layer in many plots, but the diversity of the recruitment is low. Three species dominate the recruitment and include Bebb Willow, Hoary Willow and Raspberry; however Red Osier Dogwood, and Speckled Alder recruitment has been commonly noted. There was no significant increase in the overall height of the on-site vegetation during the 2013-2015 monitoring period. Only the willow growth is notable to date. The woody growth is observable in the general site photographs of **Appendix B**. These photos were collected from the same sites as the previous years.

2.1.3 Hydrophyte Standard

Do the replication sites have at least 80% aerial cover, noninvasive hydrophytes?

The vegetation monitoring plots in each of the three wetland replication areas are used as representative areas for determining the coverage of noninvasive hydrophytes for each entire site area. The raw data on the vegetation monitoring forms (**Appendix A**) has been analyzed for this standard, with the results presented in Table 7 (Area B), Table 8 (Area E) and Table 9 (Area I). While some of the individual plots may fall slightly below the 80% threshold, the present average for all sites (provided at the bottom of each table) is equal to or greater than 80% for 2015 by the end of the growing season.

When the wetland shrub cover is added to this analysis, all three replication areas easily attain the targeted 80% aerial cover of hydrophytes. The addition of the nursery stock and naturally occurring wetland shrub cover to the hydrophyte calculations results in exceedance of the standard for all sites.

2.1.4 Invasives Standard

Planned scrub shrub and forested areas have at least 60% cover by non-invasive hydrophytes, of which 15% are woody species?

The coverage of the shrub layer is increasing at the replication sites as the nursery stock continues to expand, and natural tree/shrub recruitment adds additional species and coverage. For these early monitoring reports, analysis of the shrub layer had been restricted to stem counts in accordance with the "stems/acre" success standard that was set for the shrub layer in the replication areas mitigation plan.

Presently, all of the monitoring plots meet the "60% cover by non-invasive hydrophytes" portion of this standard as is clearly demonstrated in Tables 7 through 9 of this report. The averages reported for the sites in both June and September, 2015 show that the total non-invasive hydrophyte coverage exceeded 70% at the three sites. Additionally, Tables 4 through 6 reveal that all monitoring plots contain at least four native wetland shrubs per plot, with an average of 18 stems (Area B), 9 stems (Area E) and 12 stems (Area I) reported for the September 2015 monitoring period. While the physical numbers of woody stems suggest compliance with this standard, additional growth is needed of the tallied stems for the scrub-shrub and forested cover types functions to be realized at each site. For this reason, additional care of the existing woody stems and the addition of more shrubs and trees are recommended actions.

2.1.5 Remediation Standard

Invasive plants at the mitigation site(s) are being controlled.

Invasive species are present at both compensation sites as documented in the monitoring plot program (**Appendix A**). Tables 7 through 9 provide information on the presence of invasive species in the individual plots for each replication site. Refer to the corresponding data sheet for species-specific information for a given plot. Overall, the high percentage of invasives is within Replication Area B (11% cover) with the low at Replication Area E (4% cover).

The current invasives threat is primarily Purple Loosestrife at Area B, where consumption by herbivorous beetles continues to be observed (the beetles must be from a release in the project area; no releases were practiced by the airport). Loosestrife coverage at Area B has remained at approximately 10% over the past three monitoring seasons, but is expected to decrease due to shading by the expansion of the shrub layer over time Recommendations in this report include the monitoring of loosestrife at Area B and the purchase of herbivorous beetles if significant spread is observed.

Common Reed cover within the buffer zones of Areas E and I, and some individual stems in Areas B and I are cause for some concern. Herbicide control has been practiced during this monitoring period, but further effort is recommended in the form of additional cut-and-inject treatments. Similarly, the presence of mature buckthorn in the wooded area east of Area I will continuously provide seed stock to the replication area. Further control of these mature shrubs adjacent to Area I is recommended.

2.1.6 Stabilization Standard

Are all slopes within and adjacent to the restoration/enhancement site stabilized?

Complete stabilization of the side slopes of Replication Areas B, E and I was achieved in late-2012. Further refinement of the north slope at Area I was completed in May 2014 with the removal of two temporary rip-rap downspouts (as coordinated with the Massachusetts Department of Environmental Protection). No erosion control barriers remain at either site and no further stabilization measures are warranted. A thick turf mat is established within all of the graded upland and wetland areas associated with the runway safety area project.

3.0 Methods and Summary Data

2013 was the first full growing season for Replication Areas B, E and I at the Pittsfield Municipal Airport. The 2015 growing season represents only the second year of monitoring since the completion of all plantings and replacements. This report provides the first measurement of the progress of the site relative to the success standards. These success standards are summarized in Section 2.0 of this report.

The post-construction monitoring effort includes the analysis of 22 vegetation monitoring plots within the three wetland replication areas twice per year; once in the spring and again in the fall. In 2013, vegetation monitoring efforts were completed in June and October; these months were the target monitoring periods for each subsequent annual effort.

The monitoring plot analysis focused on the reaction of plant species to the newly graded and prepared soil conditions. Wetland species, particularly herbaceous species categorized by an obligate wetland indicator status, can quickly respond to changes in soil moisture. A net change from obligate and facultative-wetland indicator plant species within the herbaceous stratum, to facultative and facultative-upland plant species over several years may indicate a possible hydrological deficiency in the created wetland soils. Conversely, the slow transition to a more dominant hydrophyte community over the 5-year monitoring period is a good indicator that a suitable wetland hydrology exists at the site. Since local rainfall patterns and other natural factors can also change vegetation conditions, it may take several years' worth of data collection to determine whether vegetation trends are the result of either natural factors or the site grading scheme relative to the average groundwater conditions. Recent precipitation data for the regional area is included in Table 10 of this report, including monthly averages for the region. Precipitation data is an important component of each monitoring report, and the same data source was used to evaluate all five monitoring periods.

3.1 WETLAND VEGETATION MONITORING

The wetland vegetation monitoring effort included the selection of monitoring plots at each of the three replication areas (Areas B, E and I). Each plot is named for its replication site (B, E or I) and the plot number (1 through 6 for B and 1 through 8 for E and I). Figures 2 through 4 provide the location of each plot and their unique identifiers. Photographs of each plot are provided in **Appendix B** including both spring and fall views. Each plot photo sequence includes distant and close-up shots. Photographs are taken from the same angle/distance during each monitoring period, providing a visual comparison of the plots in a side-by-side review of successive monitoring reports. This is particularly useful for the woody cover assessment.

Vegetation data were collected for the herbaceous layer within each of the vegetation monitoring plots using a 5-foot radius circle. The center of each sampling plot is marked by a wood stake as shown in the plot photographs in **Appendix B**; a countersunk metal spike was also installed at each plot center to allow for re-locating each plot center should the wood stake be lost. Measurements of percent cover were

used to identify dominant species in each vegetation stratum and to establish the percent cover by wetland species within each plot.

A 5-foot radius circle is used for estimating the percent coverage of the herbaceous stratum. The percent dominance of each species in each herbaceous stratum was then calculated using the true percentage of each species within the sample plot as opposed to using midpoint values, which are typically used to reduce statistical error. Use of the actual percentages was selected as the preferred method for this monitoring program due to the importance of all representative species in determining the suitability of the site to provide a dominant hydrophyte cover type, and the use of the data to determine trends. Careful tracking of individual species over successive monitoring periods is required to determine if a particular species is trending towards dominance or loss in the plot. Use of mid-point values for such analysis will mask small changes in the trend.

Shrub and tree species were measured within a 15-foot radius circle, and stem counts were used to determine the relative abundance of each species. Since all of the larger woody species were introduced (planted) at the site, they were not included in the hydrophyte determination. Rather, the shrub/tree species are tallied to determine compliance with the success standards #3 and #5 (see Section 2.0 of this Report). Note that colonization of the site by woody seedlings is included in the groundcover assessment until the individuals exceed 3' in height (which just started to occur during the 2015 monitoring period). These naturally occurring seedlings are documented on the individual plot data sheets.

The results of the sampling were reported on Vegetation Monitoring Data Sheets, located in **Appendix A**. Each form is marked with a site identifier and a monitoring plot identifier. Dominant plants were determined based upon their relative abundance within the herbaceous stratum. Dominant species are the most abundant plant species that immediately exceed 50% of the total dominance measure for the stratum, plus any additional species that individually comprise 20% or more of the total dominance measure for the stratum. Where no species exceeds 50% of the total dominance measure (when ranked in descending order of abundance and cumulatively totaled), percentages are added together until the number reaches at least 50%, making those species dominants. A "D" is placed next to the dominant species on the individual forms. The percent cover, relative abundance, and wetland indicator status is listed for each identified species. The total cover of wetland species and the species richness of non-woody plants are then calculated for each monitoring plot. These are reported in Tables 7 through 9.

3.2 MONITORING PLOT RESULTS

The following sections provide a summary of the results of the individual plot analysis for 2013 through 2015. Refer to Tables 7 through 9 and the individual data sheets in **Appendix A** for additional information while reviewing the following narrative.

The first growing season of a compensation site represents a period of successional competition where the species diversity is typically high with multiple dominant species; the 2013 season represented the successional period for Wetland Replication Areas B, E and I at Pittsfield Airport. The "middle" years of

the monitoring period (years 2 through 4) would typically show a trend towards stability relative to the hydrology of the site. The trend over these next several years will be to a more stable environment as the site hydrology eradicates unsuitable plant species and favors others, with a corresponding decrease in species diversity and a trend towards one or two dominant hydrophytes per monitoring plot. The 2015 data reflects the start of the anticipated stability trend.

A review of the general site photographs in **Appendix B** for Area B clearly shows the progress of vertical and horizontal vegetative coverage since 2013. Overall site growth was encouraging, as the groundcover continues to provide full coverage of the soils and rapid spread of the shrub layer is occurring. The general photographs for Area B clearly show the progress of willow and dogwood throughout the basin, and the excellent native rush/sedge cover of the basin bottom. The side slopes are completely stable, colonized by native grasses and goldenrod. Willow and Cottonwood are two recruitment species that have shown tremendous spread of the basin. The northeast corner of this site shows the least progress, with a lower shrub stem density and some Common Reed issues. This area will be the focus of remedial efforts in 2016.

The general photographs for Area E show the complete vegetative coverage of the site and stability of all side slopes. They show the significant woody debris coverage of this site (in particular). At issue with E is the lack of vertical growth of the shrub and tree stems. While Tamarack has made recent strides, continued maintenance of the other stems is necessary to achieve the desired cover types. Small areas of willow and alder growth in Area E suggest good progress on scrub-shrub cover in the lower areas of this replication site. Overall invasives cover is very low at this site. Dominance of the site by the native wetland grasses of the seed mix continue. Slow replacement of these species from the seed mix is occurring, but at a slower rate than anticipated.

The Area I results are much like those observed in Area E. Complete vegetative cover and side slope stabilization has been achieved. The nursery stock plantings have survived, but have exhibited slow growth rates over the first three growing seasons. The live stake/sticker survivability was relatively low in Area E, but recruitment has more than made up for the poor stake and sticker success.

Table 7: Replication Area B Vegetation Monitoring Plot Data Results

	Total % Goundcover			% Cover of Invasive Species			% Cover of Native Hydrophytes		
Monitoring Plot ID	2013	2014	2015	2013	2014	2015	2013	2014	2015
B-1	62	130	97	2	12	4	95	88	95
B-2	63	97	73	2	5	4	84	89	71
B-3	101	122	87	12	12	9	87	88	91
B-4	67	109	67	7	12	0	87	78	94
B-5	99	110	78	8	14	8	90	89	88
B-6	132	111	67	7	9	15	93	91	78
Average	87	113	78	6	11	7	89	87	86

Spring Data

	Total % Groundcover			% Cover of Invasive Species			% Cover of Native Hydrophytes		
Monitoring Plot ID	2013	2014	2015	2013	2014	2015	2013	2014	2015
B-1	119	144	138	6	8	7	89	90	91
B-2	114	100	86	3	3	3	80	81	86
B-3	148	140	116	12	13	16	86	86	83
B-4	114	109	103	9	12	10	79	78	83
B-5	132	122	110	8	10	15	89	87	81
B-6	132	112	88	7	8	14	93	91	81
Average	127	121	107	8	9	11	86	86	84

Fall Data

The 2015 monitoring plot data for Area B shows minimal change in the hydrophyte and invasive species condition over the monitoring period. Overall invasives coverage continues to be moderate, with an occurrence of Loosestrife in all of the plots. Common cattail is present in Area B but is decreasing with each monitoring year as the sedge/rush cover expands. The cattail have been outcompeted by the aggressive growth of soft rush, lurid sedge and wool grass along with the spread of the willow-dominated shrub layer. The dense herbaceous mat is eradicating the long-term presence of surface water on this site, which also seeks to reduce cattail coverage (and makes the site less attractive to loosestrife as well). The progress of the loosestrife seedlings measured in some of the plots needs to be monitored as it remains a significant species relative to coverage.

The percent cover of native hydrophytes in the groundcover at Area B remains high at 84%, easily exceeding the success standard of 80% when the native wetland shrub cover is included. Of note is the natural influx of wetland rushes/sedges throughout Area B which is indicative of stability. The total percent cover of herbaceous species in Area B is at 107% (down from 127% in 2013); indicating that there is little room for additional colonization. The shrub cover for Area B has expanded to an average of about 10%.

Table 8: Replication Area E Vegetation Monitoring Plot Data Results

Spring Data

	Total % Groundcover			% Cover of Invasive Species			% Cover of Native Hydrophytes		
Monitoring Plot ID	2013	2014	2015	2013	2014	2015	2013	2014	2015
E-1	83	70	69	2	7	0	90	89	94
E-2	63	93	72	3	8	0	89	87	78
E-3	71	102	53	0	0	0	96	90	74
E-4	64	61	41	0	0	0	80	67	41
E-5	68	90	56	1	0	0	91	71	61
E-6	71	87	58	3	0	0	69	70	64
E-7	61	74	60	0	7	0	87	89	72
E-8	67	85	66	12	4	0	73	87	59
Average	69	83	59	3	3	0	84	81	68

Fall Data

	Total % Groundcover			% Cover of Invasive Species			% Cover of Native Hydrophytes		
Monitoring Plot ID	2013	2014	2015	2013	2014	2015	2013	2014	2015
E-1	105	95	115	5	3	7	85	93	83
E-2	100	119	131	10	3	8	83	92	91
E-3	82	123	100	0	0	0	94	89	100
E-4	70	66	73	0	0	0	87	82	77
E-5	94	99	90	1	0	0	91	72	78
E-6	87	104	104	5	1	1	71	78	78
E-7	95	135	145	0	2	10	92	94	86
E-8	96	95	117	8	3	4	77	86	91
Average	91	105	109	4	2	4	85	86	86

The 2015 monitoring plot data for Area E exhibits a good average cover of hydrophytes with a few problematic plots that remain under 80% cover. The invasives cover is quite low for Area E with several plots containing no invasives presence.

The percent cover of native hydrophytes in the groundcover at Area E is 86%, easily exceeding the success standard of 80% when the native wetland shrub cover is included. The total percent cover of herbaceous species in Area E is at 109% (up from 91% in 2013); indicating that there is little room for additional colonization. The shrub cover for Area E is a bit low due to the small size of the woody stems in the plots.

Table 9: Replication Area I Vegetation Monitoring Plot Data Results

Spring Data

	Total %Groundcover			% Cover of Invasive Species			% Cover of Native Hydrophytes		
Monitoring Plot ID	2013	2014	2015	2013	2014	2015	2013	2014	2015
I-1	49	57	77	6	9	3	69	84	84
I-2	38	65	106	13	14	5	84	86	95
I-3	54	72	86	4	4	0	56	86	94
I-4	35	81	88	11	5	1	74	89	99
I-5	33	68	95	12	18	4	73	65	93
I-6	35	54	82	6	2	4	86	93	96
I-7	66	84	87	0	0	7	67	93	92
I-8	42	62	58	0	0	0	60	90	81
Average	44	68	85	7	7	3	71	86	92

Fall Data

	Total % Groundcover			% Cover of Invasive Species			% Cover of Native Hydrophytes		
Monitoring Plot ID	2013	2014	2015	2013	2014	2015	2013	2014	2015
I-1	70	109	140	6	6	6	84	93	6
I-2	73	95	93	12	6	9	88	94	91
I-3	86	94	120	2	3	3	70	88	93
I-4	52	96	95	8	4	4	85	94	94
I-5	72	87	91	7	8	8	63	76	79
I-6	63	85	101	5	1	3	75	93	93
I-7	88	101	109	0	0	0	84	89	95
I-8	59	69	84	0	0	4	81	88	89
Average	70	92	104	5	4	5	79	89	80

Area I shows an invasive species coverage that is below the success standard. Purple loosestrife is present in the groundcover layer in some of the plots, from a low of 0% to a high of 9% coverage. The 5% average invasive coverage per plot is primarily a result of the standing water of a few plots (plots I-2, I-3 and I-5). Where flooding was absent, excellent native species diversity and hydrophyte coverage was achieved. While the native hydrophyte coverage average was acceptable relative to the hydrophyte success standard, there was clearly a trend towards an emergent system dominance in a few plots. The average shrub cover needs to improve in this area, in addition to the size of the woody stems to achieve the desired cover types. For now, the continued control of invasives combined with the adequate hydrology to support the high level of hydrophytes reflected in the data suggests proper conditions to achieve success with the cover types. Remedial measures are needed to increase the rate at which the cover type success is achieved for Area I.

Chart 8: Percent cover of native hydrophytes in the groundcover within the monitoring plots in Wetland Replication Areas B, E and I; 2013 through 20151

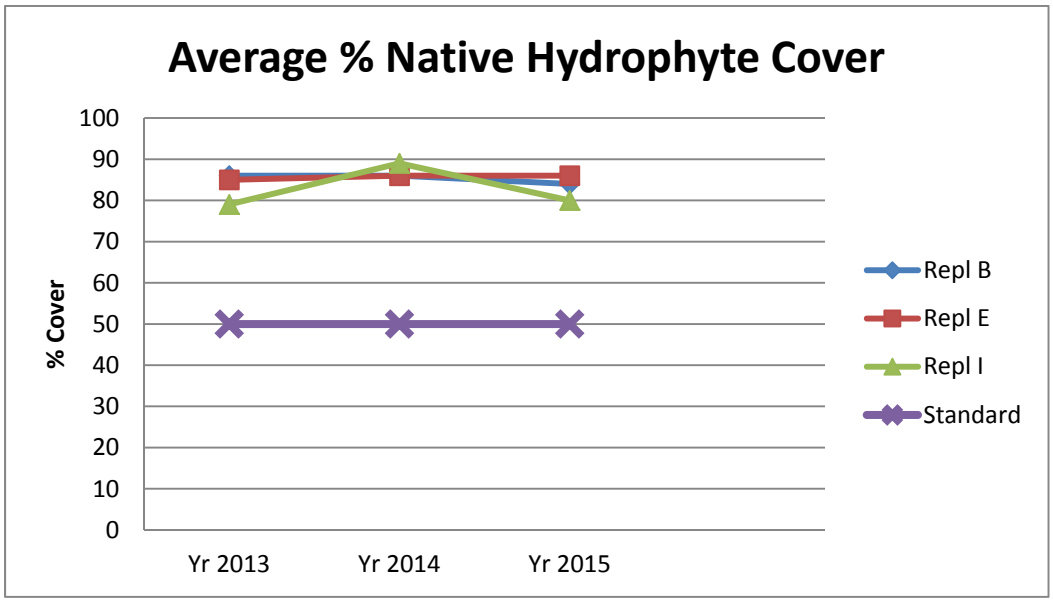
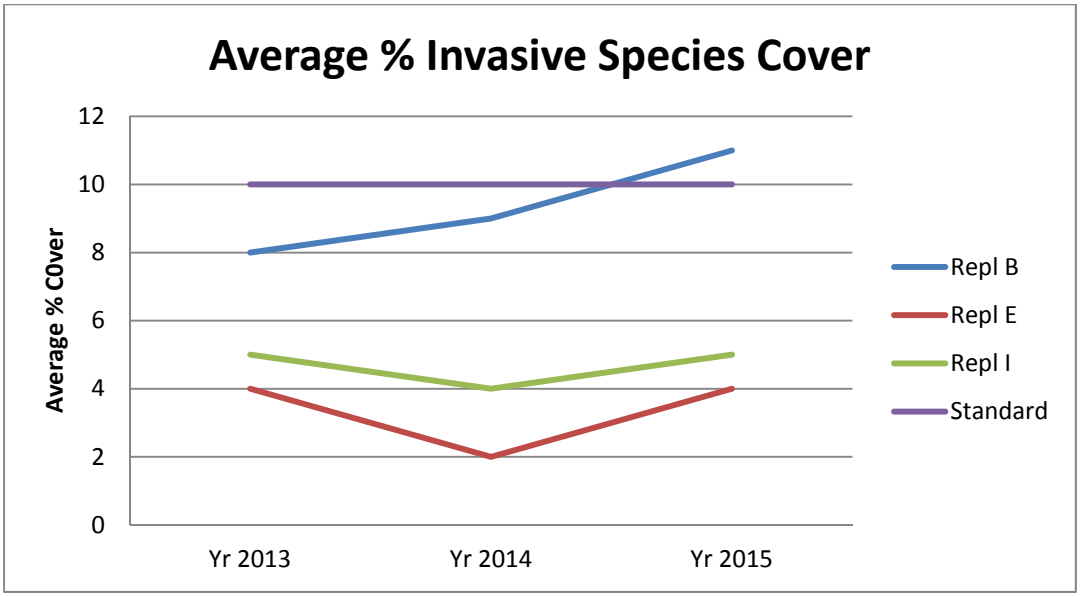


Chart 9: Percent cover of invasive plant species within the monitoring plots in Replication Areas B, E and I; 2013 through 2015 (Fall data)



[1] Fall data sets used for all monitoring years

Collectively, the hydrophyte and invasives data show success at the wetland replication areas. Of note is the need for improvement of the native woody stem density at the sites, and the continued presence of a dominance of native wetland species at both sites. A review of the individual data forms in **Appendix A** shows multi-species coverage of the plots, with most plots containing co-dominants. It is apparent that the average hydrology is sufficient to sustain a dominance of wetland vegetation. Scrub-shrub cover is anticipated for all of Area B and significant portions of Areas E and I. Groundwater levels appear adequate to support full tree size in the targeted forested wetland sections of Areas E and I, but the current stock of plants needs some attention to expedite the formation of the cover type.

Chart 10: Monthly precipitation measurements for the four monitoring years in comparison to the regional average

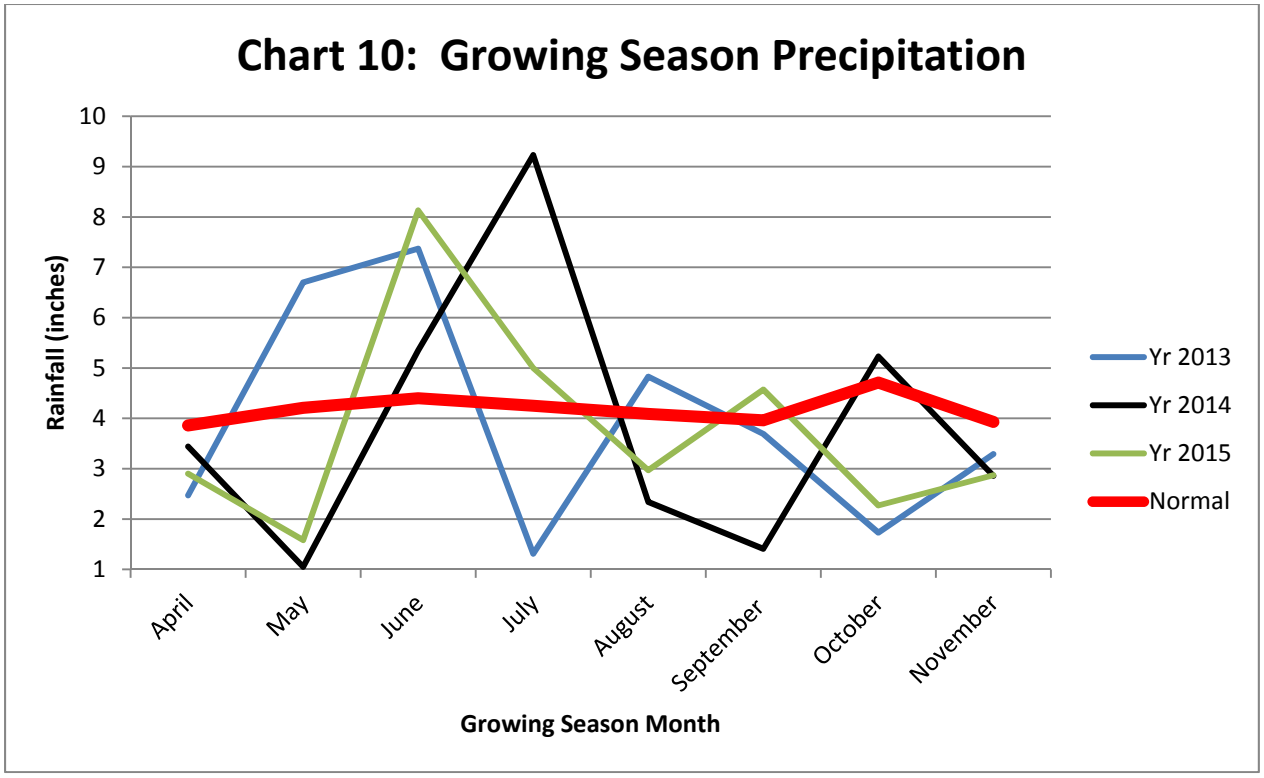
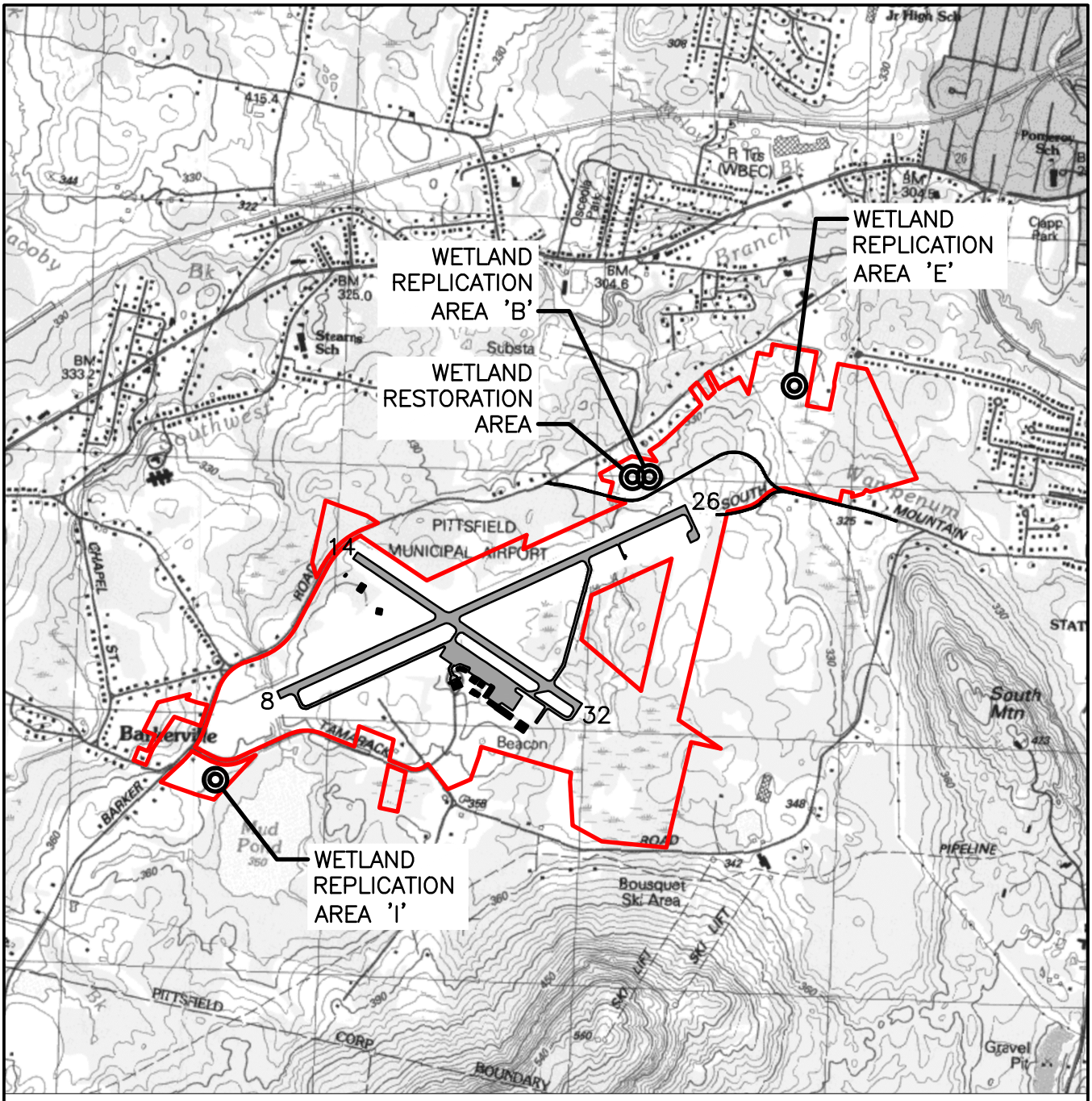


Table 10: Monthly Precipitation Data – 2013-2015*

Month	2013 Precipitation	Average Precipitation	Departure from Normal
April	2.47	3.86	-1.39
May	6.70	4.21	2.49
June	7.37	4.40	2.97
July	1.31	4.25	-2.94
August	4.83	4.09	0.74
September	3.69	3.96	-0.27
October	1.73	4.71	-2.98
November	3.29	3.93	-0.64
Average	31.39	33.41	-2.02
Month	**2014 Precipitation**	**Average Precipitation**	**Departure from Normal**
April	3.44	3.86	-0.42
May	1.05	4.21	-3.16
June	5.35	4.40	0.95
July	9.23	4.25	4.98
August	2.34	4.09	-1.75
September	1.41	3.96	-2.55
October	5.23	4.71	0.52
November	2.86	3.93	-1.07
Average	30.91	33.41	-2.50
Month	**2015 Precipitation**	**Average Precipitation**	**Departure from Normal**
April	2.90	3.86	-0.96
May	1.58	4.21	-2.63
June	8.13	4.40	3.73
July	5.00	4.25	0.75
August	2.97	4.09	-1.12
September	4.57	3.96	0.61
October	2.27	4.71	-2.44
November	2.87	3.93	-1.06
Average	30.29	33.41	-3.12

*All precipitation data collected from the National Oceanographic and Atmospheric Administration, (Pittsfield, MA station).

4.0 Figures



ORIGINAL SHEET - ANSI A

MARCH 2016
195210537

Client/Project
PITTSFIELD MUNICIPAL AIRPORT

Figure No.
1.0

Title
SITE PLAN

Stantec

Stantec Consulting Services Inc.
482 Payne Road
Scarborough ME 04074 U.S.A.
Tel. 207.883.3355
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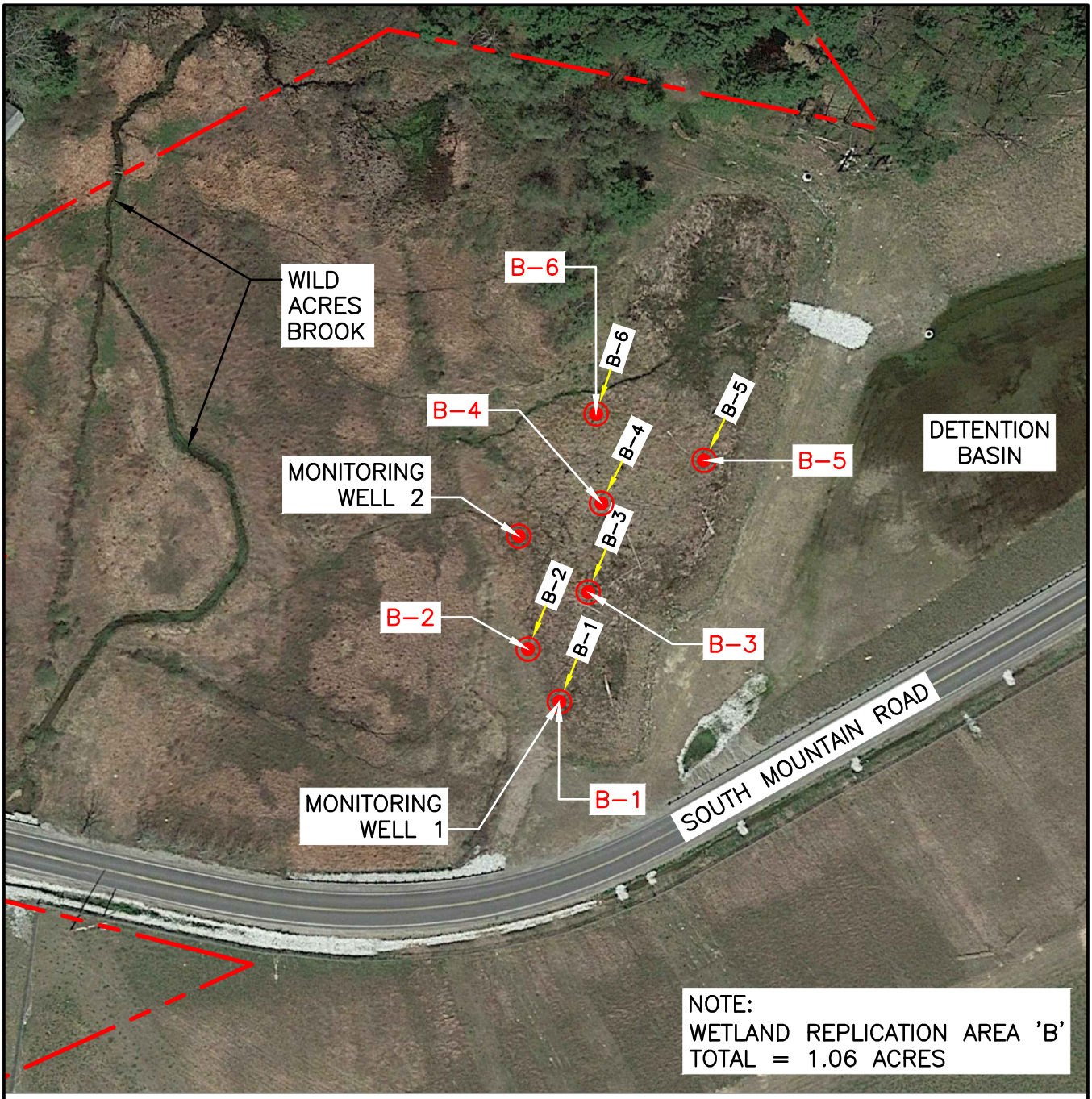

ORIGINAL SHEET - ANSI A

MARCH 2016
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Client/Project
PITTSFIELD MUNICIPAL AIRPORT

Figure No.
2.0

Title
WETLAND REPLICATION AREA 'B'
MONITORING PLOT LOCATIONS

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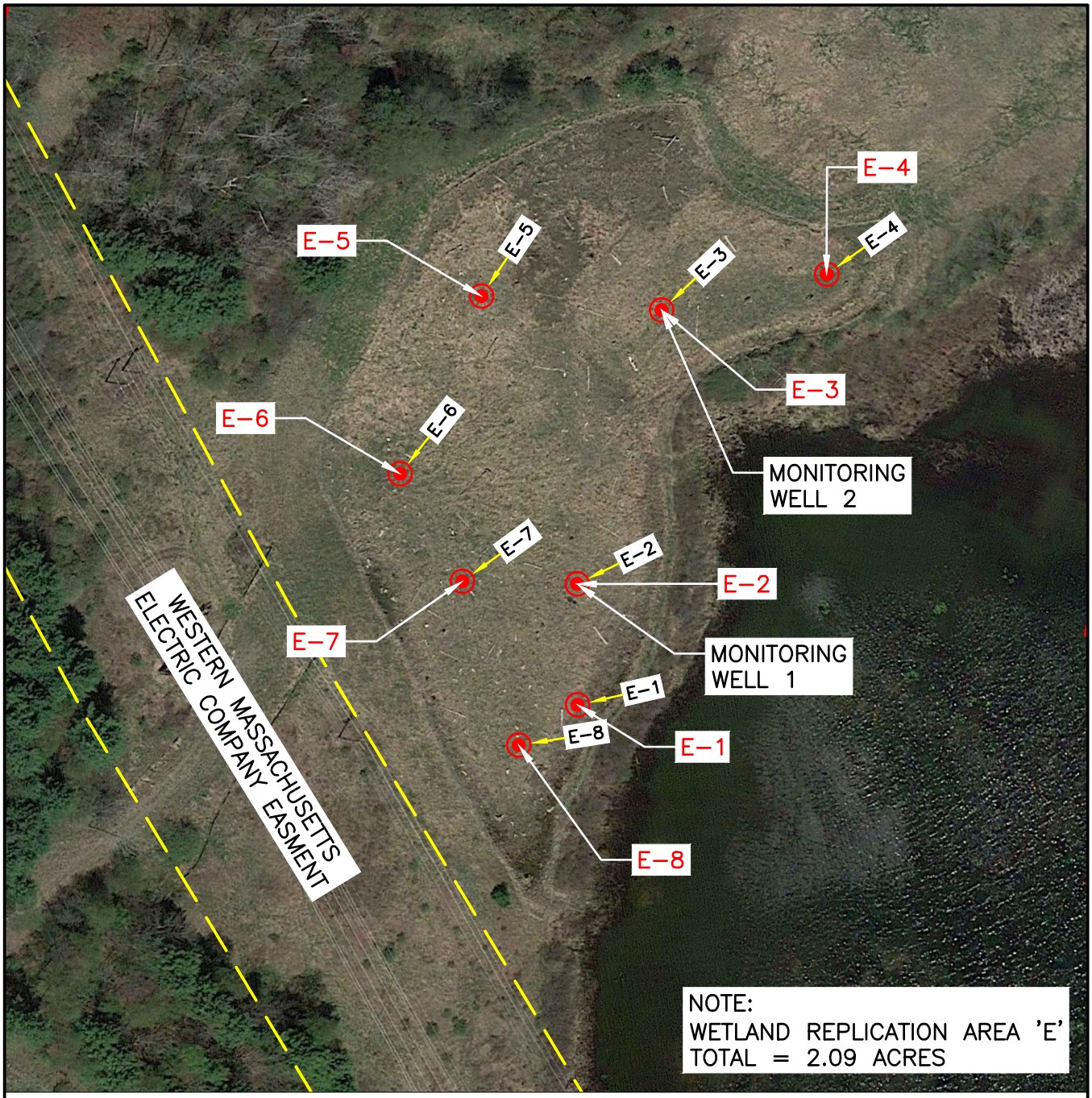

ORIGINAL SHEET - ANSI A

MARCH 2016
195210537

Client/Project
PITTSFIELD MUNICIPAL AIRPORT

Figure No.
3.0

Title
WETLAND REPLICATION AREA 'E'
MONITORING PLOT LOCATIONS

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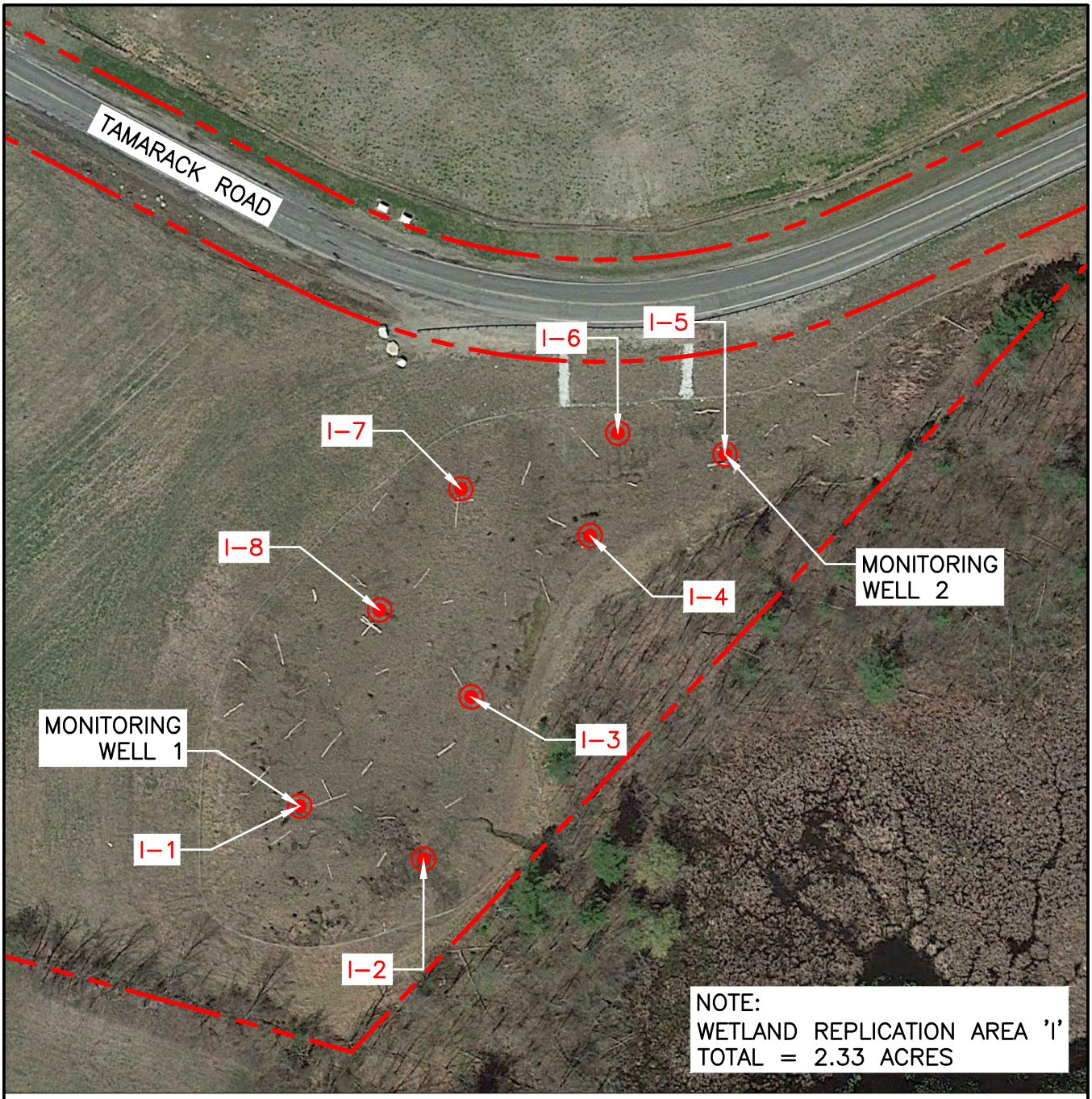

MARCH 2016
195210537

Client/Project
PITTSFIELD MUNICIPAL AIRPORT

Figure No.
4.0

Title
WETLAND REPLICATION AREA 'I'
MONITORING PLOT LOCATIONS

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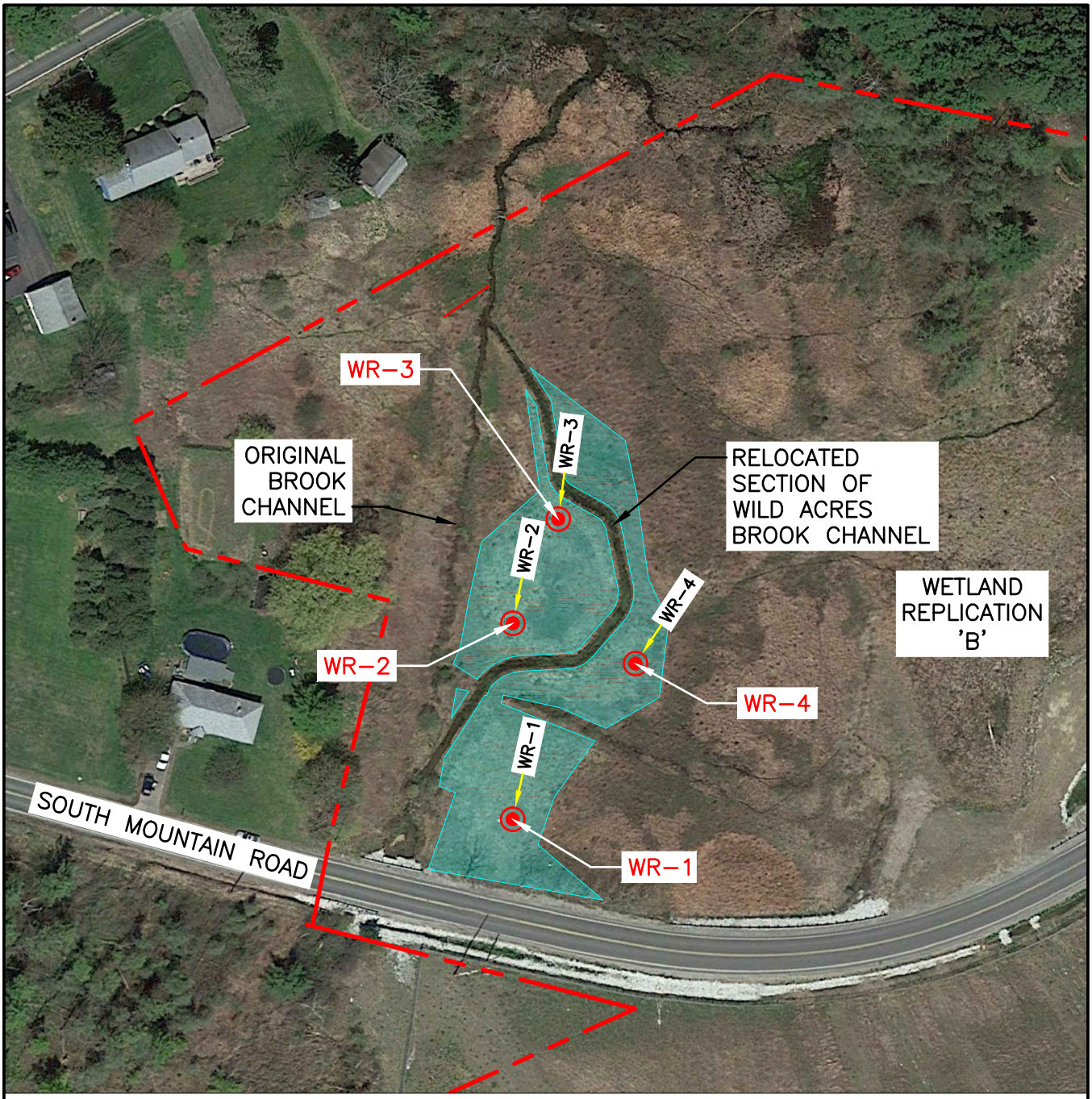

ORIGINAL SHEET - ANSI A

MARCH 2016
195210537

Client/Project
PITTSFIELD MUNICIPAL AIRPORT

Figure No.
5.0

Title
WETLAND RESOTRATION AREA MONITORING PLOT LOCATIONS

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5.0 Conclusions and Recommendations

The wetland replication areas (Areas B, E and I) at the Pittsfield Municipal Airport are successful in terms of the establishment of native wetland plant communities and a wetland hydrology. Site stabilization has been achieved, and there is no longer any need for erosion control barriers at the site locations. Groundcover coverages exceed 70% in the vegetated portions of the creation sites, and nursery stock shrub/sapling survivability has been adequate to date. Total vegetation coverage between the shrub and groundcover layers exceeds 100% for all monitoring plots. The site hydrology, as documented with the data logger program, appears suitable to create the intended wetland plant cover types in the terrestrial areas based on the full 2015 monitoring. 2014 and 2015 were drier than normal precipitation years as demonstrated in Table 10 and an "average" precipitation year is needed to clearly demonstrate success with the hydrology standard. Such results during a dry year bode well for the intended cover types.

Continued vertical and horizontal expansion of the shrub layer is needed to trend the site towards their intended cover types. Colonizing species are more apparent in the plot data, and the dominant species from the wetland seed mix are in the process of being replaced by naturally colonizing wetland species. Dominant herbaceous species include many that are considered to be calcareous species; a target of the replication area program. Of concern at Area B is the presence of purple loosestrife and the occurrence of Common Reed in the buffer at Areas E and I. Continued control of these species remains a recommendation. A detailed set of recommendations is provided in this report.

Compliance with the success standards set that was established for this site in the mitigation plan is demonstrated by the 2015 data. In particular, the hydrology and hydrophyte coverage standards have been substantially met. The shrub standard has been met for the sites but additional growth is necessary. The standard of 500 stems/acre has already been achieved. The invasives standard has been met by the sites, but will need further monitoring relative to Purple Loosestrife at Area B. The coverage of loosestrife is presently acceptable, but additional monitoring should be conducted to determine if beetle releases are necessary. Note that natural wetlands adjacent to Area B contain substantial loosestrife and Common Reed coverage.

The shrubs currently at each site have not reached full, mature size. With shrub coverages of about 10% in most of the plots, it is anticipated that over 50% cover is achievable at the sites within the next three years if growth rates improve. Our recommendations focus on continued management of invasives through herbicide use until the spread of woody species at each site has surpassed the 50% coverage. Some additional plantings and management of the existing woody stems is also recommended. With the anticipated spread of the present shrub composition at each site, it is estimated that both sites will contain a great shrub cover and better diversity than the reference wetlands, with a lower incidence of invasive species.

5.1 RECOMMENDATIONS SUMMARY

The following actions are recommended to continue the performance of the three wetland replication areas constructed for the Runway 8/26 safety area improvements at the Pittsfield Municipal Airport. These actions will protect and enhance the functioning of the sites and contribute towards the cover type objective of the mitigation plan.

1. European and Common Buckthorn control along the eastern edge of Area I is needed to control the rate of seedling colonization within that replication area. This eastern edge should be included on a future airport-wide herbicide effort.
2. Common Reed control in the buffer zone areas of Areas E and I needs to continue, along with spot treatment of actual Common Reed stems in the interior of Areas B and I. The cut-and-inject method applied during the Spring monitoring period (June) would be the optimal choice of controls at this stage of replication area development. The few stems within the actual replication areas are widely scattered and small, thus any other application methods has a higher chance of causing non-target mortality.
3. Low shrub stem density in portions of Areas E and I require additional shrub live-stake and sticker installations in the Fall (2016 and 2017). It is recommended that an additional 200 stems be installed within each of the two replication areas during each of the next two Fall periods. The species composition of the additional stakes/stickers should be roughly equal between Red Osier Dogwood, Gray Dogwood, Hoary Willow and Bebb Willow.
4. Low tree stem density in each of the three replication sites requires additional transplants from adjacent wetlands. Install 10 sapling transplants in each of the three sites in the Fall (2016). Species may include Tamarack, Eastern Hemlock, Red Maple, Box Elder or Swamp White Oak. Each transplant shall be appropriately tagged for the purpose of survivability monitoring.
5. Existing shrub and tree stems in Areas E and I require further maintenance. During each monitoring period, shrub and tree specimens should be relieved of encroaching (dense) herbaceous growth to decrease competition and expedite growth rates within the scrub-shrub and forested wetland cover types. This “freeing-up” of the prime nursery stock specimens has been practiced each year since the planting phase, and should be continued.
6. The need for further biological controls of Purple Loosestrife (*Lythrum salicaria*) should be evaluated in 2016 for Area B (and the adjacent Wild Acres Brook Wetland Restoration Area). Herbivory is evident on loosestrife at this site, and the extent should be further monitored in 2016 to determine if the herbivory is sufficient to control the observed loosestrife density. Significant loosestrife stands were present in this wetland system prior to the replication area construction. Work with the Connecticut Invasive Plant Working Group (CIPWG), University of Connecticut, Department of Plant Science, Unit 4163, Storrs, CT 06269-4163 at (860) 486-6448 to investigate the purchase of sufficient quantities for the sites if the evaluation finds a need for additional stock.

Appendix A Replication Areas B,E &I Monitoring Plot Data Forms

Monitoring Plot Identifier: B-1

Date: 10-22-12

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Invasive?	Hydric Indicator
		GC		%		
		GC		%		
		GC		%		
SHRUB COUNTS ONLY		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
Red Osier Dogwood	*Cornus sericea*	S	2	Stems		FACW+
Arrowwood	*Viburnum dentatum*	S	1	Stem		FAC
Speckled Alder	*Alnus incana*	S	1	Stem		FACW
Willow Sp.	*Salix sp.*	S	2	Stems		(FACW)
	GC % Cover	%				
	GC Invasives % Cover	%				
	GC Hydrophyte % Cover (non invasives only)	%				
	Native Shrub Stem Count	6				
	Invasive Shrub Stem Count	0				

Monitoring Plot Identifier: B-2

Date: 10-22-12

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Invasive?	Hydric Indicator
		GC		%		
		GC		%		
		GC		%		
		GC		%		
SHRUB COUNTS ONLY		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
Red Osier Dogwood	*Cornus sericea*	S	6	Stems		FACW+
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem		FACW
Speckled Alder	*Alnus incana*	S	4	Stem		FACW
Willow Sp.	*Salix sp.*	S	3	Stems		(FACW)
	GC % Cover	%				
	GC Invasives % Cover	%				
	GC Hydrophyte % Cover (non invasives only)	%				
	Native Shrub Stem Count	14				
	Invasive Shrub Stem Count	0				

Monitoring Plot Identifier: B-3

Date: 10-22-12

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Invasive?	Hydric Indicator
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
SHRUB COUNTS ONLY		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
No Shrubs IN 15' RADIUS					
	GC % Cover	%			
	GC Invasives % Cover	%			
	GC Hydrophyte % Cover (non invasives only)	%			
	Native Shrub Stem Count	0			
	Invasive Shrub Stem Count	0			

Monitoring Plot Identifier: B-4

Date: 10-22-12

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Invasive?	Hydric Indicator
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
Red Osier Dogwood	*Cornus sericea*	S	7	Stems		FACW+
Arrowwood	*Viburnum dentatum*	S	6	Stem		FAC
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem		FACW
Willow Sp.	*Salix sp.*	S	1	Stem		(FACW)
	GC % Cover	%				
	GC Invasives % Cover	%				
	GC Hydrophyte % Cover (non invasives only)	%				
	Native Shrub Stem Count	15				
	Invasive Shrub Stem Count	0				

Monitoring Plot Identifier: B-5

Photograph Taken? Y

Date: 10-22-12

Herbivory Noted? N

Staff: Kate Foley

Other Disturbance? N

Weather Conditions: Partly Cloudy mid 50's

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Invasive?	Hydric Indicator
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
Red Osier Dogwood	*Cornus sericea*	S	5	Stems		FACW+
Speckled Alder	*Alnus incana*	S	1	Stem		FACW
Willow Sp.	*Salix sp.*	S	2	Stems		(FACW)
	GC % Cover %					
	GC Invasives % Cover %					
	GC Hydrophyte % Cover (non invasives only)%					
	Native Shrub Stem Count 8					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: B-6

Date: 10-22-12

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Invasive?	Hydric Indicator
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
SHRUB COUNT ONLY		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
Arrowwood	*Viburnum dentatum*	S	4	Stems		FAC
Speckled Alder	*Alnus incana*	S	1	Stem		FACW
Willow Sp.	*Salix sp.*	S	26	Stems		(FACW)
	GC % Cover	%				
	GC Invasives % Cover	%				
	GC Hydrophyte % Cover (non invasives only)	%				
	Native Shrub Stem Count	31				
	Invasive Shrub Stem Count	0				

Monitoring Plot Identifier: B-1

Date: 06/20/13

Staff: Randy Christensen

Weather Conditions: Sunny, 70's, wet conditions

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft stemmed bulrush	*Schoenoplectus tabernaemontani*	GC	15	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	14	%	Y		OBL
Soft rush	*Juncus effusus*	GC	12	%	N		OBL
Common cattail	*Typha latifolia*	GC	7	%	N		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	6	%	N		OBL
Military rush	*Juncus militaris*	GC	4	%	N		OBL
Graceful sedge	*Carex gracillima*	GC	2	%	N		FACU
Purple loosestrife	*Lythrum salicaria*	GC	1	%	N	YES	FACW
Sphagnum moss	*Sphagnum sp.*	GC	1	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	5	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	2	Stems			FAC
Wild Raisin	*Viburnum nudum var. cassinoides*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	1	Stem			FACW
	GC % Cover	62 %					
	GC Invasives % Cover	2%					
	GC Hydrophyte % Cover (non invasives only)	95%					
	Native Shrub Stem Count	12					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: B-2

Date: 06/20/13

Staff: Randy Christensen

Weather Conditions: Sunny, 70's, wet conditions

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Joint leaved rush	*Juncus artculatus*	GC	20	%	Y		OBL
Soft rush	*Juncus effusus*	GC	15	%	Y		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	8	%	N		OBL
Redtop grass	*Agrostis gigantea*	GC	4	%	N		FACW
Crown vetch	*Securigera varia*	GC	4	%	N		NI
Red clover	*Trifolium pratense*	GC	3	%	N		FACU
Fox sedge	*Carex vulpinoidea*	GC	3	%	N		OBL
Boneset	*Eupatorium perfoliatum*	GC	2	%	N		FACW
Graceful sedge	*Carex gracillima*	GC	1	%	N		FACU
Purple loosestrife	*Lythrum salicaria*	GC	1	%	N	YES	OBL
Yarrow	*Achillea millefolium*	GC	1	%	N		FACU
Marsh St. John's Wort	*Triadenum virginicum*	GC	1	%	N		OBL
Arrowwood	*Viburnum dentatum*	S	6	Stems			FAC
Speckled Alder	*Alnus incana*	S	5	Stems			FACW
Cottonwood	*Populus deltoides*	S	3	Stems			FAC
Wild Raisin	*Viburnum nudum var cassinoides*	S	3	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW

GC % Cover	63	%
GC Invasives % Cover	2%	
GC Hydrophyte % Cover (non invasives only)	84%	
Native Shrub Stem Count	19	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-3

Date: 06/20/13

Staff: Randy Christensen

Weather Conditions: Sunny, 70's, wet conditions

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Common Cattail	*Typha latifolia*	GC	41	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	20	%	Y		OBL
Soft rush	*Juncus effusus*	GC	16	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	12	%	N	YES	OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	7	%	N		OBL
Boneset	*Eupatorium perfoliatum*	GC	2	%	N		FACW
Dark green bulrush	*Scirpus atrovirens*	GC	1	%	N		OBL
Graceful Sedge	*Carex gracillima*	GC	1	%	N		FACU
Fowl bluegrass	*Poa palustris*	GC	1	%	N		FACW
Bebb Willow	*Salix bebbiana*	S	2	Stems			FACW
Red osier dogwood	*Cornus sericea*	S	1	Stem			FACW
	GC % Cover	101 %					
	GC Invasives % Cover	12%					
	GC Hydrophyte % Cover (non invasives only)	87%					
	Native Shrub Stem Count	3					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: B-4

Date: 06/20/13

Staff: Randy Christensen

Weather Conditions: Sunny, 70's, wet conditions

Photograph Taken? Y

Herbivory Noted? Y

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	20	%	Y		OBL
Soft stemmed bulrush	*Schoenoplectus tabernaemontani*	GC	10	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	8	%	Y		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	6	%	N		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	6	%	N		OBL
Redtop grass	*Agrostis gigantea*	GC	5	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	4	%	N	YES	OBL
Graceful sedge	*Carex gracillima*	GC	4	%	N		FACU
Grass leaf goldenrod	*Euthamia graminifolia*	GC	2	%	N		FAC
Boneset	*Eupatorium perfoliatum*	GC	1	%	N		FACW
Coltsfoot	*Tussilago farfara*	GC	1	%	N	YES	FACU
Arrowwood	*Viburnum dentatum*	S	11	Stems			FAC
Bebb Willow	*Salix bebbiana*	S	7	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	4	Stems			FACW
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW
Cottonwood	*Populus deltoides*	S	1	Stem			FAC
Hoary Willow	*Salix candida*	S	1	Stem			OBL
	GC % Cover	67 %					
	GC Invasives % Cover	7%					
	GC Hydrophyte % Cover (non invasives only)	87%					
	Native Shrub Stem Count	25					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: B-5

Date: 06/20/13

Staff: Randy Christensen

Weather Conditions: Sunny, 70's, wet conditions

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	25	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	16	%	Y		OBL
Common cattail	*Typha latifolia*	GC	12	%	Y		OBL
Dark green bulrush	*Scirpus atrivrens*	GC	10	%	N		OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	8	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	8	%	N	YES	OBL
Redtop grass	*Agrostis gigantea*	GC	6	%	N		FACW
Fowl Bluegrass	*Poa palustris*	GC	6	%	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	4	%	N		FACW
Graceful sedge	*Carex gracillima*	GC	2	%	N		FACU
Soft stem bulrush	*Schoenoplectus tabernaemontani*	GC	2	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	3	Stems			FACW
Hoary Willow	*Salix candida*	S	2	Stems			OBL
Red Osier Dogwood	*Cornus sericea*	S	1	Stems			FACW
Speckled Alder	*Alnus incana*	S	1	Stem			FACW
	GC % Cover	99 %					
	GC Invasives % Cover	8%					
	GC Hydrophyte % Cover (non invasives only)	90%					
	Native Shrub Stem Count	7					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: B-6

Date: 06/20/13

Staff: Randy Christensen

Weather Conditions: Sunny, 70's, wet conditions

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	44	%	Y		OBL
Small white aster	*Symphyotrichum racemosum*	GC	26	%	Y		FACW
Late goldenrod	*Solidago gigantea*	GC	14	%	N		FACW
Boneset	*Eupatorium perfoliatum*	GC	12	%	N		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	12	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	9	%	N	YES	OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	6	%	N		FAC
Redtop grass	*Agrostis gigantea*	GC	6	%	N		FACW
Water dock	*Rumex orbiculatus*	GC	3	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	18	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Red osier dogwood	*Cornus sericea*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Pussy Willow	*Salix discolor*	S	1	Stem			FACW

GC % Cover	132	%
GC Invasives % Cover	7%	
GC Hydrophyte % Cover (non invasives only)	93%	
Native Shrub Stem Count	26	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-1

Photograph Taken? Y

Date: 10-11-13

Herbivory Noted? N

Staff: Randy Christensen & Kate Foley

Other Disturbance? N

Weather Conditions: Partly Cloudy mid 60's

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Joint leaved rush	*Juncus articulatus*	GC	35	%	Y		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	12	%	Y		OBL
Soft stemmed bulrush	*Schoenoplectus tabernaemontani*	GC	12	%	Y		OBL
Soft rush	*Juncus effusus*	GC	10	%	Y		OBL
Military rush	*Juncus militaris*	GC	9	%	N		OBL
Common cattail	*Typha latifolia*	GC	8	%	N		OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	8	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	7	%	N	YES	FACW
Purple leaved willow herb	*Epilobium coloratum*	GC	7	%	N		OBL
Graceful sedge	*Carex gracillima*	GC	6	%	N		FACU
Sphagnum moss	*Sphagnum sp.*	GC	5	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	5	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	2	Stems			FAC
Wild Raisin	*Viburnum nudum var. cassinoides*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	1	Stem			FACW

GC % Cover	119	%
GC Invasives % Cover	6%	
GC Hydrophyte % Cover (non invasives only)	89%	
Native Shrub Stem Count	12	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-2

Photograph Taken? Y

Date: 10-11-13

Herbivory Noted? N

Staff: Randy Christensen & Kate Foley

Other Disturbance? N

Weather Conditions: Partly Cloudy mid 60's

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Joint leaved rush	*Juncus artculatus*	GC	36	%	Y		OBL
Redtop grass	*Agrostis gigantea*	GC	12	%	Y		FACW
Soft rush	*Juncus effusus*	GC	12	%	Y		OBL
Boneset	*Eupatorium perfoliatum*	GC	7	%	N		FACW
Dark green bulrush	*Scirpus atrovirens*	GC	7	%	N		OBL
Crown vetch	*Securigera varia*	GC	7	%	N		NI
Grassleaf goldenrod	*Euthamia graminifolia*	GC	6	%	N		FAC
Graceful sedge	*Carex gracillima*	GC	6	%	N		FACU
Purple stemmed aster	*Symphyotrichum puniceum*	GC	4	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	3	%	N	YES	OBL
Red Clover	*Trifolium pratense*	GC	3	%	N		FACU
Fox sedge	*Carex vulpinoidea*	GC	3	%	N		OBL
Bluestem goldenrod	*Solidago caesia*	GC	3	%	N		FACU
Blue vervain	*Verbena hastata*	GC	2	%	N		FACW
New England aster	*Symphyotrichum novae-angliae*	GC	1	%	N		FACW
Yarrow	*Achillea millefolium*	GC	1	%	N		FACU
Marsh St. John's Wort	*Triadenum virginicum*	GC	1	%	N		OBL
Arrowwood	*Viburnum dentatum*	S	6	Stems			FAC
Speckled Alder	*Alnus incana*	S	5	Stems			FACW
Cottonwood	*Populus deltoides*	S	3	Stems			FAC
Wild Raisin	*Viburnum nudum var cassinoides*	S	3	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW

GC % Cover	114	%
GC Invasives % Cover	3%	
GC Hydrophyte % Cover (non invasives only)	80%	
Native Shrub Stem Count	19	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-3

Date: 10-11-13

Staff: Randy Christensen & Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Common Cattail	*Typha latifolia*	GC	45	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	38	%	Y		OBL
Purple loosestrife	*Lythrum salicaria*	GC	18	%	N	YES	OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	18	%	N		OBL
Soft rush	*Juncus effusus*	GC	12	%	N		OBL
Purple leaved willow herb	*Epilobium perfoliatum*	GC	6	%	N		OBL
Boneset	*Eupatorium perfoliatum*	GC	4	%	N		FACW
Blue vervain	*Verbena hastata*	GC	3	%	N		FACW
Dark green bulrush	*Scirpus atrovirens*	GC	2	%	N		OBL
Graceful Sedge	*Carex gracillima*	GC	2	%	N		FACU
Bebb Willow	*Salix bebbiana*	S	2	Stems			FACW
Red osier dogwood	*Cornus sericea*	S	1	Stem			FACW

GC % Cover	148	%
GC Invasives % Cover	12%	
GC Hydrophyte % Cover (non invasives only)	86%	
Native Shrub Stem Count	3	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-4

Date: 10-11-13

Staff: Randy Christensen and Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? Y

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Joint leaved rush	*Juncus articulatus*	GC	22	%	Y		OBL
Soft rush	*Juncus effusus*	GC	18	%	Y		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	14	%	Y		OBL
Soft stemmed bulrush	*Schoenoplectus tabernaemontani*	GC	12	%	Y		OBL
Grass leaf goldenrod	*Euthamia graminifolia*	GC	11	%	N		FAC
Purple loosestrife	*Lythrum salicaria*	GC	9	%	N	YES	OBL
Graceful sedge	*Carex gracillima*	GC	6	%	N		FACU
Redtop grass	*Agrostis gigantea*	GC	5	%	N		FACW
Dark green bulrush	*Scirpus atrovirens*	GC	4	%	N		OBL
Bluestem goldenrod	*Solidago caesia*	GC	4	%	N		FACU
Crown vetch	*Securigera varia*	GC	4	%	N		NI
Boneset	*Eupatorium perfoliatum*	GC	4	%	N		FACW
Coltsfoot	*Tussilago farfara*	GC	1	%	N	YES	FACU
Arrowwood	*Viburnum dentatum*	S	11	Stems			FAC
Bebb Willow	*Salix bebbiana*	S	7	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	4	Stems			FACW
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW
Cottonwood	*Populus deltoides*	S	1	Stem			FAC
Hoary Willow	*Salix candida*	S	1	Stem			OBL

GC % Cover	114	%
GC Invasives % Cover	9%	
GC Hydrophyte % Cover (non invasives only)	79%	
Native Shrub Stem Count	25	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-5

Date: 10-11-13

Staff: Randy Christensen & Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Joint leaved rush	*Juncus articulatus*	GC	26	%	Y		OBL
Soft rush	*Juncus effusus*	GC	23	%	Y		OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	22	%	Y		OBL
Dark green bulrush	*Scirpus atrivrens*	GC	12	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	11	%	N	YES	OBL
Purple leaved willow herb	*Epilobium coloratum*	GC	10	%	N		OBL
Common cattail	*Typha latifolia*	GC	9	%	N		OBL
Small white aster	*Symphyotrichum racemosum*	GC	6	%	N		FACW
Redtop grass	*Agrostis gigantea*	GC	4	%	N		FACW
Graceful sedge	*Carex gracillima*	GC	4	%	N		FACU
Fowl Bluegrass	*Poa palustris*	GC	3	%	N		FACW
Soft stem bulrush	*Schoenoplectus tabernaemontani*	GC	2	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	3	Stems			FACW
Hoary Willow	*Salix candida*	S	2	Stems			OBL
Red Osier Dogwood	*Cornus sericea*	S	1	Stems			FACW
Speckled Alder	*Alnus incana*	S	1	Stem			FACW

GC % Cover	132	%
GC Invasives % Cover	8%	
GC Hydrophyte % Cover (non invasives only)	89%	
Native Shrub Stem Count	7	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-6

Date: 10-11-13

Staff: Randy Christensen & Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	44	%	Y		OBL
Small white aster	*Symphyotrichum racemosum*	GC	26	%	Y		FACW
Late goldenrod	*Solidago gigantea*	GC	14	%	N		FACW
Boneset	*Eupatorium perfoliatum*	GC	12	%	N		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	12	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	9	%	N	YES	OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	6	%	N		FAC
Redtop grass	*Agrostis gigantea*	GC	6	%	N		FACW
Water dock	*Rumex orbiculatus*	GC	3	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	18	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Red osier dogwood	*Cornus sericea*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Pussy Willow	*Salix discolor*	S	1	Stem			FACW

GC % Cover	132	%
GC Invasives % Cover	7%	
GC Hydrophyte % Cover (non invasives only)	93%	
Native Shrub Stem Count	26	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-1

Date: 07-01-14

Staff: Randy Christensen

Weather Conditions: Sunny, high 80's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	25	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	21	%	Y		OBL
Purple loosestrife	*Lythrum salicaria*	GC	15	%	Y	YES	OBL
Soft stemmed bulrush	*Schoenoplectus tabernaemontani*	GC	12	%	Y		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	12	%	Y		OBL
American spikerush	*Eleocharis palustris*	GC	10	%	N		OBL
Military rush	*Juncus militaris*	GC	10	%	N		OBL
Common cattail	*Typha latifolia*	GC	10	%	N		OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	6	%	N		OBL
Lurid sedge (Shallow sedge)	*Carex lurida*	GC	5	%	N		FACW
Purple leaved willow herb	*Epilobium coloratum*	GC	2	%	N		OBL
Graceful sedge	*Carex gracillima*	GC	1	%	N		FACU
Sphagnum moss	*Sphagnum sp.*	GC	1	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	4	Stems			FACW
Wild Raisin	*Viburnum nudum var. cassinoides*	S	3	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	2	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Speckled Alder	*Alnus incana*	S	1	Stem			FACW

GC % Cover	130	%
GC Invasives % Cover	12%	
GC Hydrophyte % Cover (non invasives only)	88%	
Native Shrub Stem Count	11	
Invasive Shrub Stem Count	0	

Notes

Monitoring Plot Identifier: B-2

Date: 07-01-14

Staff: Randy Christensen

Weather Conditions: Sunny, high 80's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Joint leaved rush	*Juncus artculatus*	GC	20	%	Y		OBL
Soft rush	*Juncus effusus*	GC	20	%	Y		OBL
Redtop grass	*Agrostis gigantea*	GC	18	%	Y		FACW
Boneset	*Eupatorium perfoliatum*	GC	6	%	N		FACW
Dark green bulrush	*Scirpus atrovirens*	GC	6	%	N		OBL
Fox sedge	*Carex vulpinoidea*	GC	6	%	N		OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	5	%	N		FAC
Purple loosestrife	*Lythrum salicaria*	GC	5	%	N	YES	OBL
Lurid Sedge	*Carex lurida*	GC	3	%	N		FACW
Crown vetch	*Securigera varia*	GC	2	%	N		NI
Red Clover	*Trifolium pratense*	GC	2	%	N		FACU
Purple stemmed aster	*Symphyotrichum puniceum*	GC	1	%	N		OBL
Bluestem goldenrod	*Solidago caesia*	GC	1	%	N		FACU
Graceful sedge	*Carex gracillima*	GC	1	%	N		FACU
Blue vervain	*Verbena hastata*	GC	1	%	N		FACW
Speckled Alder	*Alnus incana*	S	5	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	5	Stems			FAC
Cottonwood	*Populus deltoides*	S	3	Stems			FAC
Wild Raisin	*Viburnum nudum var cassinoides*	S	3	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW

Notes

GC % Cover	97	%
GC Invasives % Cover	5%	
GC Hydrophyte % Cover (non invasives only)	89%	
Native Shrub Stem Count	18	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-3

Date: 07-01-14

Staff: Randy Christensen

Weather Conditions: Sunny, high 80's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Common cattail	*Typha latifolia*	GC	41	%	Y		OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	21	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	15	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	15	%	N	YES	OBL
Soft rush	*Juncus effusus*	GC	10	%	N		OBL
Boneset	*Eupatorium perfoliatum*	GC	6	%	N		FACW
Blue vervain	*Verbena hastata*	GC	6	%	N		FACW
Purple leaved willow herb	*Epilobium perfoliatum*	GC	3	%	N		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	3	%	N		OBL
American burr-reed	*Sparganium americanum*	GC	2	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	2	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW

Notes

GC % Cover	122	%
GC Invasives % Cover	12%	
GC Hydrophyte % Cover (non invasives only)	88%	
Native Shrub Stem Count	3	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-4

Photograph Taken? Y

Date: 07-01-14

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions: Sunny, high 80's

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Junus effusus*	GC	22	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	16	%	Y		OBL
Grass leaf goldenrod	*Euthamia graminifolia*	GC	15	%	Y		FAC
Purple loosestrife	*Lythrum salicaria*	GC	12	%	Y	YES	OBL
Dark green bulrush	*Scirpus atrovirens*	GC	12	%	Y		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	8	%	N		OBL
Graceful sedge	*Carex gracillima*	GC	6	%	N		FACU
Redtop grass	*Agrostis gigantea*	GC	5	%	N		FACW
Bluestem goldenrod	*Solidago caesia*	GC	4	%	N		FACU
Boneset	*Eupatorium perfoliatum*	GC	4	%	N		FACW
Soft stemmed bulrush	*Schoenoplectus tabernaemontani*	GC	3	%	N		OBL
Crown vetch	*Securigera varia*	GC	1	%	N		NI
Coltsfoot	*Tussilago farfara*	GC	1	%	N	YES	FACU
Arrowwood	*Viburnum dentatum*	S	10	Stems			FAC
Bebb Willow	*Salix bebbiana*	S	7	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	4	Stems			FACW
Cottonwood	*Populus deltoides*	S	2	Stems			FAC
Hoary Willow	*Salix candida*	S	2	Stems			OBL
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW

Notes

GC % Cover	109	%
GC Invasives % Cover	12%	
GC Hydrophyte % Cover (non invasives only)	78%	
Native Shrub Stem Count	26	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-5

Date: 07-01-14

Staff: Randy Christensen

Weather Conditions: Sunny, high 80's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	28	%	Y		OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	20	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	15	%	Y		OBL
Purple loosestrife	*Lythrum salicaria*	GC	15	%	Y	YES	OBL
Dark green bulrush	*Scirpus atrivrens*	GC	10	%	N		OBL
Purple leaved willow herb	*Epilobium coloratum*	GC	6	%	N		OBL
Common cattail	*Typha latifolia*	GC	5	%	N		OBL
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
Redtop grass	*Agrostis gigantea*	GC	2	%	N		FACW
Graceful sedge	*Carex gracillima*	GC	2	%	N		FACU
Fowl bluegrass	*Poa palustris*	GC	1	%	N		FACW
Joe-pye weed	*Eutrochium maculatum*	GC	1	%	N		FAC
Bebb Willow	*Salix bebbiana*	S	3	Stems			FACW
Hoary Willow	*Salix candida*	S	2	Stems			OBL
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Speckled Alder	*Alnus incana*	S	1	Stem			FACW

GC % Cover	110	%
GC Invasives % Cover	14%	
GC Hydrophyte % Cover (non invasives only)	89%	
Native Shrub Stem Count	7	
Invasive Shrub Stem Count	0	

Notes:

Monitoring Plot Identifier: B-6

Date: 07-01-14

Staff: Randy Christensen

Weather Conditions: sunny, high 80's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	25	%	Y		OBL
Small white aster	*Symphyotrichum racemosum*	GC	20	%	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	18	%	Y		OBL
Late goldenrod	*Solidago gigantea*	GC	15	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	10	%	N	YES	OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	10	%	N		FAC
Boneset	*Eupatorium perfoliatum*	GC	8	%	N		FACW
Tearthumb	*Polygonum saggitatum*	GC	5	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	24	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Red osier dogwood	*Cornus sericea*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Pussy Willow	*Salix discolor*	S	2	Stems			FACW
	GC % Cover	111 %	33				
	GC Invasives % Cover	9%					
	GC Hydrophyte % Cover (non invasives only)	91%					
	Native Shrub Stem Count	33					
	Invasive Shrub Stem Count	0					
Notes:							

Monitoring Plot Identifier: B-1

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly cloudly, 60's light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Joint leaved rush	*Juncus articulatus*	GC	30	%	Y		OBL
Soft rush	*Juncus effusus*	GC	26	%	Y		OBL
Soft stemmed bulrush	*Schoenoplectus tabernaemontani*	GC	15	%	Y		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	12	%	Y		OBL
Purple loosestrife	*Lythrum salicaria*	GC	12	%	Y	YES	OBL
American spikerush	*Eleocharis palustris*	GC	12	%	Y		OBL
Military rush	*Juncus militaris*	GC	9	%	N		OBL
Common cattail	*Typha latifolia*	GC	8	%	N		OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	6	%	N		OBL
Purple leaved willow herb	*Epilobium coloratum*	GC	5	%	N		OBL
Lurid sedge (Shallow sedge)	*Carex lurida*	GC	5	%	N		FACW
Graceful sedge	*Carex gracillima*	GC	2	%	N		FACU
Sphagnum moss	*Sphagnum sp.*	GC	2	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	4	Stems			FACW
Wild Raisin	*Viburnum nudum var. cassinoides*	S	3	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	2	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Speckled Alder	*Alnus incana*	S	1	Stem			FACW

GC % Cover	144	%
GC Invasives % Cover	8%	
GC Hydrophyte % Cover (non invasives only)	90%	
Native Shrub Stem Count	11	
Invasive Shrub Stem Count	0	

Notes

Purple Loosestrife 31 stems

Saturated to the surface

Monitoring Plot Identifier: B-2

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly Cloudy, 60's light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Joint leaved rush	*Juncus artculatus*	GC	18	%	Y		OBL
Redtop grass	*Agrostis gigantea*	GC	15	%	Y		FACW
Soft rush	*Juncus effusus*	GC	15	%	Y		OBL
Boneset	*Eupatorium perfoliatum*	GC	7	%	Y		FACW
Dark green bulrush	*Scirpus atrovirens*	GC	7	%	Y		OBL
Crown vetch	*Securigera varia*	GC	7	%	Y		NI
Grassleaf goldenrod	*Euthamia graminifolia*	GC	5	%	N		FAC
Fox sedge	*Carex vulpinoidea*	GC	5	%	N		OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	3	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	3	%	N	YES	OBL
Red Clover	*Trifolium pratense*	GC	3	%	N		FACU
Bluestem goldenrod	*Solidago caesia*	GC	3	%	N		FACU
Graceful sedge	*Carex gracillima*	GC	2	%	N		FACU
Blue vervain	*Verbena hastata*	GC	2	%	N		FACW
Lurid Sedge	*Carex lurida*	GC	2	%	N		FACW
New England aster	*Symphyotrichum novae-angliae*	GC	1	%	N		FACW
Yarrow	*Achillea millefolium*	GC	1	%	N		FACU
Marsh St. John's Wort	*Triadenum virginicum*	GC	1	%	N		OBL
Speckled Alder	*Alnus incana*	S	5	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	5	Stems			FAC
Cottonwood	*Populus deltoides*	S	3	Stems			FAC
Wild Raisin	*Viburnum nudum var cassinoides*	S	3	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW

Notes

* Saturated to surface

Purple loosestrife 7 stems

GC % Cover	100	%
GC Invasives % Cover	3%	
GC Hydrophyte % Cover (non invasives only)	81%	
Native Shrub Stem Count	18	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-3

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly Cloudy, 60's light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Common cattail	*Typha latifolia*	GC	45	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	24	%	Y		OBL
Purple loosestrife	*Lythrum salicaria*	GC	18	%	Y	YES	OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	18	%	Y		OBL
Soft rush	*Juncus effusus*	GC	8	%	N		OBL
Purple leaved willow herb	*Epilobium perfoliatum*	GC	6	%	N		OBL
Boneset	*Eupatorium perfoliatum*	GC	6	%	N		FACW
Blue vervain	*Verbena hastata*	GC	5	%	N		FACW
Dark green bulrush	*Scirpus atrovirens*	GC	5	%	N		OBL
American burr-reed	*Sparganium americanum*	GC	3	%	N		OBL
Graceful sedge	*Carex gracillima*	GC	2	%	N		FACU
Bebb Willow	*Salix bebbiana*	S	2	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW

Notes

Inundated to 1"

Purple loosestrife 61 stems

GC % Cover	140	%
GC Invasives % Cover	13%	
GC Hydrophyte % Cover (non invasives only)	86%	
Native Shrub Stem Count	3	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-4

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly Cloudy, mid 60's, light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Junus effusus*	GC	22	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	16	%	Y		OBL
Grass leaf goldenrod	*Euthamia graminifolia*	GC	15	%	Y		FAC
Purple loosestrife	*Lythrum salicaria*	GC	12	%	Y	YES	OBL
Dark green bulrush	*Scirpus atrovirens*	GC	12	%	Y		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	8	%	N		OBL
Graceful sedge	*Carex gracillima*	GC	6	%	N		FACU
Redtop grass	*Agrostis gigantea*	GC	5	%	N		FACW
Bluestem goldenrod	*Solidago caesia*	GC	4	%	N		FACU
Boneset	*Eupatorium perfoliatum*	GC	4	%	N		FACW
Soft stemmed bulrush	*Schoenoplectus tabernaemontani*	GC	3	%	N		OBL
Crown vetch	*Securigera varia*	GC	1	%	N		NI
Coltsfoot	*Tussilago farfara*	GC	1	%	N	YES	FACU
Arrowwood	*Viburnum dentatum*	S	10	Stems			FAC
Bebb Willow	*Salix bebbiana*	S	7	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	4	Stems			FACW
Cottonwood	*Populus deltoides*	S	2	Stem			FAC
Hoary Willow	*Salix candida*	S	2	Stem			OBL
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW

Notes

Saturated at 3"

Purple loosestrife 31 stems

GC % Cover	109	%
GC Invasives % Cover	12%	
GC Hydrophyte % Cover (non invasives only)	78%	
Native Shrub Stem Count	26	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-5

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly Cloudy, mid 60's, light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	26	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	18	%	Y		OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	18	%	Y		OBL
Dark green bulrush	*Scirpus atrivrens*	GC	12	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	12	%	N	YES	OBL
Purple leaved willow herb	*Epilobium coloratum*	GC	10	%	N		OBL
Common cattail	*Typha latifolia*	GC	7	%	N		OBL
Small white aster	*Symphyotrichum racemosum*	GC	6	%	N		FACW
Redtop grass	*Agrostis gigantea*	GC	4	%	N		FACW
Graceful sedge	*Carex gracillima*	GC	4	%	N		FACU
Fowl bluegrass	*Poa palustris*	GC	3	%	N		FACW
Joe-pye weed	*Eutrochium maculatum*	GC	2	%	N		FAC
Bebb Willow	*Salix bebbiana*	S	3	Stems			FACW
Hoary Willow	*Salix candida*	S	2	Stems			OBL
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Speckled Alder	*Alnus incana*	S	1	Stem			FACW

GC % Cover	122	%
GC Invasives % Cover	10%	
GC Hydrophyte % Cover (non invasives only)	87%	
Native Shrub Stem Count	7	
Invasive Shrub Stem Count	0	

Notes:

Purple lossestrife 18 stems

Monitoring Plot Identifier: B-6

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly Cloudy, mid 60's, light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	28	%	Y		OBL
Small white aster	*Symphyotrichum racemosum*	GC	28	%	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	15	%	N		OBL
Late goldenrod	*Solidago gigantea*	GC	12	%	N		FACW
Boneset	*Eupatorium perfoliatum*	GC	10	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	9	%	N	YES	OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	6	%	N		FAC
Redtop grass	*Agrostis gigantea*	GC	3	%	N		FACW
Water dock	*Rumex orbiculatus*	GC	1	%	N		NI
Bebb Willow	*Salix bebbiana*	S	22	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Red osier dogwood	*Cornus sericea*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Pussy Willow	*Salix discolor*	S	1	Stem			FACW
	GC % Cover 112 %		30				
	GC Invasives % Cover 8%						
	GC Hydrophyte % Cover (non invasives only)	91%					
	Native Shrub Stem Count 30						
	Invasive Shrub Stem Count 0						

Notes:

Purple loosestrife 22 stems

Monitoring Plot Identifier: B-1	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover	Dominant	Invasive?	Hydric Indicator
Spike rush	*Eleocharis palustris*	GC		54 %	Y		OBL
Soft rush	*Juncus effusus*	GC		12 %	N		OBL
Soft stem bulrush	*Scirpus validus*	GC		9 %	N		OBL
Lurid sedge	*Carex lurida*	GC		4 %	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	11	4 %	N	YES	OBL
Path rush	*Juncus tenuis*	GC		4 %	N		FAC
Water horsetail	*Equisetum fluviatile*	GC		3 %	N		OBL
Common cattail	*Typha latifolia*	GC		2 %	N		OBL
Wool grass	*Scirpus cyperinus*	GC		2 %	N		OBL
Boneset	*Eupatorium perfoliatum*	GC		1 %	N		FACW
Marsh St. Johns wort	*Hypericum perforatum*	GC		1 %	N		UPL
Fox sedge	*Carex vulpinoidea*	GC		1 %	N		OBL
Speckled Alder	*Alnus incana*	S	1	3 %	Y		FACW
Willow	*Salix sp.*	S	6	3 %	Y		FACW
Southern Wild Raisin	*Viburnum nudum*	S	2	3 %	Y		FACW
Arrowwood	*Viburnum dentatum*	S	1	2 %	N		FAC
Red Osier Dogwood	*Cornus sericea*	S	2	2 %	N		FACW
Cottonwood	*Populus deltoides*	S	1	1 %	N		FAC
	GC % Cover	97 %					
	GC Invasives % Cover	4%					
	GC Hydrophyte % Cover (non invasives only)	95%					
	S % Cover	14 %					
	Native Shrub Stem Count	13					
	Invasive Shrub Stem Count	0					

Notes

Monitoring Plot Identifier: B-2	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC		32	%	Y		OBL
Bedstraw	*Galium mollugo*	GC		12	%	Y		FACU
Fox sedge	*Carex vulpinoidea*	GC		6	%	N		OBL
Bird's foot trefoil	*Lotus corniculatus*	GC		6	%	N		FACU
Fowl bluegrass	*Poa palustris*	GC		4	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	8	3	%	N	YES	OBL
New York aster	*Symphyotrichum novi-belgii*	GC		3	%	N		FACW
Wool grass	*Scirpus cyperinus*	GC		2	%	N		OBL
Umbrella sedge	*Cyperus strigosus*	GC		2	%	N		OBL
Greater bladder sedge	*Carex intumescens*	GC		1	%	N		FACW
Grass-leaved goldenrod	*Euthamia graminifolia*	GC		1	%	N		FAC
Willow seedlings	*Salix sp.*	GC		1	%	N		FACW
Willow	*Salix sp.*	S	2	24	%	Y		FACW
Speckled alder	*Alnus incana*	S	4	12	%	Y		FACW
Arrowwood	*Viburnum dentatum*	S	6	10	%	N		FAC
Southern Wild Raisin	*Viburnum nudum*	S	3	8	%	N		FACW
	GC % Cover	73 %						
	GC Invasives % Cover	4%						
	GC Hydrophyte % Cover (non invasives only)	71%						
	S % Cover	54 %						
	Native Shrub Stem Count	15						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: B-3	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Common cattail	*Typha latifolia*	GC		28	%	Y		OBL
Spike rush	*Eleocharis palustris*	GC		28	%	Y		OBL
New York aster	*Symphyotrichum novi-belgii*	GC		12	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	19	8	%	N	YES	OBL
Soft rush	*Juncus effusus*	GC		7	%	N		OBL
Narrow-leaf arrowhead	*Sagittaria filiformis*	GC		2	%	N		OBL
Boneset	*Eupatorium perfoliatum*	GC		2	%	N		FACW
Willow	*Salix sp.*	S	1	2	%	Y		FACW
	GC % Cover	87 %						
	GC Invasives % Cover	9%						
	GC Hydrophyte % Cover (non invasives only)	91%						
	S % Cover	2 %						
	Native Shrub Stem Count	1						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: B-4	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC		24	%	Y		OBL
Fox sedge	*Carex vulpinoidea*	GC		10	%	Y		OBL
Wool grass	*Scirpus cyperinus*	GC		6	%	N		OBL
Lurid sedge	*Carex lurida*	GC		6	%	N		OBL
Path rush	*Juncus tenuis*	GC		5	%	N		FAC
New York aster	*Symphyotrichum novi-belgii*	GC		4	%	N		FACW
Purple vetch	*Vicia sativa*	GC		3	%	N		FACU
Rough goldenrod	*Solidago rugosa*	GC		2	%	N		FAC
Water horsetail	*Equisetum fluviatile*	GC		2	%	N		OBL
Fowl bluegrass	*Poa palustris*	GC		2	%	N		OBL
Bedstraw	*Galium mollugo*	GC		1	%	N		FACU
Willow seedlings	*Salix sp.*	GC		1	%	N		FACW
Soft stem bulrush	*Schoenoplectus tabernaemontani*	GC		1	%	N		OBL
Willow	*Salix sp.*	S	26	28	%	Y		FACW
Arrowwood	*Viburnum dentatum*	S	5	6	%	N		FAC
Southern Wild Raisin	*Viburnum nudum*	S	1	2	%	N		FACW
Green ash	*Fraxinus pennsylvanica*	S	1	2	%	N		FACW
Red Osier Dogwood	*Cornus sericea*	S	1	1	%	N		FACW
	GC % Cover	67 %						
	GC Invasives % Cover	0%						
	GC Hydrophyte % Cover (non invasives only)	94%						
	S % Cover	39 %						
	Native Shrub Stem Count	34						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: B-5	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC		35	%	Y		OBL
New York aster	*Symphyotrichum novi-belgii*	GC		18	%	Y		FACW
Spike rush	*Eleocharis palustris*	GC		6	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	13	6	%	N	YES	OBL
Common cattail	*Typha latifolia*	GC		5	%	N		OBL
Tall goldenrod	*Solidago altissima*	GC		3	%	N		FACU
Lurid sedge	*Carex lurida*	GC		2	%	N		OBL
Fox sedge	*Carex vulpinoidea*	GC		2	%	N		OBL
Round-leaf goldenrod	*Solidago patula*	GC		1	%	N		OBL
Willow	*Salix sp.*	S	7	12	%	Y		FACW
Speckled alder	*Alnus incana*	S	1	2	%	N		FACW
Red osier dogwood	*Cornus sericea*	S	1	2	%	N		FACW
	GC % Cover	78 %						
	GC Invasives % Cover	8%						
	GC Hydrophyte % Cover (non invasives only)	88%						
	S % Cover	16 %						
	Native Shrub Stem Count	9						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: B-6	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover	Percent Dominance	Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC		38	%	Y		OBL
New York aster	*Symphyotrichum novi-belgii*	GC		12	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	19	9	%	N	YES	OBL
Tall goldenrod	*Solidago altissima*	GC		2	%	N		FACU
Wool grass	*Scirpus cyperinus*	GC		2	%	N		OBL
Bedstraw	*Galium mollugo*	GC		2	%	N		FACU
Colt's foot	*Tussilago farfara*	GC		1	%	N		FACU
Purple vetch	*Vicia sativa*	GC		1	%	N	YES	FACU
Willow	*Salix sp.*	S	41	85	%	Y		FACW
Speckled alder	*Alnus incana*	S	2	6	%	N		FACW
Silky dogwood	*Cornus amomum*	S	4	4	%	N		FACW
Arrowwood	*Viburnum dentatum*	S	3	3	%	N		FAC
	GC % Cover	67 %						
	GC Invasives % Cover	15%						
	GC Hydrophyte % Cover (non invasives only)	78%						
	S % Cover	98 %						
	Native Shrub Stem Count	50						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: B-1

Date: 09-24-15

Staff: Randy Christensen

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	28	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	24	%	Y		OBL
American spikerush	*Eleocharis palustris*	GC	21	%	Y		OBL
Military rush	*Juncus militaris*	GC	15	%	N		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	10	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	10	%	N	YES	FACW
Common cattail	*Typha latifolia*	GC	8	%	N		OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	6	%	N		OBL
Purple leaved willow herb	*Epilobium coloratum*	GC	5	%	N		OBL
Lurid sedge	*Carex lurida*	GC	5	%	N		OBL
Soft stemmed bulrush	*Schoenoplectus tabernaemontani*	GC	2	%	N		OBL
Graceful sedge	*Carex gracillima*	GC	2	%	N		FACU
Sphagnum moss	*Sphagnum sp.*	GC	2	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	6	Stems			FACW
Wild Raisin	*Viburnum nudum var. cassinoides*	S	3	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	2	Stems			FAC
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW

GC % Cover	138	%
GC Invasives % Cover	7%	
GC Hydrophyte % Cover (non invasives only)	91%	
Native Shrub Stem Count	14	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: B-2

Photograph Taken? Y

Date: 09-24-15

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Joint leaved rush	*Juncus artculatus*	GC	15	%	Y		OBL
Soft rush	*Juncus effusus*	GC	15	%	Y		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	12	%	Y		OBL
Redtop grass	*Agrostis gigantea*	GC	8	%	Y		FACW
Fox sedge	*Carex vulpinoidea*	GC	7	%	N		OBL
Boneset	*Eupatorium perfoliatum*	GC	5	%	N		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	5	%	N		FAC
Crown vetch	*Securigera varia*	GC	3	%	N		NI
Purple stemmed aster	*Symphyotrichum puniceum*	GC	3	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	3	%	N	YES	OBL
Graceful sedge	*Carex gracillima*	GC	2	%	N		FACU
Red clover	*Trifolium pratense*	GC	2	%	N		FACU
Bluestem goldenrod	*Solidago caesia*	GC	2	%	N		FACU
Blue vervain	*Verbena hastata*	GC	2	%	N		FACW
New England aster	*Symphyotrichum novae-angliae*	GC	2	%	N		FACW
Speckled Alder	*Alnus incana*	S	5	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	4	Stems			FAC
Wild Raisin	*Viburnum nudum var cassinoides*	S	3	Stems			FACW
Willow	*Salix sp.*	S	3	Stems			FACW
Cottonwood	*Populus deltoides*	S	2	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW

GC % Cover	86	%
GC Invasives % Cover	3%	
GC Hydrophyte % Cover (non invasives only)	86%	
Native Shrub Stem Count	19	
Invasive Shrub Stem Count	0	

Notes:
Purple loosestrife 8 stems

Monitoring Plot Identifier: B-3

Photograph Taken? Y

Date: 09-24-15

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions: Partly Cloudy mid 60's

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Common cattail	*Typha latifolia*	GC	27	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	24	%	Y		OBL
Purple loosestrife	*Lythrum salicaria*	GC	18	%	Y	YES	OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	8	%	N		OBL
Boneset	*Eupatorium perfoliatum*	GC	8	%	N		FACW
Dark green bulrush	*Scirpus atrovirens*	GC	8	%	N		OBL
Soft rush	*Juncus effusus*	GC	6	%	N		OBL
Purple leaved willow herb	*Epilobium perfoliatum*	GC	6	%	N		OBL
American burr-reed	*Sparganium americanum*	GC	6	%	N		OBL
Blue vervain	*Verbena hastata*	GC	3	%	N		FACW
Graceful sedge	*Carex gracillima*	GC	2	%	N		FACU
Bebb Willow	*Salix bebbiana*	S	3	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW

GC % Cover	116	%
GC Invasives % Cover	16%	
GC Hydrophyte % Cover (non invasives only)	83%	
Native Shrub Stem Count	4	
Invasive Shrub Stem Count	0	

Notes:
Purple loosestrife 27 stems

Monitoring Plot Identifier: B-4

Date: 09-24-15

Staff: Randy Christensen

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	28	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	12	%	Y		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	12	%	Y		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	12	%	Y		OBL
Soft stemmed bulrush	*Schoenoplectus tabernaemontani*	GC	8	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	8	%	N	YES	OBL
Grass leaf goldenrod	*Euthamia graminifolia*	GC	6	%	N		FAC
Panic grass	*Agrostis stolonifera*	GC	5	%	N		FACW
Bluestem goldenrod	*Solidago caesia*	GC	5	%	N		FACU
Graceful sedge	*Carex gracillima*	GC	2	%	N		FACU
Boneset	*Eupatorium perfoliatum*	GC	2	%	N		FACW
Coltsfoot	*Tussilago farfara*	GC	2	%	N	YES	FACU
Crown vetch	*Securigera varia*	GC	1	%	N		NI
Bebb Willow	*Salix bebbiana*	S	12	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	8	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	4	Stems			FACW
Cottonwood	*Populus deltoides*	S	3	Stems			FAC
Hoary Willow	*Salix candida*	S	2	Stems			OBL
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW

GC % Cover	103	%
GC Invasives % Cover	10%	
GC Hydrophyte % Cover (non invasives only)	83%	
Native Shrub Stem Count	30	
Invasive Shrub Stem Count	0	

Notes:

Purple loosestrife 21 stems

Monitoring Plot Identifier: B-5

Photograph Taken? Y

Date: 09-24-15

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions: Partly Cloudy mid 60's

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Soft rush	*Juncus effusus*	GC	32	%	Y		OBL
Purple loosestrife	*Lythrum salicaria*	GC	16	%	Y	YES	OBL
Purple stemmed aster	*Symphyotrichum puniceum*	GC	14	%	Y		OBL
Joint leaved rush	*Juncus articulatus*	GC	12	%	N		OBL
Common cattail	*Typha latifolia*	GC	7	%	N		OBL
Purple leaved willow herb	*Epilobium coloratum*	GC	6	%	N		OBL
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
Redtop grass	*Agrostis gigantea*	GC	5	%	N		FACW
Graceful sedge	*Carex gracillima*	GC	5	%	N		FACU
Fowl bluegrass	*Poa palustris*	GC	3	%	N		FACW
Joe pye Weed	*Eutrochium purpureum*	GC	3	%	N		FAC
Dark green bulrush	*Scirpus atrivrens*	GC	2	%			OBL
Hoary Willow	*Salix candida*	S	3	Stems			OBL
Bebb Willow	*Salix bebbiana*	S	3	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Speckled Alder	*Alnus incana*	S	1	Stem			FACW

GC % Cover	110	%
GC Invasives % Cover	15%	
GC Hydrophyte % Cover (non invasives only)	81%	
Native Shrub Stem Count	8	
Invasive Shrub Stem Count	0	

Notes:
Purple loosestrife 21 stems

Monitoring Plot Identifier: B-6

Date: 09-24-15

Staff: Randy Christensen

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Small white aster	*Symphyotrichum racemosum*	GC	16	%	Y		FACW
Soft rush	*Juncus effusus*	GC	14	%	Y		OBL
Purple loosestrife	*Lythrum salicaria*	GC	12	%	Y	YES	OBL
Boneset	*Eupatorium perfoliatum*	GC	10	%	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	10	%	Y		OBL
Late goldenrod	*Solidago gigantea*	GC	8	%	N		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	8	%	N		FAC
Redtop grass	*Agrostis gigantea*	GC	5	%	N		FACW
Blue vervain	*Verbena officinalis*	GC	5	%	N		FACU
Bebb Willow	*Salix bebbiana*	S	29	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Hoary Willow	*Salix candida*		2	Stems			OBL
Pussy Willow	*Salix discolor*	S	1	Stem			FACW

GC % Cover	88	%
GC Invasives % Cover	14%	
GC Hydrophyte % Cover (non invasives only)	81%	
Native Shrub Stem Count	39	
Invasive Shrub Stem Count	0	

Notes:

Purple loosestrife 28 stems

Monitoring Plot Identifier: E-1

Date: 10-22-12

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Invasive?	Hydric Indicator
		GC		%		
		GC		%		
		GC		%		
		GC		%		
SHRUB COUNT ONLY		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
Green Ash	*Fraxinus pennsylvanicum*	S	1	Stems		FACW
Red osier dogwood	*Cornus sericea*	S	11	Stems		FACW+
Highbush cranberry	*Viburnum opulus*	S	1	Stem		FACW
Cottonwood	*Populus deltoides*	S	2	Stems		FAC

GC % Cover	%
GC Invasives % Cover	
GC Hydrophyte % Cover (non invasives only) %	
Native Shrub Stem Count	15
Invasive Shrub Stem Count	0

Monitoring Plot Identifier: E-2

Date: 10-22-12

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Invasive?	Hydric Indicator
		GC		%		
		GC		%		
		GC		%		
		GC		%		
SHRUB COUNT ONLY		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
Ash	*Fraxinus spp.*	S	1	Stems		FACW
Cottonwood	*Populus deltoides*	S	10	Stems		FAC
Willow	*Salix sp*	S	1	Stems		FAC
Arrowwood	*Viburnum dentatum*	S	1	Stems		FAC
Highbush cranberry	*Viburnum opulus*	S	3	Stems		FACW
	GC % Cover	%				
	GC Invasives % Cover					
	GC Hydrophyte % Cover (non invasives only)	%				
	Native Shrub Stem Count	16				
	Invasive Shrub Stem Count	0				

Monitoring Plot Identifier: E-3

Date: 10-22-12

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Invasive?	Hydric Indicator
		GC		%		
		GC		%		
		GC		%		
		GC		%		
SHRUB COUNT ONLY		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
Highbush cranberry	*Viburnum opulus*	S	1	Stem		FACW
Cottonwood	*Populus deltoides*	S	1	Stems		FAC

GC % Cover	%
GC Invasives % Cover	
GC Hydrophyte % Cover (non invasives only)	%
Native Shrub Stem Count	2
Invasive Shrub Stem Count	0

Monitoring Plot Identifier: E-4
Date: 10-22-12
Staff: Kate Foley
Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Invasive?	Hydric Indicator
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
SHRUB COUNT ONLY		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
Larch	*Larix laricina*	S	1 Stem		FACW
Highbush cranberry	*Viburnum opulus*	S	2 Stems		FACW
	GC % Cover %				
	GC Invasives % Cover				
	GC Hydrophyte % Cover (non invasives only) %				
	Native Shrub Stem Count 3				
	Invasive Shrub Stem Count 0				

Monitoring Plot Identifier: E-5	**Photograph Taken? Y**
Date: 10-22-12	**Herbivory Noted? N**
Staff: Kate Foley	**Other Disturbance? N**
Weather Conditions: Partly Cloudy mid 50's	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Invasive?	Hydric Indicator
		GC	%		
		GC	%		
		GC	%		
		GC	%		
SHRUB COUNT ONLY		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
Arrowwood	*Viburnum dentatum*	S	1 Stems		FAC
Willow	*Salix spp.*	S	3 Stems		(FACW)
	GC % Cover %				
	GC Invasives % Cover %				
	GC Hydrophyte % Cover (non invasives only) %				
	Native Shrub Stem Count 4				
	Invasive Shrub Stem Count 0				

Monitoring Plot Identifier: E-6
Date: 10-22-12
Staff: Kate Foley
Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Invasive?	Hydric Indicator
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
SHRUB COUNT ONLY		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
Arrowwood	*Viburnum dentatum*	S	2 Stems		FAC
Alder	*Alnus rugosa*	S	1 Stems		FACW
Cottonwood	*Populus deltoides*	S	8 Stems		FAC
Dogwood	*Cornus spp.*	S	6 Stems		(FACW)
Red maple	*Acer rubrum*	S	2 Stems		FAC
	GC % Cover %				
	GC Invasives % Cover %				
	GC Hydrophyte % Cover (non invasives only) %				
	Native Shrub Stem Count 19				
	Invasive Shrub Stem Count 0				

Monitoring Plot Identifier: E-7
Date: 10-22-12
Staff: Kate Foley
Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Invasive?	Hydric Indicator
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
Larch	*Larix decidua*	S	1 Stem		FACW
Red osier dogwood	*Cornus sericea*	S	1 Stems		FACW+
Arrowwood	*Viburnum dentatum*	S	2 Stems		FAC
Cottonwood	*Populus deltoides*	S	20 Stems		FAC
	GC % Cover %				
	GC Invasives % Cover				
	GC Hydrophyte % Cover (non invasives only) %				
	Native Shrub Stem Count 24				
	Invasive Shrub Stem Count 0				

Monitoring Plot Identifier: E-8
Date: 10-22-12
Staff: Kate Foley
Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Invasive?	Hydric Indicator
		GC	%		
		GC	%		
		GC	%		
		GC	%		
SHRUB COUNT ONLY		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
Green Ash	*Fraxinus pennsylvanica*	S	1 Stems		FACW
Red Osier Dogwood	*Cornus sericea*	S	11 Stems		FACW+
Larch	*Larix decidua*	S	2 Stems		FACW
European Buckthorn	*Frangula alnus*	S	1 Stems		FAC
Willow	*Salix spp.*	S	1 Stems		(FACW)
	GC % Cover %				
	GC Invasives % Cover				
	GC Hydrophyte % Cover (non invasives only) %				
	Native Shrub Stem Count 15				
	Invasive Shrub Stem Count 1				

Monitoring Plot Identifier: E-1

Photograph Taken? Y

Date: 06/20/13

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	18	%	Y		FACW
Redtop grass	*Agrostis gigantea*	GC	12	%	Y		FACW
Fowl bluegrass	*Poa palustris*	GC	10	%	Y		FACW
Fox sedge	*Carex vulpinodea*	GC	8	%	Y		OBL
Sphagnum moss	*Sphagnum sp.*	GC	8	%	Y		OBL
Deer tongue grass	*Dichanthelium clandestinum*	GC	8	%	Y		FACW
Graceful sedge	*Carex gracillima*	GC	5	%	N		FACU
Dark green bulrsh	*Scirpus atrovirens*	GC	4	%	N		OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	3	%	N		FAC
Purple loosestrife	*Lythrum sallicaria*	GC	2	%	N	YES	OBL
Small white aster	*Symphyotrichum racemosum*	GC	2	%	N		FACW
Boneset	*Eupatorium perfoliatum*	GC	1	%	N		FACW
Red Clover	*Trifolium pratense*	GC	1	%	N		FACU
Marsh St. John's Wort	*Triadenum virginicum*	GC	1	%	N		OBL
Bebb Willow	*Salix bebbiana*	S	3	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Highbush Cranberry	*Viburnum opulus*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC
	GC % Cover	83 %					
	GC Invasives % Cover	2%					
	GC Hydrophyte % Cover (non invasives only)	90%					
	Native Shrub Stem Count	9					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: E-2

Photograph Taken? Y

Date: 06-20-13

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	15	%	Y		FACW
Redtop grass	*Agrostis gigantea*	GC	12	%	Y		FACW
Sphagnum moss	*Sphagnum sp.*	GC	10	%	Y		OBL
Deer tongue grass	*Dichanthelium clandestinum*	GC	10	%	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	5	%	N		FAC
Grass leaf goldenrod	*Euthamia graminifolia*	GC	3	%	N		FAC
Crown Vetch	*Securigera varia*	GC	2	%	N		NI
Queen Anne's lace	*Daucus carota*	GC	2	%	N		UPL
Coltsfoot	*Tussilago farfara*	GC	1	%	N	YES	FACU
Purple loosestrife	*Lythrum salicaria*	GC	1	%	N	YES	OBL
Common mullein	*Verbascum thapsus*	GC	1	%	N		UPL
Small white aster	*Symphyotrichum racemosum*	GC	1	%	N		FACW
Cottonwood	*Populus deltoides*	S	2	Stems			FAC
Highbush Cranberry	*Viburnum opulus*	S	2	Stems			FACW
Red Raspberry	*Rubus ideaus*	S	1	Stem			FACW
Bebb Willow	*Salix bebbiana*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC

GC % Cover	63	%
GC Invasives % Cover	3%	
GC Hydrophyte % Cover (non invasives only)	89%	
Native Shrub Stem Count	7	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: E-3

Date: 06/20/13

Staff: Randy Christensen

Weather Conditions:

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	32	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	15	%	Y		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	10	%	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
Rose pink	*Sabatia angularis*	GC	3	%	N		FAC
Grassleaf goldenrod	*Euthamia graminifolia*	GC	2	%	N		FAC
Queen Anne's lace	*Daucus carota*	GC	2	%	N		UPL
Blue vervain	*Verbena hastata*	GC	1	%	N		FACW
Red clover	*Trifolium pratense*	GC	1	%	N		FACU
Boxelder	*Acer negundo*	S	1	Stem			FAC
Highbush cranberry	*Viburnum opulus*	S	1	Stem			FACW

GC % Cover	71	%
GC Invasives % Cover	0%	
GC Hydrophyte % Cover (non invasives only)	96%	
Native Shrub Stem Count	2	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: E-4

Date: 06/20/13

Staff: Randy Christensen

Weather Conditions:

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	25 %	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	18 %	Y		FAC
Red clover	*Trifolium pratense*	GC	6 %	N		FACU
Crown vetch	*Securigera varia*	GC	6 %	N		NI
Small white aster	*Symphyotrichum racemosum*	GC	4 %	N		FACW
Rose pink	*Sabatia angularis*	GC	3 %	N		FAC
Late goldenrod	*Solidago gigantea*	GC	1 %	N		FACW
Queen Anne's lace	*Daucus carota*	GC	1 %	N		UPL
Tamarack	*Larix laricina*	S	2 Stems			FACW
Highbush Cranberry	*Viburnum opulus*	S	2 Stems			FACW
	GC % Cover 64 %					
	GC Invasives % Cover 0%					
	GC Hydrophyte % Cover (non invasives only)	80%				
	Native Shrub Stem Count 4					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-5

Date: 06/20/13

Staff: Randy Christensen

Weather Conditions:

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	18 %	Y		FACW
Redtop grass	*Agrostis gigantea*	GC	18 %	Y		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	10 %	N		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	8 %	N		FAC
Crown vetch	*Securigera varia*	GC	3 %	N		NI
Late goldenrod	*Solidago gigantea*	GC	2 %	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	2 %	N		FACW
Bedstraw	*Galium boreale*	GC	2 %	N		FAC
Rose pink	*Sabatia angularis*	GC	2 %	N		FAC
Bluestem goldenrod	*Solidago caesia*	GC	1 %	N		FACU
Queen Anne's lace	*Daucus carota*	GC	1 %	N		UPL
Purple loosestrife	*Lythrum salicaria*	GC	1 %	N	YES	OBL
Red Raspberry	*Rubus ideaus*	S	1 Stem			FACW
Red Osier Dogwood	*Cornus sericea*	S	1 Stem			FACW
	GC % Cover 68 %					
	GC Invasives % Cover 1%					
	GC Hydrophyte % Cover (non invasives only)	91%				
	Native Shrub Stem Count 2					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-6

Date: 06/20/13

Staff: Randy Christensen

Weather Conditions:

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	15 %	Y		FACW
Queen Anne's lace	*Daucus carota*	GC	10 %	Y		UPL
Deer tongue grass	*Dichanthelium clandestinum*	GC	10 %	Y		FACW
Sphagnum moss	*Sphagnum sp.*	GC	8 %	Y		OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	5 %	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	5 %	N		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	5 %	N		OBL
Crown vetch	*Securigera varia*	GC	4 %	N		NI
Common cinquefoil	*Potentilla simplex*	GC	4 %	N		FACU
Purple loosestrife	*Lythrum salicaria*	GC	2 %	N	YES	OBL
Yarrow	*Achillea millefolium*	GC	2 %	N		FACU
Late goldenrod	*Solidago gigantea*	GC	1 %	N		FACW
Speckled alder	*Alnus incana*	S	1 Stem			FACW
Cottonwood	*Populus deltoides*	S	1 Stem			FAC
Arrowwood	*Viburnum dentatum*	S	1 Stem			FAC
	GC % Cover 71 %					
	GC Invasives % Cover 3%					
	GC Hydrophyte % Cover (non invasives only)	69%				
	Native Shrub Stem Count 3					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-7

Date: 06/20/13

Staff: Randy Christensen

Weather Conditions:

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	20 %	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	12 %	Y		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	10 %	N		FACW
Crown vetch	*Securigera varia*	GC	5 %	N		NI
Sphagnum moss	*Sphagnum sp.*	GC	4 %	N		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	2 %	N		OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	2 %	N		FAC
Daisy fleabane	*Erigeron annuus*	GC	2 %	N		FACU
English plantain	*Plantago lanceolata*	GC	1 %	N		FACU
Dewberry	*Rubus hispidus*	GC	1 %	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	1 %	N		FACW
Late goldenrod	*Solidago gigantea*	GC	1 %	N		FACW
Highbush Cranberry	*Viburnum opulus*	S	2 Stems			FACW
Cottonwood	*Populus deltoides*	S	1 Stem			FAC
Tamarack	*Larix laricina*	S	1 Stem			FACW
Bebb Willow	*Salix bebbiana*	S	1 Stem			FACW
Red Osier Dogwood	*Cornus sericea*	S	1 Stem			FACW
	GC % Cover 61 %					
	GC Invasives % Cover 0%					
	GC Hydrophyte % Cover (non invasives only)	87%				
	Native Shrub Stem Count 6					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-8
Date: 10-11-13
Staff: Randy Christensen & Kate Foley
Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Deer tongue grass	*Dichanthelium clandestinum*	GC	12 %	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	10 %	Y		FAC
Purple loosestrife	*Lythrum salicaria*	GC	8 %	Y	YES	OBL
Redtop grass	*Agrostis gigantea*	GC	6 %	Y		FACW
Queen Anne's lace	*Daucus carota*	GC	6 %	Y		UPL
Fox sedge	*Carex vulpinodea*	GC	5 %	N		OBL
Fowl meadowgrass	*Poa palustris*	GC	5 %	N		FACW
Sphagnum moss	*Sphagnum sp.*	GC	4 %	N		OBL
Rough bluegrass	*Poa trivialis*	GC	3 %	N		FACW
Crown vetch	*Securigera varia*	GC	2 %	N		NI
Purple stem aster	*Symphyotrichum puniceum*	GC	1 %	N		OBL
Bluestem goldenrod	*Solidago caesia*	GC	1 %	N		FACU
Square stemmed monkey flower	*Mimulus ringens*	GC	1 %	N		OBL
Boneset	*Eupatorium perfoliatum*	GC	1 %	N		FACW
Marsh St. John's Wort	*Triadenum virginicum*	GC	1 %	N		OBL
Blackeyed susan	*Rudbeckia hirta*	GC	1 %	N		FACU
Bebb willow	*Salix bebbiana*	S	2 Stems			FACW
Red osier dogwood	*Cornus sericea*	S	2 Stems			FACW
Cottonwood	*Populus deltoides*	S	2 Stems			FACW
Tamarack	Larix laricina	S	2 Stems			FACW
Boxelder	*Acer negundo*	S	1 Stem			FAC
	GC % Cover 67 %					
	GC Invasives % Cover 12%					
	GC Hydrophyte % Cover (non invasives only)	73%				
	Native Shrub Stem Count 9					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-1

Date: 10-11-13

Staff: Randy Christensen & Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	16	%	Y		FACW
Fox sedge	*Carex vulpinodea*	GC	12	%	Y		OBL
Redtop grass	*Agrostis gigantea*	GC	11	%	Y		FACW
Sphagnum moss	*Sphagnum sp.*	GC	10	%	Y		OBL
Fowl bluegrass	*Poa palustris*	GC	9	%	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	8	%	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	6	%	N		FACW
Graceful sedge	*Carex gracillima*	GC	6	%	N		FACU
Purple loosestrife	*Lythrum sallicaria*	GC	5	%	N	YES	OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	5	%	N		OBL
Dark green bulrsh	*Scirpus atrovirens*	GC	3	%	N		OBL
English plantain	*Plantago lanceolata*	GC	3	%	N		FACU
Boneset	*Eupatorium perfoliatum*	GC	3	%	N		FACW
Blue vervain	*Verbena hastata*	GC	2	%	N		FACW
Red Clover	*Trifolium pratense*	GC	2	%	N		FACU
Marsh St. John's Wort	*Triadenum virginicum*	GC	2	%	N		OBL
Small white aster	*Symphyotrichum racemosum*	GC	2	%	N		FACW
Bebb Willow	*Salix bebbiana*	S	3	Stems			FACW
Cottonwood	*Populus deltoides*	S	2	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Highbush Cranberry	*Viburnum opulus*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC
	GC % Cover 105 %						
	GC Invasives % Cover 5%						
	GC Hydrophyte % Cover (non invasives only)	85%					
	Native Shrub Stem Count 11						
	Invasive Shrub Stem Count 0						

Monitoring Plot Identifier: E-2

Date: 10-11-13

Staff: Randy Christensen & Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	28	%	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	12	%	Y		FAC
Sphagnum moss	*Sphagnum sp.*	GC	12	%	Y		OBL
Rough bluegrass	*Poa trivialis*	GC	11	%	N		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	8	%	N		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	7	%	N		FAC
Coltsfoot	*Tussilago farfara*	GC	6	%	N	YES	FACU
Purple loosestrife	*Lythrum salicaria*	GC	4	%	N	YES	OBL
Blue vervain	*Verbena hastata*	GC	3	%	N		FACW
Crown Vetch	*Securigera varia*	GC	3	%	N		NI
Queen Anne's lace	*Daucus carota*	GC	2	%	N		UPL
Late goldenrod	*Solidago gigantea*	GC	1	%	N		FACW
Field thistle	*Circium discolor*	GC	1	%	N		UPL
Common mullein	*Verbascum thapsus*	GC	1	%	N		UPL
Small white aster	*Symphyotrichum racemosum*	GC	1	%	N		FACW
Cottonwood	*Populus deltoides*	S	2	Stems			FAC
Highbush Cranberry	*Viburnum opulus*	S	2	Stems			FACW
Red Raspberry	*Rubus ideaus*	S	1	Stem			FACW
Bebb Willow	*Salix bebbiana*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC

GC % Cover	100	%
GC Invasives % Cover	10%	
GC Hydrophyte % Cover (non invasives only)	83%	
Native Shrub Stem Count	7	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: E-3

Date: 10-11-13

Staff: Randy Christensen & Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	30	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	15	%	Y		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	15	%	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	7	%	N		FAC
Late goldenrod	*Solidago gigantea*	GC	4	%	N		FACW
Queen Anne's lace	*Daucus carota*	GC	4	%	N		UPL
New York aster	*Symphyotrichum novi-belgii*	GC	2	%	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	2	%	N		FACW
Blue vervain	*Verbena hastata*	GC	2	%	N		FACW
Red clover	*Trifolium pratense*	GC	1	%	N		FACU
Boxelder	*Acer negundo*	S	1	Stem			FAC
Highbush cranberry	*Viburnum opulus*	S	1	Stem			FACW

GC % Cover	82	%
GC Invasives % Cover	0%	
GC Hydrophyte % Cover (non invasives only)	94%	
Native Shrub Stem Count	2	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: E-4

Date: 10-11-13

Staff: Randy Christensen & Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Grassleaf goldenrod	*Euthamia graminifolia*	GC	34 %	Y		FAC
Rough bluegrass	*Poa trivialis*	GC	22 %	Y		FACW
Red clover	*Trifolium pratense*	GC	4 %	N		FACU
Crown vetch	*Securigera varia*	GC	3 %	N		NI
Small white aster	*Symphyotrichum racemosum*	GC	3 %	N		FACW
Late goldenrod	*Solidago gigantea*	GC	2 %	N		FACW
Queen Anne's lace	*Daucus carota*	GC	2 %	N		UPL
Tamarack	*Larix laricina*	S	2 Stems			FACW
Highbush Canberry	*Viburnum opulus*	S	2 Stems			FACW
	GC % Cover 70 %					
	GC Invasives % Cover 0%					
	GC Hydrophyte % Cover (non invasives only)	87%				
	Native Shrub Stem Count 4					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-5

Date: 10-11-13

Staff: Randy Christensen & Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	30 %	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	17 %	Y		FAC
Redtop grass	*Agrostis gigantea*	GC	16 %	Y		FACW
Late goldenrod	*Solidago gigantea*	GC	10 %	N		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	7 %	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	5 %	N		FACW
Crown vetch	*Securigera varia*	GC	3 %	N		NI
Bluestem goldenrod	*Solidago caesia*	GC	3 %	N		FACU
Queen Anne's lace	*Daucus carota*	GC	2 %	N		UPL
Purple loosestrife	*Lythrum salicaria*	GC	1 %	N	YES	OBL
Red Raspberry	*Rubus ideaus*	S	1 Stem			FACW
Red Osier Dogwood	*Cornus sericea*	S	1 Stem			FACW
	GC % Cover 94 %					
	GC Invasives % Cover 1%					
	GC Hydrophyte % Cover (non invasives only)	91%				
	Native Shrub Stem Count 2					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-6
Date: 10-11-13
Staff: Randy Christensen & Kate Foley
Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Sphagnum moss	*Sphagnum sp.*	GC	14 %	Y		OBL
Queen Anne's lace	*Daucus carota*	GC	12 %	Y		UPL
Redtop grass	*Agrostis gigantea*	GC	11 %	Y		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	11 %	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	9 %	Y		FAC
Small white aster	*Symphyotrichum racemosum*	GC	8 %	N		FACW
Late goldenrod	*Solidago gigantea*	GC	5 %	N		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	4 %	N		OBL
Timothy grass	*Phleum pratense*	GC	4 %	N		FACU
Purple loosestrife	*Lythrum salicaria*	GC	4 %	N	YES	OBL
Tall goldenrod	*Solidago altissima*	GC	2 %	N		FACU
Crown vetch	*Securigera varia*	GC	2 %	N		NI
Common cinquefoil	*Potentilla simplex*	GC	1 %	N		FACU
Speckled alder	*Alnus incana*	S	1 Stem			FACW
Cottonwood	*Populus deltoides*	S	1 Stem			FAC
Arrowwood	*Viburnum dentatum*	S	1 Stem			FAC
	GC % Cover 87 %					
	GC Invasives % Cover 5%					
	GC Hydrophyte % Cover (non invasives only)	71%				
	Native Shrub Stem Count 3					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-7
Date: 10-11-13
Staff: Randy Christensen & Kate Foley
Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	22 %	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	16 %	Y		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	10 %	Y		FACW
Sphagnum moss	*Sphagnum sp.*	GC	8 %	Y		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	7 %	N		OBL
Blue vervain	*Verbena hastata*	GC	6 %	N		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	5 %	N		FAC
English plantain	*Plantago lanceolata*	GC	5 %	N		FACU
Dewberry	*Rubus hispidus*	GC	5 %	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	4 %	N		FACW
Late goldenrod	*Solidago gigantea*	GC	4 %	N		FACW
Crown vetch	*Securigera varia*	GC	3 %	N		NI
Highbush Cranberry	*Viburnum opulus*	S	2 Stems			FACW
Cottonwood	*Populus deltoides*	S	1 Stem			FAC
Tamarack	*Larix laricina*	S	1 Stem			FACW
Bebb Willow	*Salix bebbiana*	S	1 Stem			FACW
Red osier dogwood	*Cornus sericea*	S	1 Stem			FACW
	GC % Cover 95 %					
	GC Invasives % Cover 0%					
	GC Hydrophyte % Cover (non invasives only)	92%				
	Native Shrub Stem Count 6					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-8
Date: 10-11-13
Staff: Randy Christensen & Kate Foley
Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Grassleaf goldenrod	*Euthamia graminifolia*	GC	11 %	Y		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	9 %	Y		FACW
Fox sedge	*Carex vulpinodea*	GC	9 %	Y		OBL
Sphagnum moss	*Sphagnum sp.*	GC	9 %	Y		OBL
Purple loosestrife	*Lythrum salicaria*	GC	8 %	Y	YES	OBL
Redtop grass	*Agrostis gigantea*	GC	8 %	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	8 %	Y		OBL
Rough bluegrass	*Poa trivialis*	GC	5 %	N		FACW
Queen Anne's lace	*Daucus carota*	GC	5 %	N		UPL
Blue vervain	*Verbena hastata*	GC	4 %	N		FACW
Bluestem goldenrod	*Solidago caesia*	GC	4 %	N		FACU
Crown vetch	*Securigera varia*	GC	3 %	N		NI
Square stemmed monkey flower	*Mimulus ringens*	GC	3 %	N		OBL
Boneset	*Eupatorium perfoliatum*	GC	3 %	N		FACW
Fowl meadowgrass	*Poa palustris*	GC	3 %	N		FACW
Marsh St. John's Wort	*Triadenum virginicum*	GC	2 %	N		OBL
Field Thistle	*Cirsium discolor*	GC	1 %	N		UPL
Blackeyed susan	*Rudbeckia hirta*	GC	1 %	N		FACU
Bebb willow	*Salix bebbiana*	S	2 Stems			FACW
Red osier dogwood	*Cornus sericea*	S	2 Stems			FACW
Cottonwood	*Populus deltoides*	S	2 Stems			FACW
Tamarack	Larix laricina	S	2 Stems			FACW
Boxelder	*Acer negundo*	S	1 Stem			FAC
	GC % Cover 96 %					
	GC Invasives % Cover 8%					
	GC Hydrophyte % Cover (non invasives only)	77%				
	Native Shrub Stem Count 9					
	Invasive Shrub Stem Count 0					

Plant Monitoring Form

Monitoring Plot Identifier: E-1	**Photograph Taken? Y**
Date: 07-02-14	**Herbivory Noted? N**
Staff: Randy Christensen	**Other Disturbance? N**
Weather Conditions: Sunny, humid, 90's	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Fox sedge	*Carex vulpinodea*	GC	18 %	Y		OBL
Deer tongue grass	*Dichanthelium clandestinum*	GC	10 %	Y		FACW
Dark green bulrush	*Scirpus atrovirens*	GC	8 %	Y		OBL
Soft rush	*Juncus effusus*	GC	8 %	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	6 %	N		OBL
Redtop	*Agrostis gigantea*	GC	5 %	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	5 %	N	YES	OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	3 %	N		FAC
Small white aster	*Symphyotrichum lateriflorum*	GC	2 %	N		FACW
Crown vetch	*Securigera varia*	GC	2 %	N		NI
Boneset	*Eupatorium perfoliatum*	GC	1 %	N		FACW
Rough bluegrass	*Poa trivialis*	GC	1 %	N		FACW
Field thistle	*Cirsium discolor*	GC	1 %	N		UPL
Red Osier Dogwood	*Cornus sericea*	S	4 Stems			FACW
Highbush Cranberry	*Viburnum opulus*	S	2 Stems			FACW
Boxelder	*Acer negundo*	S	1 Stem			FAC
Bebb Willow	*Salix bebbiana*	S	1 Stem			FACW
Speckled Alder	*Alnus rugosa*	S	1 Stem			FACW
Cottonwood	*Populus deltoides*	S	1 Stem			FACW
	GC % Cover 70 %					
	GC Invasives % Cover 7%					
	GC Hydrophyte % Cover (non invasives only)	89%				
	Native Shrub Stem Count 10					
	Invasive Shrub Stem Count 0					

Notes:

Plant Monitoring Form

Monitoring Plot Identifier: E-2

Date: 07-02-2014

Staff: Randy Christensen

Weather Conditions: Sunny, humid 90's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	30	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	15	%	Y		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	10	%	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	8	%	N		FAC
Fox sedge	*Carex vulpinoidea*	GC	8	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	6	%	N	YES	OBL
Crown vetch	*Securigera varia*	GC	5	%	N		NI
Grass leaf goldenrod	*Euthamia graminifolia*	GC	4	%	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	2	%	N		FACW
Sphagnum moss	*Sphagnum sp.*	GC	1	%	N		OBL
Late goldenrod	*Solidago gigantea*	GC	1	%	N		FACW
Blue vervain	*Verbena hastata*	GC	1	%	N		FACW
Spearmint	*Mentha spicata*	GC	1	%	N		FACW
Coltsfoot	*Tussilago farfara*	GC	1	%	N	YES	FACU
Highbush Cranberry	*Viburnum opulus*	S	2	Stems			FACW
Arrowwood	*Viburnum recognitum*	S	2	Stems			FACW
Bebb Willow	*Salix bebbiana*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC

GC % Cover	93	%
GC Invasives % Cover	8%	
GC Hydrophyte % Cover (non invasives only)	87%	
Native Shrub Stem Count	6	
Invasive Shrub Stem Count	0	

Notes:

Monitoring Plot Identifier: E-3

Date: 07-02-14

Staff: Randy Christensen

Weather Conditions: Sunny, humid, 90's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	40	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	12	%	Y		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	10	%	N		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	8	%	N		FAC
Rough goldenrod	*Solidago rugosa*	GC	8	%	N		FAC
Bedstraw	*Galium boreale*	GC	8	%	N		FAC
Tall goldenrod	*Solidago altissima*	GC	5	%	N		FACU
Cow vetch	*Vicia cracca*	GC	5	%	N		UPL
Small white aster	*Symphyotrichum racemosum*	GC	3	%	N		FACW
Late goldenrod	*Solidago gigantea*	GC	3	%	N		FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC
Highbush Cranberry	*Viburnum opulus*	S	1	Stem			FACW
Arrowwood	*Viburnum recognitum*	S	1	Stem			FACW
Beb Willow	*Salix bebbiana*	S	1	Stem			FACW
	GC % Cover	102 %					
	GC Invasives % Cover	0%					
	GC Hydrophyte % Cover (non invasives only)	90%					
	Native Shrub Stem Count	4					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: E-4
Date: 07-02-14
Staff: Randy Christensen
Weather Conditions: Sunny, humid, 90's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	16 %	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	15 %	Y		FAC
Cow vetch	*Vicia cracca*	GC	6 %	N		UPL
Small white aster	*Symphyotrichum racemosum*	GC	5 %	N		FACW
Red clover	*Trifolium pratense*	GC	5 %	N		FACU
Crown vetch	*Securigera varia*	GC	5 %	N		NI
Redtop grass	*Agrostis gigantea*	GC	3 %	N		FACW
Late goldenrod	*Solidago gigantea*	GC	2 %	N		FACW
Tall goldenrod	*Solidago altissima*	GC	2 %	N		FACU
Queen Anne's lace	*Daucus carota*	GC	2 %	N		UPL
Tamarack	*Larix laricina*	S	2 Stems			FACW
Highbush Cranberry	*Viburnum opulus*	S	2 Stems			FACW
	GC % Cover 61 %					
	GC Invasives % Cover 0%					
	GC Hydrophyte % Cover (non invasives only)	67%				
	Native Shrub Stem Count 4					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-5
Date: 07-02-14
Staff: Randy Christensen
Weather Conditions: Sunny, humid, 90's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Grassleaf goldenrod	*Euthamia graminifolia*	GC	25 %	Y		FAC
Redtop grass	*Agrostis gigantea*	GC	10 %	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	8 %	Y		FACW
Purple Stem Aster	*Symphyotrichum puniceum*	GC	8 %	Y		OBL
Bluestem goldenrod	*Solidago caesia*	GC	6 %	N		FACU
Crown vetch	*Securigera varia*	GC	6 %	N		NI
Cow vetch	*Vicia cracca*	GC	6 %	N		UPL
Tall Goldenrod	*Solidago altissima*	GC	5 %	N		FACU
Rough Goldenrod	*Solidago rugosa*	GC	5 %	N		FAC
Late goldenrod	*Solidago gigantea*	GC	4 %	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	3 %	N		FACW
Queen Anne's lace	*Daucus carota*	GC	3 %	N		UPL
Deer tongue grass	*Dichanthelium clandestinum*	GC	1 %	N		FACW
Red Raspberry	*Rubus ideaus*	S	1 Stem			FACW
Red Osiier Dogwood	*Cornus sericea*	S	1 Stem			FACW
	GC % Cover 90 %					
	GC Invasives % Cover 0%					
	GC Hydrophyte % Cover (non invasives only)	71%				
	Native Shrub Stem Count 2					
	Invasive Shrub Stem Count 0					

Plant Monitoring Form

Monitoring Plot Identifier: E-6
Date: 07-02-14
Staff: Randy Christensen
Weather Conditions: Sunny, humid, 90's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Sphagnum moss	*Sphagnum sp.*	GC	15 %	Y		OBL
Deer tongue grass	*Dichanthelium clandestinum*	GC	15 %	Y		FACW
Crown vetch	*Securigera varia*	GC	11 %	Y		NI
Grassleaf goldenrod	*Euthamia graminifolia*	GC	8 %	Y		FAC
Small white aster	*Symphyotrichum racemosum*	GC	6 %	N		FACW
Redtop grass	*Agrostis gigantea*	GC	6 %	N		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	6 %	N		OBL
Common cinquefoil	*Potentilla simplex*	GC	5 %	N		FACU
Rough goldenrod	*Solidago rugosa*	GC	5 %	N		FAC
Queen Anne's lace	*Daucus carota*	GC	5 %	N		UPL
Tall goldenrod	*Solidago altissima*	GC	2 %	N		FACU
Red clover	*Trifolium pratense*	GC	2 %	N		FACU
Cow vetch	*Vicia cracca*	GC	1 %	N		UPL
Speckled alder	*Alnus incana*	S	1 Stem			FACW
Arrowwood	*Viburnum dentatum*	S	1 Stem			FAC
	GC % Cover 87 %					
	GC Invasives % Cover 0%					
	GC Hydrophyte % Cover (non invasives only)	70%				
	Native Shrub Stem Count 2					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-7
Date: 07-02-14
Staff: Randy Christensen
Weather Conditions: Sunny, humid, 90's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	20 %	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	15 %	Y		FAC
Purple stem aster	*Symphyotrichum puniceum*	GC	10 %	Y		OBL
Rough bluegrass	*Poa trivialis*	GC	8 %	N		FACW
Purple loostestrife	*Lythrum salicaria*	GC	5 %	N	YES	OBL
Late goldenrod	*Solidago gigantea*	GC	3 %	N		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	3 %	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	3 %	N		FACW
Crown vetch	*Securigera varia*	GC	3 %	N		NI
Dewberry	*Rubus hispidus*	GC	2 %	N		FACW
Fowl bluegrass	*Poa palustris*	GC	1 %	N		FACW
Blue vervain	*Verbena hastata*	GC	1 %	N		FACW
Highbush Cranberry	*Viburnum opulus*	S	3 Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	2 Stems			FACW
Tamarack	*Larix laricina*	S	1 Stem			FACW
Speckled Alder	*Alnus rugosa*	S	1 Stem			FACW
	GC % Cover 74 %					
	GC Invasives % Cover 7%					
	GC Hydrophyte % Cover (non invasives only)	89%				
	Native Shrub Stem Count 7					
	Invasive Shrub Stem Count 0					

Notes:

Monitoring Plot Identifier: E-8

Date: 07-02-14

Staff: Randy Christensen

Weather Conditions: Sunny, humid, 90's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Purple stem aster	*Symphyotrichum puniceum*	GC	12	%	Y		OBL
Redtop grass	*Agrostis gigantea*	GC	11	%	Y		FACW
Fox sedge	*Carex vulpinodea*	GC	11	%	Y		OBL
Sphagnum moss	*Sphagnum sp.*	GC	7	%	Y		OBL
Fowl bluegrass	*Poa palustris*	GC	6	%	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	6	%	Y		FAC
Rough bluegrass	*Poa trivialis*	GC	5	%	N		FACW
Lurid sedge	*Carex lurida*	GC	5	%	N		OBL
Crown vetch	*Securigera varia*	GC	5	%	N		NI
Dark green bulrsh	*Scirpus atrovirens*	GC	4	%	N		OBL
Small white aster	*Symphyotrichum racemosum*	GC	3	%	N		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	3	%	N		FACW
Purple loosestrife	*Lythrum sallicaria*	GC	3	%	N	YES	OBL
Red clover	*Trifolium pratense*	GC	3	%	N		FACU
Boneset	*Eupatorium perfoliatum*	GC	1	%	N		FACW
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Tamarack	*Larix laricina*	S	2	Stems			FACW
Bebb Willow	*Salix bebbiana*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC
	GC % Cover	85 %					
	GC Invasives % Cover	4%					
	GC Hydrophyte % Cover (non invasives only)	87%					
	Native Shrub Stem Count	6					
	Invasive Shrub Stem Count	0					

Notes:

Plant Monitoring Form

Monitoring Plot Identifier: E-1	**Photograph Taken? Y**
Date: 09-17-14	**Herbivory Noted? N**
Staff: Randy Christensen & Ally Sullivan	**Other Disturbance? N**
Weather Conditions: Sunny, cool, calm, 70s	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Dark Green Bullrush	*Scirpus atrovirens*	GC	15 %	Y		OBL
Fox sedge	*Carex vulpinodea*	GC	14 %	Y		OBL
Panic grass	*Agrostis stolonifera*	GC	10 %	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	10 %	Y		OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	8 %	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	8 %	N		FACW
Redtop	*Agrostis gigantea*	GC	7 %	N		FACW
Soft Rush	*Juncus effusus*	GC	7 %	N		FACW
Small White Aster	*Symphyotrichum lateriflorum*	GC	5 %	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	3 %	N	YES	OBL
Crown vetch	*Securigera varia*	GC	2 %	N		NI
Boneset	*Eupatorium perfoliatum*	GC	2 %	N		FACW
Sphagnum moss	*Sphagnum sp.*	GC	1 %	N		OBL
Rough bluegrass	*Poa trivialis*	GC	1 %	N		FACW
Bluestem goldenrod	*Solidago caesia*	GC	1 %	N		FACU
Field Thistle	*Cirsium discolor*	GC	1 %	N		UPL
Red osier dogwood	*Cornus sericea*	S	4 Stems			FACW
Highbush Cranberry	*Viburnum opulus*	S	2 Stems			FACW
Boxelder	*Acer negundo*	S	1 Stem			FAC
Bebb willow	*Salix bebbiana*	S	1 Stem			FACW
Speckled Alder	*Alnus rugosa*	S	1 Stem			FACW
Cottonwood	*Populus deltoides*	S	1 Stem			FACW
	GC % Cover 95 %					
	GC Invasives % Cover 3%					
	GC Hydrophyte % Cover (non invasives only)	93%				
	Native Shrub Stem Count 10					
	Invasive Shrub Stem Count 0					

Notes:
Purple loosestrife 5 stems

Monitoring Plot Identifier: E-2

Photograph Taken? Y

Date: 09-17-2014

Herbivory Noted? N

Staff: Randy Christensen & Ally Sullivan

Other Disturbance? N

Weather Conditions: Calm, cool, clear, 70s

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	41	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	14	%	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	12	%	Y		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	10	%	N		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	9	%	N		FAC
Sphagnum moss	*Sphagnum sp.*	GC	5	%	N		OBL
Crown Vetch	*Securigera varia*	GC	5	%	N		NI
Late goldenrod	*Solidago gigantea*	GC	5	%	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
Fox Sedge	*Carex vulpinoidea*	GC	4	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	3	%	N	YES	OBL
Blue vervain	*Verbena hastata*	GC	3	%	N		FACW
Spearmint	*Mentha spicata*	GC	2	%	N		FACW
Coltsfoot	*Tussilago farfara*	GC	1	%	N	YES	FACU
Cottonwood	*Populus deltoides*	S	2	Stems			FAC
Highbush Cranberry	*Viburnum opulus*	S	2	Stems			FACW
Arrowwood	*Viburnum recognitum*	S	2	Stems			FACW
Bebb Willow	*Salix bebbiana*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC
	GC % Cover	119 %					
	GC Invasives % Cover	3%					
	GC Hydrophyte % Cover (non invasives only)	92%					
	Native Shrub Stem Count	8					
	Invasive Shrub Stem Count	0					

Notes:
Coltsfoot 1 stem
Purple loosestrife 8 stems

Monitoring Plot Identifier: E-3

Date: 09-17-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Calm, Cool, Clear, 70s

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	42	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	22	%	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	18	%	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	12	%	N		FACW
Tall goldenrod	*Solidago altissima*	GC	12	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	7	%	N		FACW
Rough goldenrod	*Solidago rugosa*	GC	5	%	N		FAC
Late goldenrod	*Solidago gigantea*	GC	3	%	N		FACW
Bedstraw	*Galium aparine*	GC	2	%	N		FACU
Boxelder	*Acer negundo*	S	1	Stem			FAC
Highbush Cranberry	*Viburnum opulus*	S	1	Stem			FACW
Arrowwood	*Viburnum recognitum*	S	1	Stem			FACW
Beb Willow	*Salix bebbiana*	S	1	Stem			FACW
	GC % Cover 123 %						
	GC Invasives % Cover 0%						
	GC Hydrophyte % Cover (non invasives only)	89%					
	Native Shrub Stem Count 4						
	Invasive Shrub Stem Count 0						

Monitoring Plot Identifier: E-4	**Photograph Taken? Y**
Date: 09-17-14	**Herbivory Noted? N**
Staff: Randy Christensen & Ally Sullivan	**Other Disturbance? N**
Weather Conditions: Calm, Cool, Clear, 70s	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	25 %	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	11 %	Y		FAC
Small white aster	*Symphyotrichum racemosum*	GC	7 %	N		FACW
Late goldenrod	*Solidago gigantea*	GC	6 %	N		FACW
Tall goldenrod	*Solidago altissima*	GC	6 %	N		FACU
Redtop grass	*Agrostis gigantea*	GC	5 %	N		FACW
Red clover	*Trifolium pratense*	GC	2 %	N		FACU
Crown vetch	*Securigera varia*	GC	2 %	N		NI
Queen Anne's lace	*Daucus carota*	GC	2 %	N		UPL
Tamarack	*Larix laricina*	S	2 Stems			FACW
Highbush Canberry	*Viburnum opulus*	S	2 Stems			FACW
	GC % Cover 66 %					
	GC Invasives % Cover 0%					
	GC Hydrophyte % Cover (non invasives only)	82%				
	Native Shrub Stem Count 4					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-5
Date: 09-17-14
Staff: Randy Christensen & Ally Sullivan
Weather Conditions: Calm, Cool, Clear, 70s

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Grassleaf goldenrod	*Euthamia graminifolia*	GC	23 %	Y		FAC
Rough bluegrass	*Poa trivialis*	GC	10 %	Y		FACW
Bluestem goldenrod	*Solidago caesia*	GC	10 %	Y		FACU
Tall Goldenrod	*Solidago altissima*	GC	10 %	Y		FACU
Redtop grass	*Agrostis gigantea*	GC	8 %	N		FACW
Late goldenrod	*Solidago gigantea*	GC	7 %	N		FACW
Crown vetch	*Securigera varia*	GC	7 %	N		NI
Purple Stem Aster	*Symphyotrichum puniceum*	GC	7 %	N		OBL
Rough Goldenrod	*Solidago rugosa*	GC	7 %	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	6 %	N		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	3 %	N		FACW
Queen Anne's lace	*Daucus carota*	GC	1 %	N		UPL
Red Raspberry	*Rubus ideaus*	S	1 Stem			FACW
Red Osiier Dogwood	*Cornus sericea*	S	1 Stem			FACW
	GC % Cover 99 %					
	GC Invasives % Cover 0%					
	GC Hydrophyte % Cover (non invasives only)	72%				
	Native Shrub Stem Count 2					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-6
Date: 09-17-14
Staff: Randy Christensen & Ally Sullivan
Weather Conditions: Calm, Cool, Clear, 70's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Sphagnum moss	*Sphagnum sp.*	GC	25 %	Y		OBL
Deer tongue grass	*Dichanthelium clandestinum*	GC	12 %	Y		FACW
Small white aster	*Symphyotrichum racemosum*	GC	10 %	Y		FACW
Crown vetch	*Securigera varia*	GC	10 %	Y		NI
Redtop grass	*Agrostis gigantea*	GC	9 %	N		FACW
Late goldenrod	*Solidago gigantea*	GC	8 %	N		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	7 %	N		FAC
Purple stem aster	*Symphyotrichum puniceum*	GC	6 %	N		OBL
Tall goldenrod	*Solidago altissima*	GC	5 %	N		FACU
Common cinquefoil	*Potentilla simplex*	GC	3 %	N		FACU
Rough Goldenrod	*Solidago rugosa*	GC	3 %	N		FAC
Queen Anne's lace	*Daucus carota*	GC	2 %	N		UPL
Red Clover	*Trifolium pratense*	GC	2 %	N		FACU
Purple loosestrife	*Lythrum salicaria*	GC	1 %	N	YES	OBL
New York Aster	*Symphyotrichum novi-belgii*	GC	1 %	N		FACW
Speckled alder	*Alnus incana*	S	1 Stem			FACW
Cottonwood	*Populus deltoides*	S	1 Stem			FAC
Arrowwood	*Viburnum dentatum*	S	1 Stem			FAC
	GC % Cover 104 %					
	GC Invasives % Cover 1%					
	GC Hydrophyte % Cover (non invasives only)	78%				
	Native Shrub Stem Count 3					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-7
Date: 09-17-14
Staff: Randy Christensen & Ally Sullivan
Weather Conditions: Calm, Cool, Clear, 70's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	29 %	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	25 %	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	21 %	Y		FAC
Purple stem aster	*Symphyotrichum puniceum*	GC	13 %	N		OBL
Late goldenrod	*Solidago gigantea*	GC	10 %	N		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	8 %	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	7 %	N		FACW
Sphagnum moss	*Sphagnum sp.*	GC	5 %	N		OBL
Fowl bluegrass	*Poa palustris*	GC	4 %	N		FACW
Blue vervain	*Verbena hastata*	GC	3 %	N		FACW
Crown vetch	*Securigera varia*	GC	3 %	N		NI
Purple loostestrife	*Lythrum salicaria*	GC	3 %	N	YES	OBL
English plantain	*Plantago lanceolata*	GC	2 %	N		FACU
Dewberry	*Rubus hispidus*	GC	2 %	N		FACW
Highbush Cranberry	*Viburnum opulus*	S	3 Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	2 Stem			FACW
Cottonwood	*Populus deltoides*	S	1 Stem			FAC
Tamarack	*Larix laricina*	S	1 Stem			FACW
Speckled Alder	*Alnus rugosa*	S	1 Stems			FACW
	GC % Cover 135 %					
	GC Invasives % Cover 2%					
	GC Hydrophyte % Cover (non invasives only)	94%				
	Native Shrub Stem Count 8					
	Invasive Shrub Stem Count 0					

Notes:
Purple loosestrife 4 stems

Monitoring Plot Identifier: E-8

Photograph Taken? Y

Date: 09-17-14

Herbivory Noted? N

Staff: Randy Christensen & Ally Sullivan

Other Disturbance? N

Weather Conditions: Calm, Cool, Clear, 70's

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	14	%	Y		FACW
Sphagnum moss	*Sphagnum sp.*	GC	12	%	Y		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	11	%	Y		OBL
Fowl bluegrass	*Poa palustris*	GC	9	%	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	8	%	Y		FAC
Dark green bulrsh	*Scirpus atrovirens*	GC	7	%	N		OBL
Rough bluegrass	*Poa trivialis*	GC	5	%	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
Fox sedge	*Carex vulpinodea*	GC	3	%	N		OBL
Deer tongue grass	*Dichanthelium clandestinum*	GC	3	%	N		FACW
Graceful sedge	*Carex gracillima*	GC	3	%	N		FACU
Purple loosestrife	*Lythrum sallicaria*	GC	3	%	N	YES	OBL
English plantain	*Plantago lanceolata*	GC	3	%	N		FACU
Lurid sedge	*Carex lurida*	GC	3	%	N		OBL
Crown vetch	*Securigera varia*	GC	3	%	N		NI
Boneset	*Eupatorium perfoliatum*	GC	2	%	N		FACW
Red clover	*Trifolium pratense*	GC	1	%	N		FACU
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Tamarack	*Larix laricina*	S	2	Stems			FACW
Bebb Willow	*Salix bebbiana*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC
	GC % Cover	95 %					
	GC Invasives % Cover	3%					
	GC Hydrophyte % Cover (non invasives only)	86%					
	Native Shrub Stem Count	6					
	Invasive Shrub Stem Count	0					

Notes:
Purple loosestrife 3 stems

Monitoring Plot Identifier: E-1	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 75, partly cloudy	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
New York aster	*Symphyotrichum novi-belgii*	GC		18	%	Y		FACW
Military rush	*Juncus militaris*	GC		18	%	Y		OBL
Fox sedge	*Carex vulpinoidea*	GC		12	%	N		OBL
Fowl bluegrass	*Poa palustris*	GC		8	%	N		OBL
Lurid sedge	*Carex lurida*	GC		6	%	N		OBL
Cottonwood seedlings	*Populus deltoides*	GC		3	%	N		FAC
Bedstraw	*Galium mollugo*	GC		3	%	N		FACU
Tall goldenrod	*Solidago altissima*	GC		1	%	N		FACU
Willow	*Salix sp.*	S	7	8	%	Y		FACW
Red osier dogwood	*Cornus sericea*	S	2	3	%	N		FACW
Green ash	*Fraxinus pennsylvanica*	S	1	2	%	N		FACW
Speckled alder	*Alnus incana*	S	1	2	%	N		FACW
Highbush cranberry	*Viburnum opulus*	S	1	2	%	N		FACW
	GC % Cover	69 %						
	GC Invasives % Cover	0%						
	GC Hydrophyte % Cover (non invasives only)	94%						
	S % Cover	17 %						
	Native Shrub Stem Count	12						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: E-2	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 75, partly cloudy	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC		27	%	Y		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC		16	%	Y		OBL
Bedstraw	*Galium mollugo*	GC		10	%	N		FACU
Fox sedge	*Carex vulpinoidea*	GC		7	%	N		OBL
Late goldenrod	*Solidago gigantea*	GC		6	%	N		FACW
Colt's foot	*Tussilago farfara*	GC		3	%	N	YES	FACU
Crown vetch	*Securigera varia*	GC		3	%	N		NI
Highbush Cranberry	*Viburnum opulus*	S	2	4	%	Y		FACW
Arrowwood	*Viburnum dentatum*	S	2	4	%	Y		FAC
Cottonwood	*Populus deltoides*	S	1	1	%	N		FAC
Willow	*Salix sp.*	S	2	1	%	N		FACW
	GC % Cover	72 %						
	GC Invasives % Cover	0%						
	GC Hydrophyte % Cover (non invasives only)	78%						
	S % Cover	10 %						
	Native Shrub Stem Count	7						
	Invasive Shrub Stem Count	0						

Notes Stantec 3 data logger at well #1 at this site

Monitoring Plot Identifier: E-3	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 75, partly cloudy	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Late goldenrod	*Solidago gigantea*	GC		18	%	Y		FACW
Bedstraw	*Galium mollugo*	GC		12	%	Y		FACU
Redtop grass	*Agrostis gigantea*	GC		12	%	Y		FACW
Deer-tongue grass	*Dichanthelium clandestinum*	GC		7	%	N		FACW
Yarrow	*Achillea millefolium*	GC		2	%	N		FACU
Cottonwood seedlings	*Populus deltoides*	GC		2	%	N		FAC
Willow	*Salix sp.*	S	3	11	%	Y		NI
Highbush cranberry	*Viburnum opulus*	S	1	2	%	N		FACW
Box elder	*Acer negundo*	S	1	2	%	N		FAC
	GC % Cover	53 %						
	GC Invasives % Cover	0%						
	GC Hydrophyte % Cover (non invasives only)	74%						
	S % Cover	15 %						
	Native Shrub Stem Count	5						
	Invasive Shrub Stem Count	0						

Notes Stantec 6 and baro logger at well #2 at this site

Monitoring Plot Identifier: E-4	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 75, partly cloudy	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Bedstraw	*Galium mollugo*	GC		12	%	Y		FACU
Late goldenrod	*Solidago gigantea*	GC		6	%	Y		FACW
Blue-stemmed goldenrod	*Solidago caesia*	GC		5	%	Y		FACU
Crown vetch	*Securigera varia*	GC		5	%	Y		NI
Path rush	*Juncus tenuis*	GC		5	%	Y		FAC
Common cinquefoil	*Potentilla simplex*	GC		4	%	N		FAC
Red clover	*Trifolium pratense*	GC		2	%	N		FACU
Redtop grass	*Agrostis gigantea*	GC		2	%	N		FACW
Tamarack	*Larix laricina*	S	3	9	%	Y		FACW
Highbush Cranberry	*Viburnum opulus*	S	2	6	%	Y		FACW
	GC % Cover	41 %						
	GC Invasives % Cover	0%						
	GC Hydrophyte % Cover (non invasives only)	41%						
	S % Cover	15 %						
	Native Shrub Stem Count	5						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: E-5	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 75, partly cloudy	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Late goldenrod	*Solidago gigantea*	GC		27	%	Y		FACW
Bedstraw	*Galium mollugo*	GC		15	%	Y		FACU
Blue-stemmed goldenrod	*Solidago caesia*	GC		5	%	N		FACU
Redtop grass	*Agrostis gigantea*	GC		4	%	N		FACW
Common cinquefoil	*Potentilla simplex*	GC		3	%	N		FAC
Crown vetch	*Securigera Securigera varia*	GC		2	%	N		NI
Willow	*Salix sp.*	S	2	3	%	Y		FACW
	GC % Cover	56 %						
	GC Invasives % Cover	0%						
	GC Hydrophyte % Cover (non invasives only)	61%						
	S % Cover	3 %						
	Native Shrub Stem Count	2						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: E-6	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 70, partly cloudy	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover	Dominant	Invasive?	Hydric Indicator
Late goldenrod	*Solidago gigantea*	GC		18 %	Y		FACW
Bedstraw	*Galium mollugo*	GC		11 %	Y		NI
Redtop grass	*Agrostis gigantea*	GC		7 %	N		FACW
Blue-stemmed goldenrod	*Solidago caesia*	GC		6 %	N		FACU
Blue-eyed grass	*Sisyrinchium angustifolium*	GC		5 %	N		FAC
Path rush	*Juncus tenuis*	GC		5 %	N		FAC
Crown vetch	*Securigera varia*	GC		4 %	N		FACU
Golden Alexanders	*Zizia aurea*	GC		2 %	N		FAC
Speckled alder	*Alnus incana*	S	1	4 %	Y		FACW
Arrowwood	*Viburnum dentatum*	S	1	3 %	Y		FAC
	GC % Cover	58 %					
	GC Invasives % Cover	0%					
	GC Hydrophyte % Cover (non invasives only)	64%					
	S % Cover	7 %					
	Native Shrub Stem Count	2					
	Invasive Shrub Stem Count	0					

Notes

Monitoring Plot Identifier: E-7	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: partly cloudy	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover	Percent Dominance	Dominant	Invasive?	Hydric Indicator
Late goldenrod	*Solidago gigantea*	GC		9	%	Y		FACW
Redtop grass	*Agrostis gigantea*	GC		9	%	Y		FACW
Crown vetch	*Securigera varia*	GC		9	%	Y		NI
New York aster	*Symphyotrichum novi-belgii*	GC		6	%	Y		FACW
Rough goldenrod	*Solidago rugosa*	GC		6	%	Y		FAC
Deer-tongue grass	*Dichanthelium clandestinum*	GC		6	%	Y		FACW
Bedstraw	*Galium mollugo*	GC		5	%	N		FACU
Soft rush	*Juncus effusus*	GC		4	%	N		OBL
Round-leaf goldenrod	*Solidago patula*	GC		3	%	N		OBL
Blue-stemmed goldenrod	*Solidago caesia*	GC		3	%	N		FACU
Highbush Cranberry	*Viburnum opulus*	S	3	11	%	Y		FACW
Red Osier Dogwood	*Cornus sericea*	S	2	6	%	Y		FACW
Speckled Alder	*Alnus incana*	S	1	2	%	N		FACW
Tamarack	*Larix laricina*	S	1	2	%	N		FACW
	GC % Cover	60 %						
	GC Invasives % Cover	0%						
	GC Hydrophyte % Cover (non invasives only)	72%						
	S % Cover	21 %						
	Native Shrub Stem Count	7						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: E-8	**Photograph Taken? Yes**
Date: 6/5/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 75, partly cloudy	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover	Percent Dominance	Dominant	Invasive?	Hydric Indicator
Bedstraw	*Galium mollulgo*	GC		18	%	Y		FACU
Fox sedge	*Carex vulpinoidea*	GC		18	%	Y		OBL
New York aster	*Symphyotrichum novi-belgii*	GC		9	%	N		FACW
Redtop grass	*Agrostis gigantea*	GC		6	%	N		FACW
Deer-tongue grass	*Dichanthelium clandestinum*	GC		5	%	N		FACU
Crown vetch	*Securigera varia*	GC		4	%	N		NI
Spearmint	*Mentha spicata*	GC		3	%	N		FACW
Swamp buttercup	*Ranunculus septentrionalis*	GC		3	%	N		FAC
Tamarack	*Larix laricina*	S	2	8	%	Y		FACW
Red osier dogwood	*Cornus sericea*	S	2	3	%	Y		FACW
Willow	*Salix sp.*	S	1	2	%	N		FACW
	GC % Cover	66 %						
	GC Invasives % Cover	0%						
	GC Hydrophyte % Cover (non invasives only)	59%						
	S % Cover	13 %						
	Native Shrub Stem Count	5						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: E-1

Date: 10-02-15

Staff: Randy Christensen

Weather Conditions: Partly Cloudy mid 60's, 2" rain past Wednesday

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Fox sedge	*Carex vulpinodea*	GC	16	%	Y		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	15	%	Y		OBL
Redtop grass	*Agrostis gigantea*	GC	10	%	Y		FACW
Purple loosestrife	*Lythrum sallicaria*	GC	8	%	Y	YES	OBL
Small white aster	*Symphyotrichum racemosum*	GC	8	%	Y		FACW
Sphagnum moss	*Sphagnum sp.*	GC	6	%	N		OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	6	%	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	6	%	N		FACW
Dark green bulrsh	*Scirpus atrovirens*	GC	6	%	N		OBL
Soft rush	*Juncus effusus*	GC	6	%	N		OBL
Military rush	*Juncus militaris*	GC	6	%	N		OBL
Fowl bluegrass	*Poa palustris*	GC	5	%	N		FACW
Boneset	*Eupatorium perfoliatum*	GC	3	%	N		FACW
Blue stem goldenrod	*Solidago caesia*	GC	3	%	N		FACU
Red Clover	*Trifolium pratense*	GC	3	%	N		FACU
Willow seedlings	*Salix sp.*	GC	3	%	N		NI
Rough bluegrass	*Poa trivialis*	GC	2	%	N		FACW
Crown vetch	*Securigera varia*	GC	2	%	N		NI
Bebb Willow	*Salix bebbiana*	S	12	Stems			FACW
Cottonwood	*Populus deltoides*	S	10	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	5	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Highbush Cranberry	*Viburnum opulus*	S	2	Stems			FACW
Red Raspberry	*Rubus idaeus*	S	1	Stem			FACU
Boxelder	*Acer negundo*	S	1	Stem			FAC

GC % Cover	114	%
GC Invasives % Cover	7%	
GC Hydrophyte % Cover (non invasives only)	83%	
Native Shrub Stem Count	33	
Invasive Shrub Stem Count	0	

Notes:
Purple loosestrife 12 stems

Monitoring Plot Identifier: E-2

Date: 10-02-15

Staff: Randy Christensen

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	45	%	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	18	%	Y		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	12	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	8	%	N		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	7	%	N		FAC
Sphagnum moss	*Sphagnum sp.*	GC	6	%	N		OBL
Fox sedge	*Carex vulpinoidea*	GC	6	%	N		OBL
Coltsfoot	*Tussilago farfara*	GC	5	%	N	YES	FACU
Purple loosestrife	*Lythrum salicaria*	GC	5	%	N	YES	OBL
Blue vervain	*Verbena hastata*	GC	5	%	N		FACW
Late goldenrod	*Solidago gigantea*	GC	3	%	N		FACW
Spearmint	*Mentha spicata*	GC	3	%	N		FACW
Red maple seedlings	*Acer rubrum*	GC	3	%	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	3	%	N		FACW
Crown vetch	*Securigera varia*	GC	2	%	N		NI
Cottonwood	*Populus deltoides*	S	3	Stems			FAC
Bebb Willow	*Salix bebbiana*	S	3	Stems			FACW
Highbush Cranberry	*Viburnum opulus*	S	2	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	2	Stems			FAC
Red Raspberry	*Rubus ideaus*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC

GC % Cover	131 %	
GC Invasives % Cover	8%	
GC Hydrophyte % Cover (non invasives only)		91%
Native Shrub Stem Count	12	
Invasive Shrub Stem Count	0	

Notes:

Coltsfoot 12 stems

Purple loosestrife 16 stems

Monitoring Plot Identifier: E-3

Date: 10-02-15

Staff: Randy Christensen

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	38	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	16	%	Y		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	16	%	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	15	%	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	6	%	N		FACW
Late goldenrod	*Solidago gigantea*	GC	4	%	N		FACW
New York aster	*Symphyotrichum novi-belgii*	GC	3	%	N		FACW
Blue vervain	*Verbena hastata*	GC	2	%	N		FACW
Bebb Willow	*Salix bebbiana*	S	2	Stems			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC
Highbush cranberry	*Viburnum opulus*	S	1	Stem			FACW
Arrowwood	*Viburnum dentatum*	S	1	Stem			FAC
	GC % Cover 100 %						
	GC Invasives % Cover 0%						
	GC Hydrophyte % Cover (non invasives only)	100%					
	Native Shrub Stem Count 5						
	Invasive Shrub Stem Count 0						

Plant Monitoring Form

Monitoring Plot Identifier: E-4	**Photograph Taken? Y**
Date: 10-02-15	**Herbivory Noted? N**
Staff: Randy Christensen	**Other Disturbance? N**
Weather Conditions: Partly Cloudy mid 60's	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	21 %	Y		FACW
Small white aster	*Symphyotrichum racemosum*	GC	10 %	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	8 %	Y		FAC
Crown vetch	*Securigera varia*	GC	8 %	Y		NI
Late goldenrod	*Solidago gigantea*	GC	6 %	N		FACW
Tall goldenrod	*Solidago altissima*	GC	6 %	N		FACU
Redtop grass	*Agrostis gigantea*	GC	6 %	N		FACW
Northern bedstraw	*Galium boreale*	GC	5 %	N		FAC
Red clover	*Trifolium pratense*	GC	3 %	N		FACU
Tamarack	*Larix laricina*	S	2 Stems			FACW
Highbush Cranberry	*Viburnum opulus*	S	2 Stems			FACW
	GC % Cover 73 %					
	GC Invasives % Cover 0%					
	GC Hydrophyte % Cover (non invasives only)	77%				
	Native Shrub Stem Count 4					
	Invasive Shrub Stem Count 0					

Plant Monitoring Form

Monitoring Plot Identifier: E-5	**Photograph Taken? Y**
Date: 10-02-15	**Herbivory Noted? N**
Staff: Randy Christensen	**Other Disturbance? N**
Weather Conditions: Partly Cloudy mid 60's	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Grassleaf goldenrod	*Euthamia graminifolia*	GC	28 %	Y		FAC
Rough bluegrass	*Poa trivialis*	GC	12 %	Y		FACW
Bluestem goldenrod	*Solidago caesia*	GC	12 %	Y		FACU
Redtop grass	*Agrostis gigantea*	GC	6 %	N		FACW
Late goldenrod	*Solidago gigantea*	GC	6 %	N		FACW
Tall goldenrod	*Solidago altissima*	GC	6 %	N		FACU
Rough goldenrod	*Solidago rugosa*	GC	6 %	N		FAC
Purple stem aster	*Symphyotrichum puniceum*	GC	5 %	N		OBL
Small white aster	*Symphyotrichum racemosum*	GC	4 %	N		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	3 %	N		FACW
Crown vetch	*Securigera varia*	GC	2 %	N		NI
Bebb Willow	*Salix bebbiana*	S	2 Stems			FACW
Red Raspberry	*Rubus ideaus*	S	1 Stem			FACW
Red Osier Dogwood	*Cornus sericea*	S	1 Stem			FACW
	GC % Cover 90 %					
	GC Invasives % Cover 0%					
	GC Hydrophyte % Cover (non invasives only)	78%				
	Native Shrub Stem Count 4					
	Invasive Shrub Stem Count 0					

Plant Monitoring Form

Monitoring Plot Identifier: E-6
Date: 10-02-15
Staff: Randy Christensen
Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Sphagnum moss	*Sphagnum sp.*	GC	24 %	Y		OBL
Small white aster	*Symphyotrichum racemosum*	GC	12 %	Y		FACW
Redtop grass	*Agrostis gigantea*	GC	11 %	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	9 %	Y		FAC
Late goldenrod	*Solidago gigantea*	GC	6 %	N		FACW
Crown vetch	*Securigera varia*	GC	6 %	N		NI
Deer tongue grass	*Dichanthelium clandestinum*	GC	5 %	N		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	5 %	N		OBL
Rough goldenrod	*Solidago rugosa*	GC	5 %	N		FAC
Blue stem goldenrod	*Solidago caesia*	GC	5 %	N		FACU
Tall goldenrod	*Solidago altissima*	GC	4 %	N		FACU
Summer grape	*Vitis aestivalis*	GC	4 %	N		FACU
Red clover	*Trifolium pratense*	GC	2 %	N		FACU
New York Aster	*Symphyotrichum novi-belgii*	GC	2 %	N		FACW
Water hemlock	*Cicuta sp.*	GC	2 %	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	1 %	N	YES	OBL
Common cinquefoil	*Potentilla simplex*	GC	1 %	N		FACU
Cottonwood	*Populus deltoides*	S	2 Stems			FAC
Arrowwood	*Viburnum dentatum*	S	2 Stems			FAC
Speckled alder	*Alnus incana*	S	1 Stem			FACW
Red Osier Dogwood	*Cornus alba*	S	1 Stem			FACW
	GC % Cover 104 %					
	GC Invasives % Cover 1%					
	GC Hydrophyte % Cover (non invasives only)	78%				
	Native Shrub Stem Count 6					
	Invasive Shrub Stem Count 0					

Notes:
Purple loosestrife 1 stem

Monitoring Plot Identifier: E-7	**Photograph Taken? Y**
Date: 10-02-15	**Herbivory Noted? N**
Staff: Randy Christensen	**Other Disturbance? N**
Weather Conditions: Partly Cloudy mid 60's	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	31 %	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	21 %	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	18 %	Y		OBL
Purple loosestrife	*Lythrum salicaria*	GC	15 %	Y	YES	OBL
Grassleaf goldenrod	*Euthamia graminifolia*	GC	10 %	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	8 %	N		FACW
Military rush	*Juncus militaris*	GC	7 %	N		OBL
Late goldenrod	*Solidago gigantea*	GC	6 %	N		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	5 %	N		FACW
Sphagnum moss	*Sphagnum sp.*	GC	5 %	N		OBL
Northern bedstraw	*Galium boreale*	GC	5 %	N		FAC
Bluestem goldenrod	*Solidago caesia*	GC	4 %	N		FACU
Blue vervain	*Verbena hastata*	GC	3 %	N		FACW
Fowl bluegrass	*Poa palustris*	GC	3 %	N		FACW
Dewberry	*Rubus hispidus*	GC	2 %	N		FACW
Crown vetch	*Securigera varia*	GC	2 %	N		NI
Cottonwood	*Populus deltoides*	S	11 Stems			FAC
Highbush Cranberry	*Viburnum opulus*	S	3 Stems			FACW
Bebb Willow	*Salix bebbiana*	S	2 Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	2 Stems			FACW
Tamarack	*Larix laricina*	S	1 Stem			FACW
Speckled Alder	*Alnus incana*	S	1 Stem			FACW
	GC % Cover 145 %					
	GC Invasives % Cover 10%					
	GC Hydrophyte % Cover (non invasives only)	86%				
	Native Shrub Stem Count 20					
	Invasive Shrub Stem Count 0					

Monitoring Plot Identifier: E-8

Date: 10-02-15

Staff: Randy Christensen

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	18	%	Y		FACW
Grassleaf goldenrod	*Euthamia graminifolia*	GC	16	%	Y		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	12	%	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	12	%	Y		OBL
Fox sedge	*Carex vulpinodea*	GC	8	%	Y		OBL
Sphagnum moss	*Sphagnum sp.*	GC	8	%	Y		OBL
Fowl bluegrass	*Poa palustris*	GC	8	%	Y		FACW
Small white aster	*Symphyotrichum racemosum*	GC	7	%	N		FACW
Rough bluegrass	*Poa trivialis*	GC	5	%	N		FACW
Purple loosestrife	*Lythrum sallicaria*	GC	5	%	N	YES	OBL
Rough goldenrod	*Solidago rugosa*	GC	5	%	N		FAC
Graceful sedge	*Carex gracillima*	GC	3	%	N		FACU
Dark green bulrsh	*Scirpus atrovirens*	GC	3	%	N		OBL
Lurid sedge	*Carex lurida*	GC	3	%	N		OBL
English plantain	*Plantago lanceolata*	GC	2	%	N		FACU
Boneset	*Eupatorium perfoliatum*	GC	2	%	N		FACW
Cottonwood	*Populus deltoides*	S	2	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Bebb Willow	*Salix bebbiana*	S	2	Stems			FACW
Highbush Cranberry	*Viburnum opulus*	S	2	Stems			FACW
Larch	*Larix laricina*	S	2	Stems			FACW
Grey dogwood	*Cornus racemosa*	S	1	Stem			FAC
Red maple	*Acer rubrum*	S	1	Stem			FAC
Boxelder	*Acer negundo*	S	1	Stem			FAC
	GC % Cover 117 %						
	GC Invasives % Cover 4%						
	GC Hydrophyte % Cover (non invasives only)	91%					
	Native Shrub Stem Count 13						
	Invasive Shrub Stem Count 0						

Notes: Purple loosestrife 5 stems

Monitoring Plot Identifier: I-1

Date: 10-22-12

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Invasive?	Hydric Indicator
		GC		%		
		GC		%		
		GC		%		
		GC		%		
SHRUB COUNT ONLY		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
Cottonwood	*Populus deltoides*	S	54	Stems		FAC
Red Osier Dogwood	*Cornus sericea*	S	1	Stem		FACW+
Speckled Alder	*Alnus incana*	S	2	Stems		FACW

GC % Cover	%
GC Invasives % Cover	
GC Hydrophyte % Cover (non invasives only)	%
Native Shrub Stem Count	57
Invasive Shrub Stem Count	0

Monitoring Plot Identifier: I-2

Date: 10-22-12

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Invasive?	Hydric Indicator
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
SHRUB COUNT ONLY		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
Cottonwood (seedlings)	*Populus deltoides*	S	86	Stems		FAC
Red Osier Dogwood	*Cornus sericea*	S	2	Stems		FACW+
Willow	*Salix sp*	S	4	Stems		(FACW)
	GC % Cover	%				
	GC Invasives % Cover					
	GC Hydrophyte % Cover (non invasives only)	%				
	Native Shrub Stem Count	92				
	Invasive Shrub Stem Count	0				

Monitoring Plot Identifier: I-3

Date: 10-22-12

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Invasive?	Hydric Indicator
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
SHRUB COUNT ONLY		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
		GC		%		
Cottonwood (SEEDLINGS)	*Populus deltoides*	S	25	Stems		FAC
Red Osier Dogwood	*Cornus sericea*	S	1	Stem		FACW+
Arrowwood	*Viburnum dentatum*	S	3	Stems		FAC
	GC % Cover	%				
	GC Invasives % Cover					
	GC Hydrophyte % Cover (non invasives only)	%				
	Native Shrub Stem Count	29				
	Invasive Shrub Stem Count	0				

Monitoring Plot Identifier: I-4
Date: 10-22-12
Staff: Kate Foley
Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Invasive?	Hydric Indicator
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
Cottonwood (SEEDLINGS)	*Populus deltoides*	S	34 Stems		FAC
Red Osier Dogwood	*Cornus sericea*	S	3 Stems		FACW+
Speckled Alder	*Alnus incana*	S	1 Stem		FACW
Willow	*Salix sp.*	S	2 Stems		(FACW)
	GC % Cover %				
	GC Invasives % Cover				
	GC Hydrophyte % Cover (non invasives only) %				
	Native Shrub Stem Count 40				
	Invasive Shrub Stem Count 0				

Monitoring Plot Identifier: I-5
Date: 10-22-12
Staff: Kate Foley
Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Invasive?	Hydric Indicator
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
Green Ash	*Fraxinus pennsylvanica*	S	1 Stem		FACW
Cottonwood (SEEDLINGS)	*Populus deltoides*	S	23 Stems		FAC
Red Osier Dogwood	*Cornus sericea*	S	1 Stem		FACW+
Arrowwood	*Viburnum dentatum*	S	5 Stems		FAC
Red Maple Seedling	*Acer rubrum*	S	4 Stems		FAC
	GC % Cover %				
	GC Invasives % Cover %				
	GC Hydrophyte % Cover (non invasives only) %				
	Native Shrub Stem Count 34				
	Invasive Shrub Stem Count 0				

Monitoring Plot Identifier: I-6
Date: 10-22-12
Staff: Kate Foley
Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Invasive?	Hydric Indicator
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
SHRUB COUNT ONLY		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
Cottonwood (SEEDLINGS)	*Populus deltoides*	S	16 Stems		FAC
Arrowwood	*Viburnum dentatum*	S	2 Stems		FACW+
Highbush Cranberry	*Viburnum opulus*	S	2 Stems		FACW
Willow	*Salix sp.*	S	2 Stems		(FACW)
	GC % Cover %				
	GC Invasives % Cover %				
	GC Hydrophyte % Cover (non invasives only) %				
	Native Shrub Stem Count 22				
	Invasive Shrub Stem Count 0				

Monitoring Plot Identifier: I-7	**Photograph Taken? Y**
Date: 10-22-12	**Herbivory Noted? N**
Staff: Kate Foley	**Other Disturbance? N**
Weather Conditions: Partly Cloudy mid 50's	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Invasive?	Hydric Indicator
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
SHRUB COUNT ONLY		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
Cottonwood (SEEDLINGS)	*Populus deltoides*	S	38 Stems		FAC
Larch	*Larix decidua*	S	1 Stem		FACW
Green Ash	*Fraxinus pennsylvanica*	S	1 Stem		FACW
	GC % Cover %				
	GC Invasives % Cover				
	GC Hydrophyte % Cover (non invasives only) %				
	Native Shrub Stem Count 40				
	Invasive Shrub Stem Count 0				

Monitoring Plot Identifier: I-8
Date: 10-22-12
Staff: Kate Foley
Weather Conditions: Partly Cloudy mid 50's

Photograph Taken? Y
Herbivory Noted? N
Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover	Invasive?	Hydric Indicator
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
		GC	%		
Arrowwood	*Viburnum dentatum*	S	1 Stem		FAC
Cottonwood (SEEDLINGS)	*Populus deltoides*	S	60 Stems		FAC
Red Osier Dogwood	*Cornus sericea*	S	1 Stem		FACW+
Larch	*Larix decidua*	S	2 Stems		FACW
	GC % Cover %				
	GC Invasives % Cover				
	GC Hydrophyte % Cover (non invasives only) %				
	Native Shrub Stem Count 64				
	Invasive Shrub Stem Count 0				

Monitoring Plot Identifier: I-1

Date: 06/24/13

Staff: Randy Christensen

Weather Conditions: Sunny, high 70's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	12	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	8	%	Y		FACW
Switchgrass	*Panicum virgatum*	GC	5	%	Y		FAC
Red Clover	*Trifolium pratense*	GC	5	%	Y		FACU
Grass leaf goldenrod	*Euthamia graminifolia*	GC	5	%	Y		FAC
Coltsfoot	*Tussilago farfara*	GC	3	%	N	YES	FACU
Umbrella sedge	*Cyperus strigosus*	GC	3	%	N		FACW
Daisy fleabane	*Erigeron annuus*	GC	3	%	N		FACU
Common cinquefoil	*Potentilla simplex*	GC	3	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	1	%	N		FACW
Blackeyed susan	*Rudbeckia hirta*	GC	1	%	N		FACU
Cottonwood	*Populus deltoides*	S	41	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Bebb's Willow	*Salix Bebbiana*	S	1	Stem			FACW
	GC % Cover	49 %					
	GC Invasives % Cover	6%					
	GC Hydrophyte % Cover (non invasives only)	69%					
	Native Shrub Stem Count	46					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: I-2

Date: 06/24/13

Staff: Randy Christensen

Weather Conditions: Sunny, high 70's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Military rush	*Juncus militaris*	GC	11	%	Y		OBL
Common cattail	*Typha latifolia*	GC	9	%	Y		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	5	%	N		OBL
Redtop grass	*Agrostis gigantea*	GC	3	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	3	%	N	YES	OBL
Commom reed	*Phragmites australis*	GC	2	%	N	YES	FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	2	%	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	1	%	N		FACW
Red clover	*Trifolium pratense*	GC	1	%	N		FACU
Fox sedge	*Carex vulpinoidea*	GC	1	%	N		OBL
Bebb's Willow	*Salix Bebbiana*	S	23	Stems			FACW
Cottonwood	*Populus deltoides*	S	20	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW

GC % Cover	38	%
GC Invasives % Cover	13%	
GC Hydrophyte % Cover (non invasives only)	84%	
Native Shrub Stem Count	45	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-3

Date: 06/24/13

Staff: Randy Christensen

Weather Conditions: Sunny, high 70's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Red Clover	*Trifolium pratense*	GC	10	%	Y		FACU
Redtop grass	*Agrostis gigantea*	GC	9	%	Y		FACW
Northern Bedstraw	*Galium boreale*	GC	8	%	Y		FAC
Grass leaf goldenrod	*Euthamia graminifolia*	GC	6	%	N		FAC
Queen Anne's lace	*Daucus carota*	GC	6	%	N		UPL
Rough stem goldenrod	*Solidago rugosa*	GC	3	%	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	2	%	N		FACW
Rough bluegrass	*Poa trivialis*	GC	2	%	N		FACW
English plantain	*Plantago lanceolata*	GC	2	%	N		FACU
Blackeyed susan	*Rudbeckia hirta*	GC	2	%	N		FACU
Strawberry	*Fragaria vesca*	GC	2	%	N		UPL
Purple loosestrife	*Lythrum salicaria*	GC	2	%	N	YES	OBL
Cottonwood	*Populus deltoides*	S	30	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	3	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	2	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
	GC % Cover	54 %					
	GC Invasives % Cover	4%					
	GC Hydrophyte % Cover (non invasives only)	56%					
	Native Shrub Stem Count	36					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: I-4

Date: 06/24/13

Staff: Randy Christensen

Weather Conditions: Sunny, high 70's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	8	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	8	%	Y		FACW
Red Clover	*Trifolium pratense*	GC	5	%	Y		FACU
Military rush	*Juncus militaris*	GC	3	%	N		OBL
Small white aster	*Symphyotrichum racemosum*	GC	3	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	3	%	N	YES	OBL
Rose pink	*Sabatia angularis*	GC	3	%	N		FAC
Grass leaf goldenrod	*Euthamia graminifolia*	GC	1	%	N		FAC
Coltsfoot	*Tussilago farfara*	GC	1	%	N	YES	FACU
Cottonwood	*Populus deltoides*	S	16	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	4	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	3	Stems			FACW
	GC % Cover	35 %					
	GC Invasives % Cover	11%					
	GC Hydrophyte % Cover (non invasives only)	74%					
	Native Shrub Stem Count	23					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: I-5

Date: 06/24/13

Staff: Randy Christensen

Weather Conditions: Sunny, high 70's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	7	%	Y		FACW
Military rush	*Juncus militaris*	GC	5	%	Y		OBL
Red clover	*Trifolium pratense*	GC	3	%	Y		FACU
Grass leaf goldenrod	*Euthamia graminifolia*	GC	3	%	Y		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	3	%	Y		FACW
Common plantain	*Plantago major*	GC	2	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	2	%	N		FACW
Coltsfoot	*Tussilago farfara*	GC	2	%	N	YES	FACU
Rose pink	*Sabatia angularis*	GC	2	%	N		FAC
Purple loosestrife	*Lythrum salicaria*	GC	2	%	N	YES	OBL
Common cinquefoil	*Potentilla simplex*	GC	2	%	N		FACU
Cottonwood	*Populus deltoides*	S	22	Stems			FAC
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Green Ash	*Fraxinus pennsylvanica*	S	2	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Bebb's Willow	*Salix bebbiana*	S	1	Stem			FACW

GC % Cover	33	%
GC Invasives % Cover	12%	
GC Hydrophyte % Cover (non invasives only)	73%	
Native Shrub Stem Count	29	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-6

Date: 106/24/13

Staff: Randy Christensen

Weather Conditions: Sunny, high 70's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	12	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	12	%	Y		FACW
Red clover	*Trifolium pratense*	GC	2	%	N		FACU
Purple stem aster	*Symphyotrichum puniceum*	GC	2	%	N		FAC
Purple loosestrife	*Lythrum salicaria*	GC	2	%	N	YES	OBL
Deer tongue grass	*Dichanthelium clandestinum*	GC	2	%	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	1	%	N		FACW
Common plantain	*Plantago major*	GC	1	%	N		FACU
Military rush	*Juncus militaris*	GC	1	%	N		OBL
Cottonwood	*Populus deltoides*	S	8	Stems			FAC
Highbush Cranberry	*Viburnum opulus*	S	2	Stems			FACW
Bebb's Willow	*Salix bebbiana*	S	2	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	1	Stem			FAC

GC % Cover	35	%
GC Invasives % Cover	6%	
GC Hydrophyte % Cover (non invasives only)	86%	
Native Shrub Stem Count	13	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-7

Photograph Taken? Y

Date: 06/24/13

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions: Sunny, high 70's

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	28	%	Y		FACW
Red clover	*Trifolium pratense*	GC	15	%	Y		FACU
Grass leaf goldenrod	*Euthamia graminifolia*	GC	6	%	N		FAC
Rough bluegrass	*Poa trivialis*	GC	5	%	N		FACW
Daisy fleabane	*Erigeron annuus*	GC	3	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	2	%	N		FACW
Common sneezeweed	*Helenium autumnale*	GC	2	%	N		FACW
Common cinquefoil	*Potentilla simplex*	GC	2	%	N		FACU
English plantain	*Plantago lanceolata*	GC	1	%	N		FACU
Northern bedstraw	*Galium boreale*	GC	1	%	N		FAC
Blackeyed susan	*Rudbeckia hirta*	GC	1	%	N		FACU
Cottonwood	*Populus deltoides*	S	26	Stems			FAC
Tamarack	*Larix laricina*	S	1	Stem			FACW
Green ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW
Bebb's Willow	*Salix bebbiana*	S	1	Stem			FACW

GC % Cover	66	%
GC Invasives % Cover	0%	
GC Hydrophyte % Cover (non invasives only)	67%	
Native Shrub Stem Count	29	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-8

Date: 06/24/13

Staff: Randy Christensen

Weather Conditions: Sunny, high 70's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	10	%	Y		FACW
Red Clover	*Trifolium pratense*	GC	10	%	Y		FACU
Redtop grass	*Agrostis gigantea*	GC	8	%	Y		FACW
Northern bedstraw	*Galium boreale*	GC	4	%	N		FAC
Daisy fleabane	*Erigeron annuus*	GC	3	%	N		FACU
Common cinquefoil	*Potentilla simplex*	GC	3	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	1	%	N		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	1	%	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	1	%	N		FACW
Queen Anne's lace	*Daucus carota*	GC	1	%	N		UPL
Cottonwood	*Populus deltoides*	S	16	Stems			FAC
Tamarack	*Larix laricina*	S	2	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	1	Stem			FAC
Red Osier Dogwood	*Cornus sericia*	S	1	Stem			FACW
Bebb's Willow	*Salix bebbiana*	S	1	Stem			FACW
	GC % Cover 42 %						
	GC Invasives % Cover 0%						
	GC Hydrophyte % Cover (non invasives only)	60%					
	Native Shrub Stem Count 21						
	Invasive Shrub Stem Count 0						

Monitoring Plot Identifier: I-1

Date: 10-15-13

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	30	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	10	%	Y		FACW
Switchgrass	*Panicum virgatum*	GC	8	%	N		FAC
Red Clover	*Trifolium pratense*	GC	5	%	N		FACU
Coltsfoot	*Tussilago farfara*	GC	4	%	N	YES	FACU
Grass leaf goldenrod	*Euthamia graminifolia*	GC	4	%	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	2	%	N		FACW
Blackeyed susan	*Rudbeckia hirta*	GC	2	%	N		FACU
Umbrella sedge	*Cyperus strigosus*	GC	2	%	N		FACW
New York aster	*Symphyotrichum novi-belgii*	GC	2	%	N		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	1	%	N		FACW
Cottonwood (SEEDLINGS)	*Populus deltoides*	S	75	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Bebb's Willow	*Salix Bebbiana*	S	1	Stem			FACW

GC % Cover	70	%
GC Invasives % Cover	6%	
GC Hydrophyte % Cover (non invasives only)	84%	
Native Shrub Stem Count	80	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-2

Date: 10-15-13

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Military rush	*Juncus militaris*	GC	20	%	Y		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	20	%	Y		OBL
Common cattail	*Typha latifolia*	GC	10	%	N		OBL
Redtop grass	*Agrostis gigantea*	GC	6	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	5	%	N	YES	OBL
Commom reed	*Phragmites australis*	GC	4	%	N	YES	FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	3	%	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	3	%	N		FACW
Umbrella sedge	*Cyperus strigosus*	GC	2	%	N		FACW
Cottonwood (SEEDLINGS)	*Populus deltoides*	S	94	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	23	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW

GC % Cover	73	%
GC Invasives % Cover	12%	
GC Hydrophyte % Cover (non invasives only)	88%	
Native Shrub Stem Count	119	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-3

Date: 10-15-13

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	30	%	Y		FACW
Red Clover	*Trifolium pratense*	GC	10	%	Y		FACU
Grass leaf goldenrod	*Euthamia graminifolia*	GC	8	%	Y		FAC
Small white aster	*Symphyotrichum racemosum*	GC	6	%	N		FACW
Rough bluegrass	*Poa trivialis*	GC	5	%	N		FACW
English plantain	*Plantago lanceolata*	GC	5	%	N		FACU
Rough stem goldenrod	*Solidago rugosa*	GC	5	%	N		FAC
Queen Anne's lace	*Daucus carota*	GC	4	%	N		UPL
Northern Bedstraw	*Galium boreale*	GC	4	%	N		FAC
Blackeyed susan	*Rudbeckia hirta*	GC	3	%	N		FACU
Water dock	*Rumex orbiculatus*	GC	2	%	N		FACW
Strawberry	*Fragaria vesca*	GC	2	%	N		UPL
Purple loosestrife	*Lythrum salicaria*	GC	2	%	N	YES	OBL
Cottonwood	*Populus deltoides*	S	65	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	3	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	2	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW

GC % Cover	86	%
GC Invasives % Cover	2%	
GC Hydrophyte % Cover (non invasives only)	70%	
Native Shrub Stem Count	71	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-4

Date: 10-15-13

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	15	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	8	%	Y		FACW
Military rush	*Juncus militaris*	GC	8	%	Y		OBL
Small white aster	*Symphyotrichum racemosum*	GC	6	%	N		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	4	%	N		FAC
Red Clover	*Trifolium pratense*	GC	4	%	N		FACU
Coltsfoot	*Tussilago farfara*	GC	2	%	N	YES	FACU
Rough leaf goldenrod	*Solidago patula*	GC	2	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	2	%	N	YES	OBL
Rose pink	*Sabatia angularis*	GC	1	%	N		FAC
Cottonwood (SEEDLINGS)	*Populus deltoides*	S	41	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	4	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	3	Stems			FACW

GC % Cover	52	%
GC Invasives % Cover	8%	
GC Hydrophyte % Cover (non invasives only)	85%	
Native Shrub Stem Count	48	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-5

Date: 10-15-13

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	20	%	Y		FACW
Common plantain	*Plantago major*	GC	9	%	Y		FACU
Military rush	*Juncus militaris*	GC	8	%	Y		OBL
Red Clover	*Trifolium pratense*	GC	8	%	Y		FACU
Grass leaf goldenrod	*Euthamia graminifolia*	GC	8	%	Y		FAC
Strawberry	*Fragaria vesca*	GC	5	%	N		UPL
Small white aster	*Symphyotrichum racemosum*	GC	4	%	N		FACW
Coltsfoot	*Tussilago farfara*	GC	4	%	N	YES	FACU
Deer tongue grass	*Dichanthelium clandestinum*	GC	3	%	N		FACW
Rose pink	*Sabatia angularis*	GC	2	%	N		FAC
Purple loosestrife	*Lythrum salicaria*	GC	1	%	N	YES	OBL
Cottonwood	*Populus deltoides*	S	34	Stems			FAC
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Green ash	*Fraxinus pennsylvanica*	S	2	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Bebb's Willow	*Salix Bebbiana*	S	1	Stem			FACW
	GC % Cover	72 %					
	GC Invasives % Cover	7%					
	GC Hydrophyte % Cover (non invasives only)	63%					
	Native Shrub Stem Count	41					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: I-6

Date: 10-15-13

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	15	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	10	%	Y		FACW
Red Clover	*Trifolium pratense*	GC	8	%	Y		FACU
Purple stem aster	*Symphyotrichum puniceum*	GC	8	%	Y		FAC
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
Common plantain	*Plantago major*	GC	5	%	N		FACU
Foxtail	*Alopecurus pratensis*	GC	4	%	N		FAC
Military rush	*Juncus militaris*	GC	4	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	2	%	N	YES	OBL
Deer tongue grass	*Dichanthelium clandestinum*	GC	1	%	N		FACW
Commom reed	*Phragmites australis*	GC	1	%	N	YES	FACW
Cottonwood	*Populus deltoides*	S	12	Stems			FAC
highbiush cranberry	*Viburnum opulus*	S	2	Stems			FACW
Bebb's Willow	*Salix Bebbiana*	S	2	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	1	Stem			FAC
	GC % Cover	63 %					
	GC Invasives % Cover	5%					
	GC Hydrophyte % Cover (non invasives only)	75%					
	Native Shrub Stem Count	17					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: I-7

Date: 10-15-13

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	40	%	Y		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	15	%	Y		FAC
Red clover	*Trifolium pratense*	GC	10	%	N		FACU
Rough bluegrass	*Poa trivialis*	GC	8	%	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
English plantain	*Plantago lanceolata*	GC	3	%	N		FACU
Rough stem goldenrod	*Solidago rugosa*	GC	2	%	N		FAC
Northern bedstraw	*Galium boreale*	GC	2	%	N		FAC
Common sneezeweed	*Helenium autumnale*	GC	2	%	N		FACW
Blackeyed susan	*Rudbeckia hirta*	GC	1	%	N		FACU
Cottonwood (SEEDLINGS)	*Populus deltoides*	S	51	Stems			FAC
Tamarack	*Larix laricina*	S	1	Stem			FACW
Green ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW
Bebb's Willow	*Salix Bebbiana*	S	1	Stem			FACW
	GC % Cover	88 %					
	GC Invasives % Cover	0%					
	GC Hydrophyte % Cover (non invasives only)	84%					
	Native Shrub Stem Count	54					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: I-8

Date: 10-15-13

Staff: Kate Foley

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	20	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	15	%	Y		FACW
Red Clover	*Trifolium pratense*	GC	10	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
Northern bedstraw	*Galium boreale*	GC	3	%	N		FAC
Rough leaf goldenrod	*Solidago rugosa*	GC	2	%	N		FAC
Grass leaf goldenrod	*Euthamia graminifolia*	GC	2	%	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	1	%	N		FACW
Queen Anne's lace	*Daucus carota*	GC	1	%	N		UPL
Cottonwood (SEEDLINGS)	*Populus deltoides*	S	63	Stems			FAC
Tamarack	*Larix laricina*	S	2	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	1	Stem			FAC
Red Osier dogwood	*Cornus sericia*	S	1	Stem			FACW
Bebb's Willow	*Salix Bebbiana*	S	1	Stem			FACW
GC % Cover	59 %						
GC Invasives % Cover	0%						
GC Hydrophyte % Cover (non invasives only)		81%					
Native Shrub Stem Count	68						
Invasive Shrub Stem Count	0						

Monitoring Plot Identifier: I-1

Photograph Taken? Y

Date: 07-01-14

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	21	%	Y		FACW
Military rush	*Juncus militaris*	GC	7	%	Y		OBL
Rough bluegrass	*Poa trivialis*	GC	7	%	Y		FACW
Coltsfoot	*Tussilago farfara*	GC	5	%	N	YES	FACU
Switchgrass	*Panicum virgatum*	GC	4	%	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	3	%	N		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	3	%	N		FAC
Common cinquefoil	*Potentilla simplex*	GC	3	%	N		FACU
Boneset	*Eupatorium perfoliatum*	GC	2	%	N		FACW
Red clover	*Trifolium pratense*	GC	1	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	1	%	N		FACW
Cottonwood	*Populus deltoides*	S	47	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Bebb's Willow	*Salix Bebbiana*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC

Notes

GC % Cover	57	%
GC Invasives % Cover	9%	
GC Hydrophyte % Cover (non invasives only)	84%	
Native Shrub Stem Count	53	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-2

Photograph Taken? Y

Date: 07-01-14

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Military rush	*Juncus militaris*	GC	18	%	Y		OBL
Common cattail	*Typha latifolia*	GC	12	%	Y		OBL
Redtop grass	*Agrostis gigantea*	GC	8	%	Y		FACW
Dark green bulrush	*Scirpus atrovirens*	GC	7	%	N		OBL
Commom reed	*Phragmites australis*	GC	5	%	N	YES	FACW
Fox sedge	*Carex vulpinoidea*	GC	5	%	N		OBL
Deer tongue grass	*Dichanthelium clandestinum*	GC	5	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	4	%	N	YES	OBL
Umbrella sedge	*Cyperus strigosus*	GC	1	%	N		FACW
Cottonwood	*Populus deltoides*	S	54	Stems			FAC
Bebb's Willow	*Salix bebbiana*	S	27	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW

Notes

Water at surface	GC % Cover	65 %
Common reed 16 stems	GC Invasives % Cover	14%
Purple loosestrife 12 stems	GC Hydrophyte % Cover (non invasives only)	86%
	Native Shrub Stem Count	83
	Invasive Shrub Stem Count	0

Monitoring Plot Identifier: I-3

Photograph Taken? Y

Date: 07-01-14

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover			Invasive?	Hydric Indicator
					Dominant		
Redtop grass	*Agrostis gigantea*	GC	28	%	Y		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	12	%	Y		FAC
Small white aster	*Symphyotrichum racemosum*	GC	6	%	N		FACW
Red clover	*Trifolium pratense*	GC	6	%	N		FACU
Deertongue grass	*Dichanthelium clandestinum*	GC	5	%	N		FACW
Northern bedstraw	*Galium boreale*	GC	4	%	N		FAC
Rough bluegrass	*Poa trivialis*	GC	3	%	N		FACW
Rough stem goldenrod	*Solidago rugosa*	GC	3	%	N		FAC
Common reed	*Phragmites australis*	GC	3	%	N	YES	FACW
English plantain	*Plantago lanceolata*	GC	1	%	N		FACU
Water dock	*Rumex orbiculatus*	GC	1	%	N		FACW
Cottonwood	*Populus deltoides*	S	33	Stems			FAC
Bebb's Willow	*Salix bebbiana*	S	7	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW

Notes

GC % Cover	72 %
GC Invasives % Cover	4%
GC Hydrophyte % Cover (non invasives only)	86%
Native Shrub Stem Count	44
Invasive Shrub Stem Count	0

Common reed 7 stems

Monitoring Plot Identifier: I-4

Photograph Taken? Y

Date: 07-01-14

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	30	%	Y		FACW
Jointleaf rush	*Juncus articulatus*	GC	12	%	Y		FACW
Military rush	*Juncus militaris*	GC	8	%	N		OBL
Fox Sedge	*Carex vulpinoidea*	GC	8	%	N		OBL
Rough bluegrass	*Poa trivialis*	GC	6	%	N		FACW
Red Clover	*Trifolium pratense*	GC	5	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	4	%	N		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	3	%	N		FAC
Purple loosestrife	*Lythrum salicaria*	GC	3	%	N	YES	OBL
Coltsfoot	*Tussilago farfara*	GC	1	%	N	YES	FACU
Rough leaf goldenrod	*Solidago rugosa*	GC	1	%	N		FAC
Cottonwood	*Populus deltoides*	S	18	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	5	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	3	Stems			FACW

GC % Cover	81 %	
GC Invasives % Cover	5%	
GC Hydrophyte % Cover (non invasives only)		89%
Native Shrub Stem Count	26	
Invasive Shrub Stem Count	0	

Notes:
Purple loosestrife 4 stems

Monitoring Plot Identifier: I-5

Date: 07-01-14

Staff: Randy Christensen

Weather Conditions:

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	15	%	Y		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	8	%	Y		FAC
Rough bluegrass	*Poa trivialis*	GC	8	%	Y		FACW
Common plantain	*Plantago major*	GC	7	%	Y		FACU
Military rush	*Juncus militaris*	GC	5	%	N		OBL
Red clover	*Trifolium pratense*	GC	5	%	N		FACU
Deer tongue grass	*Dichanthelium clandestinum*	GC	5	%	N		FACW
Common reed	*Phragmites australis*	GC	5	%	N	YES	FACW
Coltsfoot	*Tussilago farfara*	GC	4	%	N	YES	FACU
Small white aster	*Symphyotrichum racemosum*	GC	3	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	3	%	N	YES	OBL
Cottonwood	*Populus deltoides*	S	10	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	4	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Green Ash	*Fraxinus pennsylvanica*	S	2	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Speckled Alder	*Alnus rugosa*	S	1	Stem			FACW

Notes

Saturated at surface

Common reed 12 stems

Purple loosestrife 28stems

GC % Cover	68	%
GC Invasives % Cover	18%	
GC Hydrophyte % Cover (non invasives only)	65%	
Native Shrub Stem Count	21	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-6

Date: 07-01-14

Staff: Randy Christensen

Weather Conditions:

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	23	%	Y		FACW
Redtop grass	*Agrostis gigantea*	GC	15	%	Y		FACW
Military rush	*Juncus militaris*	GC	5	%	N		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	3	%	N		FAC
Fowl bluegrass	*Poa palustris*	GC	3	%	N		FACW
Common plantain	*Plantago major*	GC	2	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	1	%	N		FACW
Red clover	*Trifolium pratense*	GC	1	%	N		FACU
Commom reed	*Phragmites australis*	GC	1	%	N	YES	FACW
Cottonwood	*Populus deltoides*	S	4	Stems			FAC
Highbush Cranberry	*Viburnum opulus*	S	2	Stems			FACW
Bebb's Willow	*Salix bebbiana*	S	2	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	1	Stem			FAC

Notes

GC % Cover	54	%
GC Invasives % Cover	2%	
GC Hydrophyte % Cover (non invasives only)	93%	%
Native Shrub Stem Count	9	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-7

Photograph Taken? Y

Date: 07-01-14

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	60	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	6	%	N		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	5	%	N		FAC
Red clover	*Trifolium pratense*	GC	4	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	3	%	N		FACW
Common sneezeweed	*Helenium autumnale*	GC	2	%	N		FACW
Rough stem goldenrod	*Solidago rugosa*	GC	1	%	N		FAC
English plantain	*Plantago lanceolata*	GC	1	%	N		FACU
Northern bedstraw	*Galium boreale*	GC	1	%	N		FAC
Blackeyed susan	*Rudbeckia hirta*	GC	1	%	N		FACU
Cottonwood	*Populus deltoides*	S	34	Stems			FAC
Tamarack	*Larix laricina*	S	3	Stems			FACW
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW
Bebb's Willow	*Salix Bebbiana*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC

Notes

GC % Cover	84	%
GC Invasives % Cover	0%	
GC Hydrophyte % Cover (non invasives only)	93%	
Native Shrub Stem Count	40	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-8

Photograph Taken? Y

Date: 07-01-14

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	31	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	12	%	N		FACW
Red clover	*Trifolium pratense*	GC	6	%	N		FACU
Deer tongue grass	*Dichanthelium clandestinum*	GC	6	%	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	3	%	N		FACW
Northern bedstraw	*Galium boreale*	GC	1	%	N		FAC
Rough leaf goldenrod	*Solidago rugosa*	GC	1	%	N		FAC
Grass leaf goldenrod	*Euthamia graminifolia*	GC	1	%	N		FAC
Fox sedge	*Carex vulpinoidea*	GC	1	%	N		OBL
Cottonwood	*Populus deltoides*	S	21	Stems			FAC
Tamarack	*Larix laricina*	S	3	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	2	Stems			FAC
Red Osier Dogwood	*Cornus sericia*	S	1	Stem			FACW
Bebb's Willow	*Salix bebbiana*	S	1	Stem			FACW

Notes

GC % Cover	62	%
GC Invasives % Cover	0%	
GC Hydrophyte % Cover (non invasives only)	90%	
Native Shrub Stem Count	28	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-1

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly Cloudy, light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	39	%	Y		FACW
Military rush	*Juncus militaris*	GC	16	%	Y		OBL
Rough bluegrass	*Poa trivialis*	GC	14	%	N		FACW
Switchgrass	*Panicum virgatum*	GC	9	%	N		FAC
Coltsfoot	*Tussilago farfara*	GC	6	%	N	YES	FACU
Deer tongue grass	*Dichanthelium clandestinum*	GC	5	%	N		FACW
Boneset	*Eupatorium perfoliatum*	GC	5	%	N		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	5	%	N		FAC
Red clover	*Trifolium pratense*	GC	2	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	2	%	N		FACW
Unknown sedge	*Carex sp.*	GC	2	%	N		FACW
Umbrella sedge	*Cyperus strigosus*	GC	2	%	N		FACW
New York aster	*Symphyotrichum novi-belgii*	GC	2	%	N		FACW
Cottonwood	*Populus deltoides*	S	75	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Bebb's Willow	*Salix Bebbiana*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC

Notes

GC % Cover	109	%
GC Invasives % Cover	6%	
GC Hydrophyte % Cover (non invasives only)	93%	
Native Shrub Stem Count	81	
Invasive Shrub Stem Count	0	

No invasives within 13'R

Moist soils - no inundation

Dry late August & early September

Surface water mostly absent from replication site

Monitoring Plot Identifier: I-2

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly cloudy, 60's, light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Military rush	*Juncus militaris*	GC	35	%	Y		OBL
Common cattail	*Typha latifolia*	GC	18	%	Y		OBL
Unknown rush	*Juncus sp.*	GC	12	%	N		FACW
Dark green bulrush	*Scirpus atrovirens*	GC	7	%	N		OBL
Redtop grass	*Agrostis gigantea*	GC	6	%	N		FACW
Commom reed	*Phragmites australis*	GC	4	%	N	YES	FACW
Fox sedge	*Carex vulpinoidea*	GC	3	%	N		OBL
Grass leaf goldenrod	*Euthamia graminifolia*	GC	3	%	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	3	%	N		FACW
Umbrella sedge	*Cyperus strigosus*	GC	2	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	2	%	N	YES	OBL
Cottonwood	*Populus deltoides*	S	72	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	27	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW

Notes

GC % Cover	95	%
GC Invasives % Cover	6%	
GC Hydrophyte % Cover (non invasives only)	94%	
Native Shrub Stem Count	101	
Invasive Shrub Stem Count	0	

Water at surface

Common reed 14 stems

Purple loosestrife 8 stems

Monitoring Plot Identifier: I-3

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly cloudy, 60's, light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	42	%	Y		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	12	%	Y		FAC
Small white aster	*Symphyotrichum racemosum*	GC	10	%	N		FACW
Red Clover	*Trifolium pratense*	GC	5	%	N		FACU
Rough bluegrass	*Poa trivialis*	GC	5	%	N		FACW
Rough stem goldenrod	*Solidago rugosa*	GC	5	%	N		FAC
Northern Bedstraw	*Galium boreale*	GC	4	%	N		FAC
English plantain	*Plantago lanceolata*	GC	3	%	N		FACU
Deertongue Grass	*Dichanthelium clandestinum*	GC	3	%	N		FACW
Common Reed	*Phragmites australis*	GC	3	%	N	YES	FACW
Water dock	*Rumex orbiculatus*	GC	2	%	N		FACW
Cottonwood	*Populus deltoides*	S	51	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	7	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW

Notes

Soil saturated @ 9"

Common reed 8 stems

GC % Cover	94	%
GC Invasives % Cover	3%	
GC Hydrophyte % Cover (non invasives only)	88%	
Native Shrub Stem Count	62	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-4

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly cloud, 60's. light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	28	%	Y		FACW
Unknown Rush	*Juncus sp.*	GC	16	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	14	%	Y		FACW
Military rush	*Juncus militaris*	GC	12	%	N		OBL
Small white aster	*Symphyotrichum racemosum*	GC	9	%	N		FACW
Fox Sedge	*Carex vulpinoidea*	GC	5	%	N		OBL
Grass leaf goldenrod	*Euthamia graminifolia*	GC	4	%	N		FAC
Red Clover	*Trifolium pratense*	GC	2	%	N		FACU
Coltsfoot	*Tussilago farfara*	GC	2	%	N	YES	FACU
Rough leaf goldenrod	*Solidago rugosa*	GC	2	%	N		FAC
Purple loosestrife	*Lythrum salicaria*	GC	2	%	N	YES	OBL
Cottonwood	*Populus deltoides*	S	18	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	5	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	3	Stems			FACW

GC % Cover	96 %
GC Invasives % Cover	4%
GC Hydrophyte % Cover (non invasives only)	94%
Native Shrub Stem Count	26
Invasive Shrub Stem Count	0

Notes:
Purple loosestrife 2 stems

Monitoring Plot Identifier: I-5

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly cloudy, 60's, light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	27	%	Y		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	12	%	Y		FAC
Common plantain	*Plantago major*	GC	9	%	Y		FACU
Rough bluegrass	*Poa trivialis*	GC	8	%	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	8	%	N		FACW
Military rush	*Juncus militaris*	GC	8	%	N		OBL
Red clover	*Trifolium pratense*	GC	5	%	N		FACU
Coltsfoot	*Tussilago farfara*	GC	4	%	N	YES	FACU
Deer tongue grass	*Dichanthelium clandestinum*	GC	3	%	N		FACW
Common reed	*Phragmites australis*	GC	2	%	N	YES	FACW
Purple loosestrife	*Lythrum salicaria*	GC	1	%	N	YES	OBL
Cottonwood	*Populus deltoides*	S	16	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	4	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Green Ash	*Fraxinus pennsylvanica*	S	2	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Speckled Alder	*Alnus rugosa*	S	1	Stem			FACW

Notes

Saturated at surface

Common reed 7 stems

Purple loosestrife 2 stems

GC % Cover	87	%
GC Invasives % Cover	8%	
GC Hydrophyte % Cover (non invasives only)	76%	
Native Shrub Stem Count	27	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-6

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly cloudy, 60's, light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	38	%	Y		FACW
Redtop grass	*Agrostis gigantea*	GC	18	%	Y		FACW
Purple stem aster	*Symphyotrichum puniceum*	GC	8	%	N		FAC
Military rush	*Juncus militaris*	GC	7	%	N		OBL
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
Red clover	*Trifolium pratense*	GC	3	%	N		FACU
Fowl bluegrass	*Poa palustris*	GC	2	%	N		FACW
Common plantain	*Plantago major*	GC	2	%	N		FACU
Deer tongue grass	*Dichanthelium clandestinum*	GC	1	%	N		FACW
Commom reed	*Phragmites australis*	GC	1	%	N	YES	FACW
Cottonwood	*Populus deltoides*	S	10	Stems			FAC
Highbush Cranberry	*Viburnum opulus*	S	2	Stems			FACW
Bebb's Willow	*Salix bebbiana*	S	2	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	1	Stem			FAC

Notes

Saturated at 12"

GC % Cover	85	%
GC Invasives % Cover	1%	
GC Hydrophyte % Cover (non invasives only)	93%	
Native Shrub Stem Count	15	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-7

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly Cloudy, 60's, light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	55	%	Y		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	12	%	N		FAC
Rough bluegrass	*Poa trivialis*	GC	8	%	N		FACW
Red clover	*Trifolium pratense*	GC	7	%	N		FACU
Rough stem goldenrod	*Solidago rugosa*	GC	6	%	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
English plantain	*Plantago lanceolata*	GC	3	%	N		FACU
Northern bedstraw	*Galium boreale*	GC	2	%	N		FAC
Common sneezeweed	*Helenium autumnale*	GC	2	%	N		FACW
Blackeyed susan	*Rudbeckia hirta*	GC	1	%	N		FACU
Cottonwood	*Populus deltoides*	S	41	Stems			FAC
Tamarack	*Larix laricina*	S	3	Stems			FACW
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW
Bebb's Willow	*Salix Bebbiana*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC

Notes

Saturation at 16"

GC % Cover	101	%
GC Invasives % Cover	0%	
GC Hydrophyte % Cover (non invasives only)	89%	
Native Shrub Stem Count	47	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-8

Date: 09-16-14

Staff: Randy Christensen & Ally Sullivan

Weather Conditions: Mostly Cloudy, 60's, light rain this AM <0.1"

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	28	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	15	%	Y		FACW
Red clover	*Trifolium pratense*	GC	8	%	N		FACU
Deer tongue grass	*Dichanthelium clandestinum*	GC	6	%	N		FACW
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
Northern bedstraw	*Galium boreale*	GC	3	%	N		FAC
Rough leaf goldenrod	*Solidago rugosa*	GC	2	%	N		FAC
Grass leaf goldenrod	*Euthamia graminifolia*	GC	2	%	N		FAC
Cottonwood	*Populus deltoides*	S	32	Stems			FAC
Tamarack	*Larix laricina*	S	3	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	2	Stems			FAC
Red Osier Dogwood	*Cornus sericia*	S	1	Stem			FACW
Bebb's Willow	*Salix Bebbiana*	S	1	Stem			FACW

Notes

Saturated at 9"

GC % Cover	69	%
GC Invasives % Cover	0%	
GC Hydrophyte % Cover (non invasives only)	88%	
Native Shrub Stem Count	39	
Invasive Shrub Stem Count	0	

Plant Monitoring Form

Monitoring Plot Identifier: I-1	**Photograph Taken? Yes**
Date: 6/4/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC		33	%	Y		FACW
Path rush	*Juncus tenuis*	GC		15	%	Y		FAC
Rough blue grass	*Poa trivialis*	GC		9	%	N		FACW
Graceful sedge	*Carex gracillima*	GC		6	%	N		FACU
Grass-leafed goldenrod	*Euthamia graminifolia*	GC		3	%	N		FAC
Soft rush	*Juncus effusus*	GC		2	%	N		OBL
Colt's foot	*Tussilago farfara*	GC		2	%	N	YES	FACU
Bedstraw	*Galium mollugo*	GC		2	%	N		FACU
Common cattail	*Typha latifolia*	GC		2	%	N		OBL
Boneset	*Eupatorium perfoliatum*	GC		1	%	N		FACW
Crown vetch	*Securigera varia*	GC		1	%	N		NI
Red clover	*Trifolium pratense*	GC		1	%	N		FACU
Cottonwood	*Populus deltoides*	S	14	11	%	Y		FAC
Speckled alder	*Alnus incana*	S	2	6	%	Y		FACW
Willow	*Salix sp.*	S	10	4	%	N		FACW
Red Osier Dogwood	*Cornus sericea*	S	2	1	%	N		FACW
Red Maple	*Acer rubrum*	S	1	1	%	N		FAC
	GC % Cover	77 %						
	GC Invasives % Cover	3%						
	GC Hydrophyte % Cover (non invasives only	84%						
	S % Cover	23 %						
	Native Shrub Stem Count	29						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: I-2	**Photograph Taken? Yes**
Date: 6/4/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Path rush	*Juncus tenuis*	GC		53	%	Y		FAC
Common cattail	*Typha latifolia*	GC		26	%	Y		OBL
Spike rush	*Eleocharis palustris*	GC		9	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	9	5	%	N	YES	OBL
Soft rush	*Juncus effusus*	GC		4	%	N		OBL
Rough blue grass	*Poa trivialis*	GC		4	%	N		FACW
Wool grass	*Scirpus cyperinus*	GC		3	%	N		OBL
Soft stem bulrush	*Securigera varia*	GC		2	%	N		OBL
Willow	*Salix sp.*	S	24	22	%	Y		FACW
Red osier dogwood	*Cornus sericea*	S	2	6	%	N		FACW
Cottonwood	*Populus deltoides*	S	13	3	%	N		FAC
Red maple	*Acer rubrum*	S	1	1	%	N		FAC
	GC % Cover	106 %						
	GC Invasives % Cover	5%						
	GC Hydrophyte % Cover (non invasives only)	95%						
	S % Cover	32 %						
	Native Shrub Stem Count	40						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: I-3	**Photograph Taken? Yes**
Date: 6/4/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC		58	%	Y		FACW
Path rush	*Juncus tenuis*	GC		11	%	N		FAC
Fox sedge	*Carex vulpinoidea*	GC		6	%	N		OBL
Bedstraw	*Galium mollugo*	GC		2	%	N		FACU
Rough goldenrod	*Solidago rugosa*	GC		2	%	N		FAC
Late goldenrod	*Solidago gigantea*	GC		2	%	N		FACW
Deer-tongue grass	*Dichanthelium clandestinum*	GC		2	%	N		FACW
Graceful sedge	*Carex gracillima*	GC		2	%	N		FACU
Crown vetch	*Securigera varia*	GC		1	%	N		NI
Arrowwood	*Viburnum dentatum*	S	3	7	%	Y		FAC
Red Osier Dogwood	*Cornus sericea*	S	2	6	%	Y		FACW
Willow	*Salix sp.*	S	7	5	%	Y		FACW
Cottonwood	*Populus deltoides*	S	6	1	%	N		FAC
	GC % Cover	86 %						
	GC Invasives % Cover	0%						
	GC Hydrophyte % Cover (non invasives only)	94%						
	S % Cover	19 %						
	Native Shrub Stem Count	18						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: I-4	**Photograph Taken? Yes**
Date: 6/4/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Path rush	*Juncus tenuis*	GC		28	%	Y		FAC
Redtop grass	*Agrostis gigantea*	GC		25	%	Y		FACW
Fox sedge	*Carex vulpinoidea*	GC		11	%	N		OBL
Rough blue grass	*Poa trivialis*	GC		10	%	N		FACW
Greater bladder sedge	*Carex intumescens*	GC		8	%	N		FACW
Wool grass	*Scirpus cyperinus*	GC		3	%	N		OBL
Willow seedlings	*Salix sp.*	GC		1	%	N		FACW
Common cattail	*Typha latifolia*	GC		1	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	1	1	%	N	YES	OBL
Willow	*Salix sp.*	S	8	5	%	Y		FACW
Cottonwood	*Populus deltoides*	S	8	5	%	Y		FAC
Red Osier Dogwood	*Cornus sericea*	S	3	4	%	Y		FACW
Speckled Alder	*Alnus incana*	S	1	2	%	N		FACW
	GC % Cover	88 %						
	GC Invasives % Cover	100%						
	GC Hydrophyte % Cover (non invasives only)	99%						
	S % Cover	16 %						
	Native Shrub Stem Count	20						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: I-5	**Photograph Taken? Yes**
Date: 6/4/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC		47	%	Y		FACW
Rough blue grass	*Poa trivialis*	GC		15	%	Y		FACW
Fox sedge	*Carex vulpinoidea*	GC		15	%	Y		OBL
Path rush	*Juncus tenuis*	GC		9	%	N		FAC
Common reed	*Phragmites australis*	GC	6	3	%	N	YES	FACW
Common cinquefoil	*Potentilla simplex*	GC		2	%	N		FACU
Blue-eyed grass	*Sisyrinchium angustifolium*	GC		2	%	N		FAC
Graceful sedge	*Carex gracillima*	GC		1	%	N		FACU
Purple loosestrife	*Lythrum salicaria*	GC	4	1	%	N	YES	OBL
Arrowwood	*Viburnum dentatum*	S	4	5	%	Y		FAC
Green ash	*Fraxinus pennsylvanica*	S	2	5	%	Y		FACW
Willow	*Salix sp.*	S	4	4	%	Y		FACW
Speckled alder	*Alnus incana*	S	1	2	%	N		FACW
	GC % Cover	95 %						
	GC Invasives % Cover	4%						
	GC Hydrophyte % Cover (non invasives only)	93%						
	S % Cover	16 %						
	Native Shrub Stem Count	11						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: I-6	**Photograph Taken? Yes**
Date: 6/4/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Rough blue grass	*Poa trivialis*	GC		59	%	Y		FACW
Redtop grass	*Agrostis gigantea*	GC		11	%	N		FACW
Path rush	*Juncus tenuis*	GC		4	%	N		FAC
Fox sedge	*Carex vulpinoidea*	GC		3	%	N		OBL
Common reed	*Phragmites australis*	GC	9	2	%	N	YES	FACW
Greater bladder sedge	*Carex intumescens*	GC		1	%	N		FACW
Grass-leaved goldenrod	*Euthamia graminifolia*	GC		1	%	N		FAC
Colt's foot	*Tussilago farfara*	GC		1	%	N	YES	FACU
Highbush Cranberry	*Viburnum opulus*	S	2	3	%	Y		FACW
Arrowwood	*Viburnum dentatum*	S	1	1	%	Y		FAC
	GC % Cover	82 %						
	GC Invasives % Cover	4%						
	GC Hydrophyte % Cover (non invasives only)	96%						
	S % Cover	4 %						
	Native Shrub Stem Count	3						
	Invasive Shrub Stem Count	0						

Notes

Plant Monitoring Form

Monitoring Plot Identifier: I-7	**Photograph Taken? Yes**
Date: 6/4/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC		65	%	Y		FACW
Path rush	*Juncus tenuis*	GC		7	%	N		FAC
Common reed	*Phragmites australis*	GC	12	6	%	N	YES	OBL
Grass-leaved goldenrod	*Euthamia graminifolia*	GC		4	%	N		FAC
Rough blue grass	*Poa trivialis*	GC		4	%	N		FACW
Bedstraw	*Galium mollugo*	GC		1	%	N		FACU
Tamarack	*Larix laricina*	S	3	7	%	Y		FACW
Green ash	*Fraxinus pennsylvanica*	S	1	2	%	N		FACW
Willow	*Salix sp.*	S	1	2	%	N		FACW
Cottonwood	*Populus deltoides*	S	3	1	%	N		FAC
	GC % Cover	87 %						
	GC Invasives % Cover	7%						
	GC Hydrophyte % Cover (non invasives only)	92%						
	S % Cover	12 %						
	Native Shrub Stem Count	8						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: I-8	**Photograph Taken? Yes**
Date: 6/4/15	**Herbivory Noted?**
Staff: Randy Christensen and Erica Kidd	**Other Disturbance?**
Weather Conditions: 60, overcast	

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count	Percent Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC		21	%	Y		FACW
Path rush	*Juncus tenuis*	GC		16	%	Y		FAC
Fox sedge	*Carex vulpinoidea*	GC		5	%	N		OBL
Rough blue grass	*Poa trivialis*	GC		5	%	N		FACW
Red clover	*Trifolium pratense*	GC		4	%	N		FACU
Bedstraw	*Galium mollugo*	GC		3	%	N		FACU
Common cinquefoil	*Potentilla simplex*	GC		2	%	N		FACU
Blue stemmed goldenrod	*Solidago caesia*	GC		2	%	N		FACU
Tamarack	*Larix laricina*	S	3	10	%	Y		FACW
Arrowwood	*Viburnum dentatum*	S	2	4	%	Y		FAC
Willow	*Salix sp.*	S	3	2	%	N		FACW
Cottonwood	*Populus deltoides*	S	14	2	%	N		FAC
Red Osier Dogwood	*Cornus sericea*	S	1	2	%	N		FACW
	GC % Cover	58 %						
	GC Invasives % Cover	0%						
	GC Hydrophyte % Cover (non invasives only)	81%						
	S % Cover	20 %						
	Native Shrub Stem Count	23						
	Invasive Shrub Stem Count	0						

Notes

Monitoring Plot Identifier: I-1

Date: 09-24-15

Staff: Randy Christensen

Weather Conditions: Sunny, 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	41	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	21	%	Y		FACW
Military rush	*Juncus militaris*	GC	16	%	Y		OBL
Switchgrass	*Panicum virgatum*	GC	12	%	N		FAC
Coltsfoot	*Tussilago farfara*	GC	8	%	N	YES	FACU
Wool grass	*Scirpus cyperinus*	GC	7	%	N		OBL
Northern bedstraw	*Galium boreale*	GC	6	%	N		FAC
Grass leaf goldenrod	*Euthamia graminifolia*	GC	5	%	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	5	%	N		FACW
Path rush	*Juncus tenuis*	GC	4	%	N		FAC
Willow seedlings	*Salix sp.*	GC	3	%	N		NI
New England aster	*Symphyotrichum novae-angliae*	GC	3	%	N		FACW
Common cattail	*Typha latifolia*	GC	3	%	N		OBL
Red Clover	*Trifolium pratense*	GC	2	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	2	%	N		FACW
Boneset	*Eupatorium perfoliatum*	GC	2	%	N		FACW
Cottonwood seedlings	*Populus deltoides*	S	81	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW
Bebb's Willow	*Salix Bebbiana*	S	2	Stems			FACW
Speckled Alder	*Alnus incana*	S	2	Stems			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC

GC % Cover	140	%
GC Invasives % Cover	6%	
GC Hydrophyte % Cover (non invasives only)	91%	
Native Shrub Stem Count	88	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-2

Photograph Taken? Y

Date: 09-24-15

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions: Partly Cloudy mid 60's

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Military rush	*Juncus militaris*	GC	49	%	Y		OBL
Soft rush	*Juncus effusus*	GC	12	%	N		OBL
Common cattail	*Typha latifolia*	GC	11	%	N		OBL
Commom reed	*Phragmites australis*	GC	5	%	N	YES	FACW
Redtop grass	*Agrostis gigantea*	GC	3	%	N		FACW
Purple loosestrife	*Lythrum salicaria*	GC	3	%	N	YES	OBL
Grass leaf goldenrod	*Euthamia graminifolia*	GC	3	%	N		FAC
Fox sedge	*Carex vulpinoidea*	GC	3	%	N		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	2	%	N		OBL
Deer tongue grass	*Dichanthelium clandestinum*	GC	2	%	N		FACW
Cottonwood	*Populus deltoides*	S	68	Stems			FAC
Bebb Willow	*Salix bebbiana*	S	25	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	2	Stems			FACW

GC % Cover	93	%
GC Invasives % Cover	9%	
GC Hydrophyte % Cover (non invasives only)	91%	
Native Shrub Stem Count	95	
Invasive Shrub Stem Count	0	

Notes:
Purple loosestrife 13 stems
Common reed 18 stems

Monitoring Plot Identifier: I-3

Photograph Taken? Y

Date: 09-24-15

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	65	%	Y		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	10	%	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	10	%	N		FACW
Rough bluegrass	*Poa trivialis*	GC	8	%	N		FACW
Rough stem goldenrod	*Solidago rugosa*	GC	6	%	N		FAC
Deer tongue grass	*Dichanthelium clandestinum*	GC	5	%	N		FACW
Northern Bedstraw	*Galium boreale*	GC	5	%	N		FAC
Common reed	*Phragmites australis*	GC	4	%	N	YES	FACW
Red clover	*Trifolium pratense*	GC	3	%	N		FACU
English plantain	*Plantago lanceolata*	GC	2	%	N		FACU
Water dock	*Rumex orbiculatus*	GC	2	%	N		FACW
Cottonwood	*Populus deltoides*	S	31	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	9	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW

GC % Cover	120	%
GC Invasives % Cover	3%	
GC Hydrophyte % Cover (non invasives only)	93%	
Native Shrub Stem Count	44	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-4

Photograph Taken? Y

Date: 09-24-15

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	28	%	Y		FACW
Military rush	*Juncus militaris*	GC	18	%	Y		OBL
Rough bluegrass	*Poa trivialis*	GC	12	%	Y		FACW
Small white aster	*Symphyotrichum racemosum*	GC	8	%	N		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	8	%	N		FAC
Fox sedge	*Carex vulpinoidea*	GC	8	%	N		OBL
Dark green bulrush	*Scirpus atrovirens*	GC	5	%	N		OBL
Red Clover	*Trifolium pratense*	GC	2	%	N		FACU
Coltsfoot	*Tussilago farfara*	GC	2	%	N	YES	FACU
Rough leaf goldenrod	*Solidago rugosa*	GC	2	%	N		OBL
Purple loosestrife	*Lythrum salicaria*	GC	2	%	N	YES	OBL
Cottonwood	*Populus deltoides*	S	17	Stems			FAC
Bebb's Willow	*Salix Bebbiana*	S	8	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	3	Stems			FACW

GC % Cover	95	%
GC Invasives % Cover	4%	
GC Hydrophyte % Cover (non invasives only)	94%	
Native Shrub Stem Count	28	
Invasive Shrub Stem Count	0	

Notes:
Purple loosestrife 2 stems

Monitoring Plot Identifier: I-5

Date: 09-24-15

Staff: Randy Christensen

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	35	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	12	%	Y		FACW
Military rush	*Juncus militaris*	GC	10	%	N		OBL
Grass leaf goldenrod	*Euthamia graminifolia*	GC	10	%	N		FAC
Strawberry	*Fragaria vesca*	GC	8	%	N		UPL
Coltsfoot	*Tussilago farfara*	GC	4	%	N	YES	FACU
Deer tongue grass	*Dichanthelium clandestinum*	GC	3	%	N		FACW
Common reed	*Phragmites australis*	GC	3	%	N	YES	FACW
Common plantain	*Plantago major*	GC	2	%	N		FACU
Red clover	*Trifolium pratense*	GC	2	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	2	%	N		FACW
Cottonwood	*Populus deltoides*	S	16	Stems			FAC
Bebb's Willow	*Salix bebbiana*	S	4	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	3	Stems			FAC
Green Ash	*Fraxinus pennsylvanica*	S	2	Stems			FACW
Red Osier Dogwood	*Cornus sericea*	S	1	Stem			FACW
Speckled Alder	*Alnus incana*	S	1	Stem			FACW

GC % Cover	91	%
GC Invasives % Cover	8%	
GC Hydrophyte % Cover (non invasives only)	79%	
Native Shrub Stem Count	27	
Invasive Shrub Stem Count	0	

Monitoring Plot Identifier: I-6

Photograph Taken? Y

Date: 09-24-15

Herbivory Noted? N

Staff: Randy Christensen

Other Disturbance? N

Weather Conditions:

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Rough bluegrass	*Poa trivialis*	GC	44	%	Y		FACW
Redtop grass	*Agrostis gigantea*	GC	24	%	Y		FACW
Military rush	*Juncus militaris*	GC	16	%	N		OBL
Purple stem aster	*Symphyotrichum puniceum*	GC	4	%	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	3	%	N		FACW
Commom reed	*Phragmites australis*	GC	3	%	N	YES	FACW
Fowl bluegrass	*Poa palustris*	GC	3	%	N		FACW
Red clover	*Trifolium pratense*	GC	2	%	N		FACU
Common plantain	*Plantago major*	GC	2	%	N		FACU
Cottonwood	*Populus deltoides*	S	8	Stems			FAC
Highbiush Cranberry	*Viburnum opulus*	S	2	Stems			FACW
Bebb's Willow	*Salix bebbiana*	S	2	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	1	Stem			FAC

GC % Cover	101	%
GC Invasives % Cover	3%	
GC Hydrophyte % Cover (non invasives only)	93%	
Native Shrub Stem Count	13	
Invasive Shrub Stem Count	0	

Notes:
Common reed 6 stems

Monitoring Plot Identifier: I-7

Date: 09-24-15

Staff: Randy Christensen

Weather Conditions:

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	65	%	Y		FACW
Grass leaf goldenrod	*Euthamia graminifolia*	GC	10	%	N		FAC
Rough bluegrass	*Poa trivialis*	GC	10	%	N		FACW
Rough stem goldenrod	*Solidago rugosa*	GC	6	%	N		FAC
Small white aster	*Symphyotrichum racemosum*	GC	5	%	N		FACW
Northern bedstraw	*Galium boreale*	GC	5	%	N		FAC
Red clover	*Trifolium pratense*	GC	4	%	N		FACU
Fox sedge	*Carex vulpinoidea*	GC	3	%	N		OBL
English plantain	*Plantago lanceolata*	GC	1	%	N		FACU
Cottonwood	*Populus deltoides*	S	44	Stems			FAC
Tamarack	*Larix laricina*	S	3	Stems			FACW
Bebb Willow	*Salix bebbiana*	S	2	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	1	Stem			FAC
Green Ash	*Fraxinus pennsylvanica*	S	1	Stem			FACW
Boxelder	*Acer negundo*	S	1	Stem			FAC
	GC % Cover	109	%				
	GC Invasives % Cover	0%					
	GC Hydrophyte % Cover (non invasives only)	95%					
	Native Shrub Stem Count	52					
	Invasive Shrub Stem Count	0					

Monitoring Plot Identifier: I-8

Date: 09-24-15

Staff: Randy Christensen

Weather Conditions: Partly Cloudy mid 60's

Photograph Taken? Y

Herbivory Noted? N

Other Disturbance? N

Vegetation List

Common Name	Species Name	Layer (C,L,S,GC)	Stem Count or % Cover		Dominant	Invasive?	Hydric Indicator
Redtop grass	*Agrostis gigantea*	GC	37	%	Y		FACW
Rough bluegrass	*Poa trivialis*	GC	18	%	Y		FACW
Deer tongue grass	*Dichanthelium clandestinum*	GC	6	%	N		FACW
Northern bedstraw	*Galium boreale*	GC	5	%	N		FAC
Grass leaf goldenrod	*Euthamia graminifolia*	GC	5	%	N		FAC
Red Clover	*Trifolium pratense*	GC	4	%	N		FACU
Small white aster	*Symphyotrichum racemosum*	GC	3	%	N		FACW
Rough leaf goldenrod	*Solidago rugosa*	GC	3	%	N		FAC
Coltsfoot	*Tussilago farfara*	GC	3	%	N	YES	FACU
Cottonwood	*Populus deltoides*	S	26	Stems			FAC
Bebb Willow	*Salix bebbiana*	S	5	Stems			FACW
Tamarack	*Larix laricina*	S	3	Stems			FACW
Arrowwood	*Viburnum dentatum*	S	2	Stems			FAC
Red Osier Dogwood	*Cornus sericia*	S	1	Stem			FACW

GC % Cover	84	%
GC Invasives % Cover	4%	
GC Hydrophyte % Cover (non invasives only)	89%	
Native Shrub Stem Count	37	
Invasive Shrub Stem Count	0	

Appendix B Replication Areas B,E &I Monitoring Plot Photographs

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B – GENERAL SITE PHOTOS



Replication Area B General Site Photo – Spring 2012



Replication Area B General Site Photo - Spring 2012



Replication Area B General Site Photo – Spring 2013



Replication Area B General Site Photo – Spring 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B – GENERAL SITE PHOTOS



Replication Area B General Site Photo – Spring 2014



Replication Area B General Site Photo – Spring 2014



Replication Area B General Site Photo – Spring 2015



Replication Area B General Site Photo – Spring 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B – GENERAL SITE PHOTOS



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Replication Area B General Site Photo – Spring 2012



Replication Area B General Site Photo – Spring 2013



Replication Area B General Site Photo - Spring 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B – GENERAL SITE PHOTOS



Replication Area B General Site Photo – Spring 2014



Replication Area B General Site Photo – Spring 2014



Replication Area B General Site Photo – Spring 2015



Replication Area B General Site Photo – Spring 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B – GENERAL SITE PHOTOS



Replication Area B General Site Photo – Fall 2012



Replication Area B General Site Photo - Fall 2012



Replication Area B General Site Photo – Fall 2013



Replication Area B General Site Photo – Fall 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B – GENERAL SITE PHOTOS



Replication Area B General Site Photo – Fall 2014



Replication Area B General Site Photo – Fall 2014

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B – GENERAL SITE PHOTOS



Replication Area B General Site Photo – Fall 2012



Replication Area B General Site Photo – Fall 2013



Replication Area B General Site Photo – Fall 2013



Replication Area B General Site Photo – Fall 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B – GENERAL SITE PHOTOS



Replication Area B General Site Photo – Fall 2014



Replication Area B General Site Photo – Fall 2014



Replication Area B: Plot B-1 Close July 2012



Replication Area B: Plot B-1 Close October 2012



Replication Area B: Plot B-1 Close June 2013



Replication Area B: Plot B-1 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B



Replication Area B: Plot B-1 Close July 2014



Replication Area B: Plot B-1 Close September 2014



Replication Area B: Plot B-1 Close June 2015

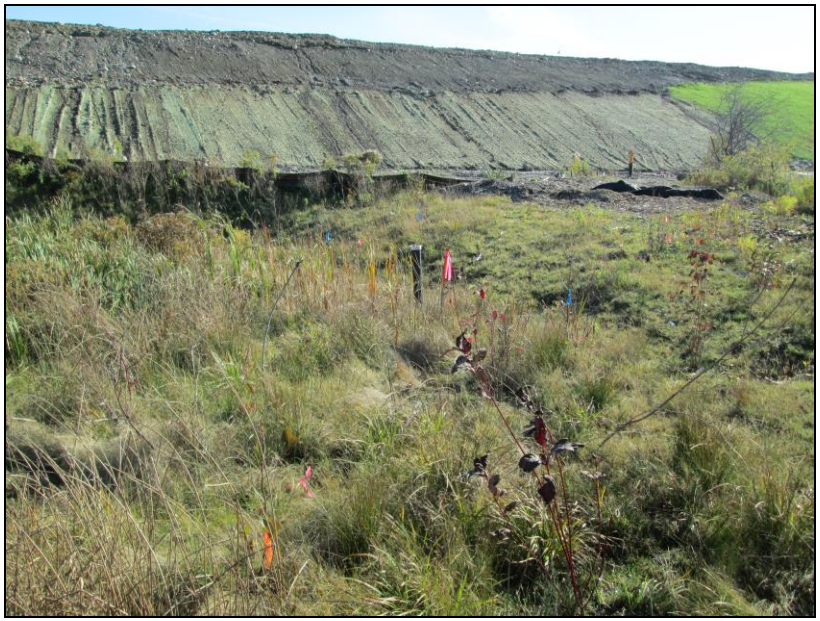


Replication Area B: Plot B-1 Close September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B



Replication Area B: Plot B-1 Far July 2012



Replication Area B: Plot B-1 Far October 2012



Replication Area B: Plot B-1 Far September 2013



Replication Area B: Plot B-1 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B



Replication Area B: Plot B-1 Far July 2014



Replication Area B: Plot B-1 Far September 2014



Replication Area B: Plot B-1 Far June 2015



Replication Area B: Plot B-1 Far September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-2 Close July 2012



Replication Area B: Plot B-2 Close October 2012



Replication Area B: Plot B-2 Close June 2013

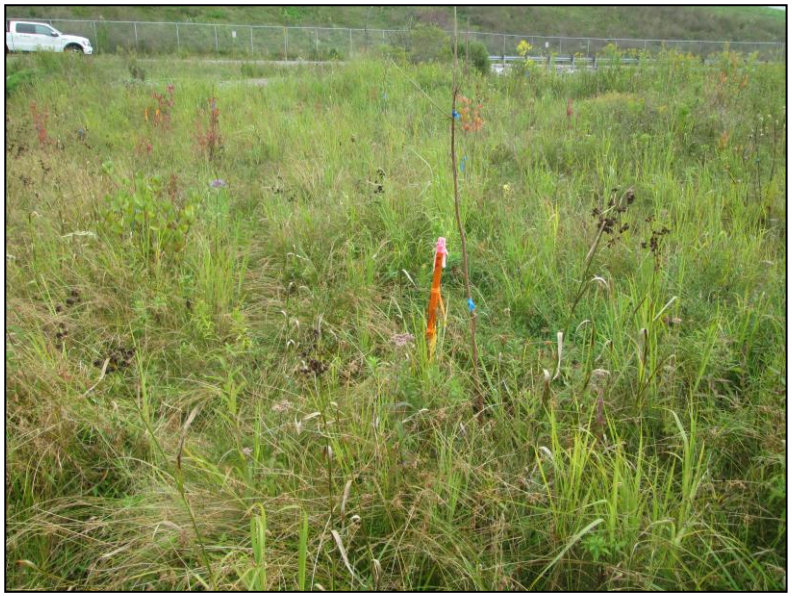


Replication Area B: Plot B-2 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-2 Close July 2014



Replication Area B: Plot B-2 Close September 2014

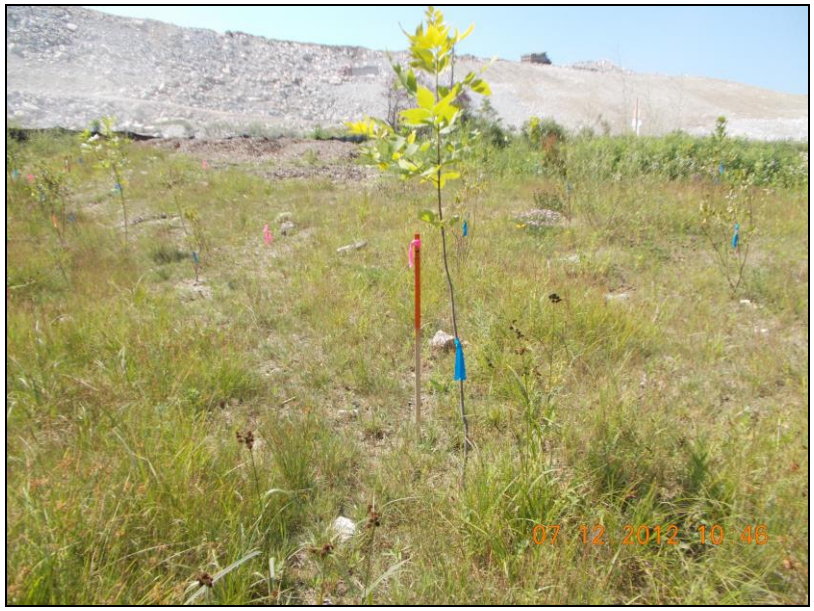


Replication Area B: Plot B-2 Close June 2015



Replication Area B: Plot B-2 Close September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



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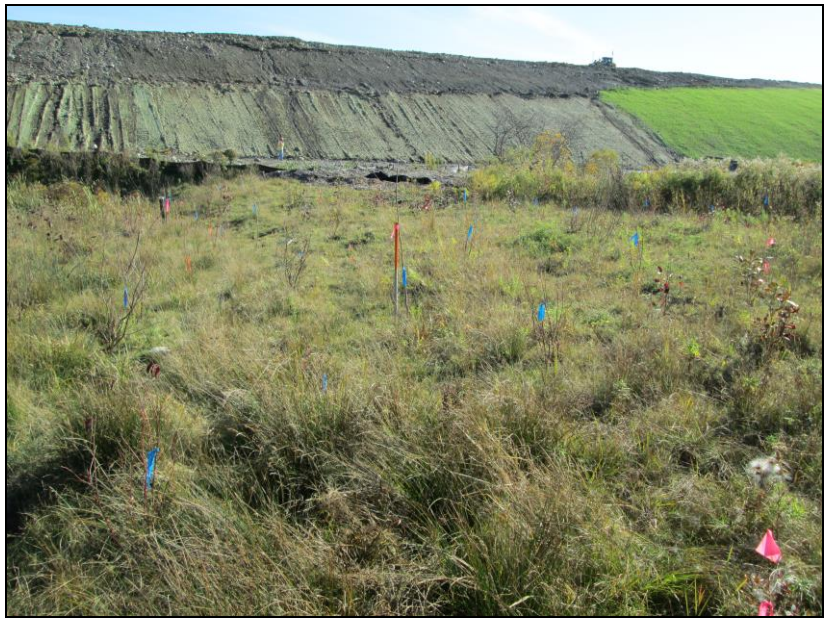


Replication Area B: Plot B-2 Far October 2012



Replication Area B: Plot B-2 Far June 2013



Replication Area B: Plot B-2 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-2 Far July 2014



Replication Area B: Plot B-2 Far September 2014



Replication Area B: Plot B-2 Far June 2015



Replication Area B: Plot B-2 Far September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B



Replication Area B: Plot B-3 Close July 2012



Replication Area B: Plot B-3 Close October 2012



Replication Area B: Plot B-3 Close June 2013



Replication Area B: Plot B-3 Close September 2013



Replication Area B: Plot B-3 Close July 2014



Replication Area B: Plot B-3 Close September 2014



Replication Area B: Plot B-3 Close June 2015



Replication Area B: Plot B-3 Close September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B



Replication Area B: Plot B-3 Far July 2012



Replication Area B: Plot B-3 Far October 2012



Replication Area B: Plot B-3 Far June 2013



Replication Area B: Plot B-3 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – REPLICATION AREA B



Replication Area B: Plot B-3 Far July 2014



Replication Area B: Plot B-3 Far September 2014



Replication Area B: Plot B-3 Far June 2015



Replication Area B: Plot B-3 Far September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



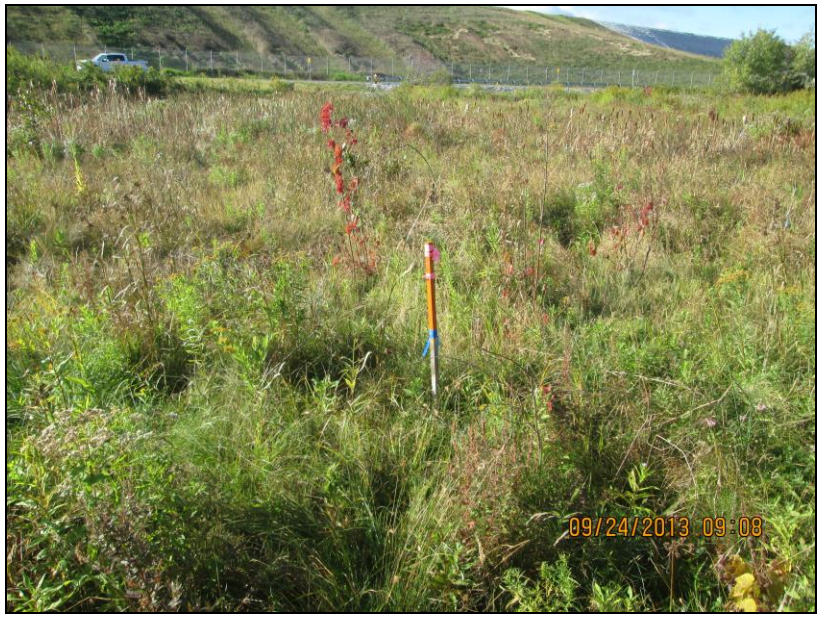
Replication Area B: Plot B-4 Close July 2012



Replication Area B: Plot B-4 Close October 2012



Replication Area B: Plot B-4 Close June 2013



Replication Area B: Plot B-4 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-4 Close July 2014



Replication Area B: Plot B-4 Close September 2014



Replication Area B: Plot B-4 Close June 2015



Replication Area B: Plot B-4 Close September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-4 Far July 2012



Replication Area B: Plot B-4 Far October 2012



Replication Area B: Plot B-4 Far June 2013



Replication Area B: Plot B-4 Far September 2013



Replication Area B: Plot B-4 Far July 2014



Replication Area B: Plot B-4 Far September 2014



Replication Area B: Plot B-4 Far June 2015



Replication Area B: Plot B-4 Far September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-5 Close July 2012



Replication Area B: Plot B-5 Close October 2012



Replication Area B: Plot B-5 Close June 2013



Replication Area B: Plot B-5 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-5 Close July 2014



Replication Area B: Plot B-5 Close September 2014



Replication Area B: Plot B-5 Close June 2015



Replication Area B: Plot B-5 Close September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-5 Far July 2012



Replication Area B: Plot B-5 Far October 2012



Replication Area B: Plot B-5 Far June 2013



Replication Area B: Plot B-5 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-5 Far July 2014



Replication Area B: Plot B-5 Far September 2014



Replication Area B: Plot B-5 Far June 2015



Replication Area B: Plot B-5 Far September 2015



Replication Area B: Plot B-6 Close July 2012



Replication Area B: Plot B-6 Close October 2012



Replication Area B: Plot B-6 Close June 2013



Replication Area B: Plot B-6 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-6 Close July 2014



Replication Area B: Plot B-6 Close September 2014



Replication Area B: Plot B-6 Close June 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-6 Far July 2012



Replication Area B: Plot B-6 Far October 2012



Replication Area B: Plot B-6 Far June 2013



Replication Area B: Plot B-6 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA B



Replication Area B: Plot B-6 Far July 2014



Replication Area B: Plot B-6 Far September 2014



Replication Area B: Plot B-6 Far June 2015



Replication Area E General Site Photo – Spring 2012



Replication Area E General Site Photo – Spring 2012



Replication Area E General Site Photo – Spring 2013



Replication Area E General Site Photo – Spring 2013

PITTSFIELD MUNICIPLE AIRPORT – 2012 - 2015 VEGETATION MONITORING –WETLAND REPLICATION AREA E



Replication Area E General Site Photo – Spring 2012



Replication Area E General Site Photo – Spring 2013



Replication Area E General Site Photo – Spring 2014



Replication Area E General Site Photo – Spring 2014



Replication Area E General Site Photo – Spring 2014



Replication Area E General Site Photo – Spring 2015



Replication Area E General Site Photo – Spring 2015



Replication Area E General Site Photo – Fall 2012



Replication Area E General Site Photo – Fall 2012



Replication Area E General Site Photo – Fall 2013



Replication Area E General Site Photo – Fall 2013



Replication Area E General Site Photo – Fall 2012



Replication Area E General Site Photo – Fall 2013



Replication Area E General Site Photo – Fall 2014



Replication Area E General Site Photo – Fall 2014



Replication Area E General Site Photo – Fall 2015



Replication Area E General Site Photo – Fall 2015



Replication Area E General Site Photo – Fall 2015



Replication Area E General Site Photo – Fall 2015



Replication Area E: Plot E-1 Close July 2012



Replication Area E: Plot E-1 Close October 2012



Replication Area E: Plot E-1 Close June 2013



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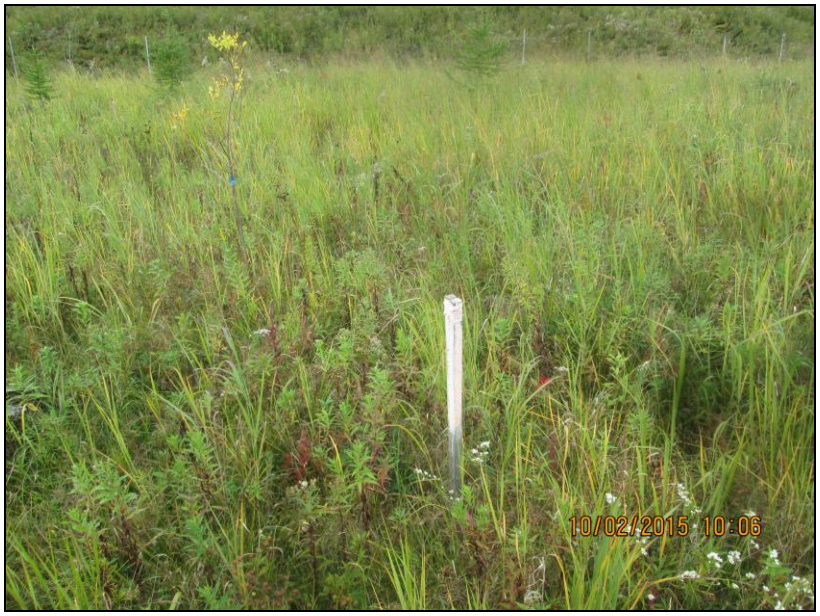
Replication Area E: Plot E-1 Close September 2014



Replication Area E: Plot E-1 Close June 2015



Replication Area E: Plot E-1 Close October 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-1 Far July 2012



Replication Area E: Plot E-1 Far October 2012



Replication Area E: Plot E-1 Far June 2013



Replication Area E: Plot E-1 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-1 Far July 2014



Replication Area E: Plot E-1 Far September 2014



Replication Area E: Plot E-1 Far June 2015



Replication Area E: Plot E-1 Far October 2015



Replication Area E: Plot E-2 Close July 2012



Replication Area E: Plot E-2 Close October 2012



Replication Area E: Plot E-2 Close June 2013



Replication Area E: Plot E-2 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-2 Close July 2014



Replication Area E: Plot E-2 Close September 2014



Replication Area E: Plot E-2 Close June 2015



Replication Area E: Plot E-2 Close October 2015



Replication Area E: Plot E-2 Far July 2012



Replication Area E: Plot E-2 Far October 2012



Replication Area E: Plot E-2 Far June 2013



Replication Area E: Plot E-2 Far September 2013



Replication Area E: Plot E-2 Far July 2014



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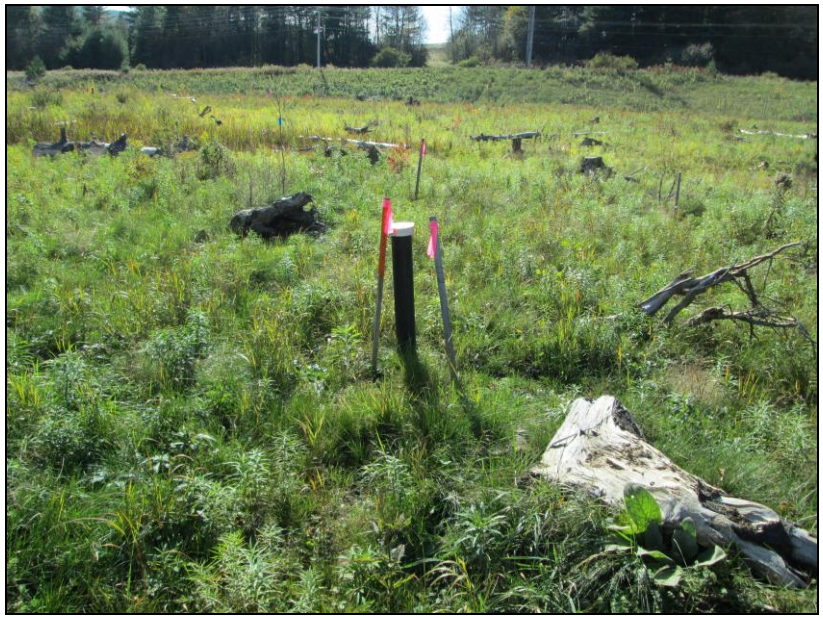
Replication Area E: Plot E-2 Far June 2015



Replication Area E: Plot E-2 Far October 2015



Replication Area E: Plot E-3 Close July 2012



Replication Area E: Plot E-3 Close October 2012



Replication Area E: Plot E-3 Close June 2013



Replication Area E: Plot E-3 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-3 Close July 2014



Replication Area E: Plot E-3 Close September 2014



Replication Area E: Plot E-3 Close June 2015



Replication Area E: Plot E-3 Close October 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-3 Far July 2012



Replication Area E: Plot E-3 Far October 2012



Replication Area E: Plot E-3 Far June 2013



Replication Area E: Plot E-3 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-3 Far July 2014



Replication Area E: Plot E-3 Far September 2014



Replication Area E: Plot E-3 Far June 2015



Replication Area E: Plot E-3 Far October 2015



Replication Area E: Plot E-4 Close July 2012



Replication Area E: Plot E-4 Close October 2012



Replication Area E: Plot E-4 Close June 2013



Replication Area E: Plot E-4 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-4 Close July 2014



Replication Area E: Plot E-4 Close September 2014



Replication Area E: Plot E-4 Close June 2015



Replication Area E: Plot E-4 October 2015



Replication Area E: Plot E-4 Far July 2012



Replication Area E: Plot E-4 Far October 2012



Replication Area E: Plot E-4 Far June 2013



Replication Area E: Plot E-4 Far September 2013



Replication Area E: Plot E-4 Far July 2014



Replication Area E: Plot E-4 Far September 2014



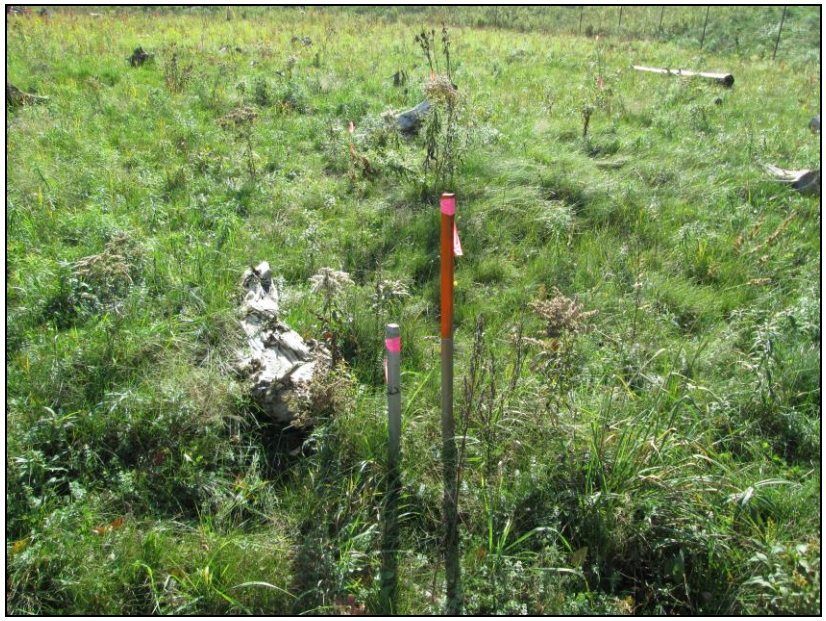
Replication Area E: Plot E-4 Far June 2015



Replication Area E: Plot E-4 Far October 2015



Replication Area E: Plot E-5 Close July 2012



Replication Area E: Plot E-5 Close October 2012



Replication Area E: Plot E-5 Close June 2013



Replication Area E: Plot E-5 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-5 Close July 2014



Replication Area E: Plot E-5 Close September 2014



Replication Area E: Plot E-5 Close June 2015



Replication Area E: Plot E-5 Close October 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-5 Far July 2012



Replication Area E: Plot E-5 Far October 2012



Replication Area E: Plot E-5 Far June 2013



Replication Area E: Plot E-5 Far June 2013



Replication Area E: Plot E-5 Far July 2014



Replication Area E: Plot E-5 Far September 2014



Replication Area E: Plot E-5 Far June 2015



Replication Area E: Plot E-5 Far October 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-6 Close July 2012



Replication Area E: Plot E-6 Close October 2012



Replication Area E: Plot E-6 Close June 2013



Replication Area E: Plot E-6 Close September 2013



Replication Area E: Plot E-6 Close July 2014



Replication Area E: Plot E-6 Close September 2014



Replication Area E: Plot E-6 Close June 2015



Replication Area E: Plot E-6 Close October 2015



Replication Area E: Plot E-6 Far July 2012



Replication Area E: Plot E-6 Far October 2012



Replication Area E: Plot E-6 Far June 2013



Replication Area E: Plot E-6 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-6 Far July 2014



Replication Area E: Plot E-6 Far September 2014



Replication Area E: Plot E-6 Far June 2015



Replication Area E: Plot E-6 Far October 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-7 Close July 2012



Replication Area E: Plot E-7 Close October 2012



Replication Area E: Plot E-7 Close June 2013



Replication Area E: Plot E-7 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



Replication Area E: Plot E-7 Close July 2014



Replication Area E: Plot E-7 Close September 2014



Replication Area E: Plot E-7 Close June 2015



Replication Area E: Plot E-7 Close October 2015



Replication Area E: Plot E-7 Far July 2012



Replication Area E: Plot E-7 Far October 2012



Replication Area E: Plot E-7 Far June 2013



Replication Area E: Plot E-7 Far September 2013



Replication Area E: Plot E-7 Far July 2014



Replication Area E: Plot E-7 Far September 2014



Replication Area E: Plot E-7 Far June 2015



Replication Area E: Plot E-7 Far October 2015



Replication Area E: Plot E-8 Close July 2012



Replication Area E: Plot E-8 Close October 2012



Replication Area E: Plot E-8 Close June 2013



Replication Area E: Plot E-8 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA E



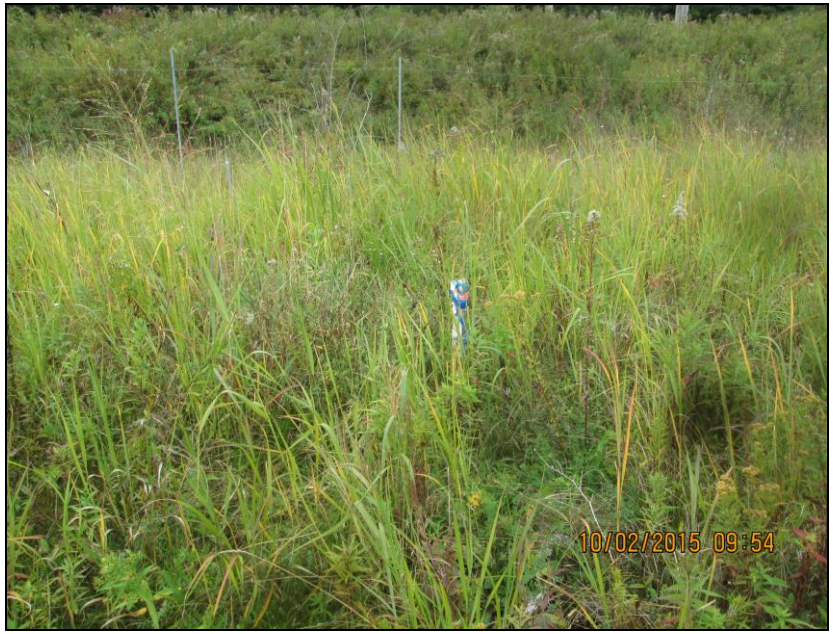
Replication Area E: Plot E-8 Close July 2014



Replication Area E: Plot E-8 Close September 2014



Replication Area E: Plot E-8 Close June 2015



Replication Area E: Plot E-8 Close September 2015



Replication Area E: Plot E-8 Far July 2012



Replication Area E: Plot E-8 Far October 2012



Replication Area E: Plot E-8 Far June 2013



Replication Area E: Plot E-8 Far September 2013



Replication Area E: Plot E-8 Far July 2014



Replication Area E: Plot E-8 Far October 2014



Replication Area E: Plot E-8 Close June 2015



Replication Area E: Plot E-8 Far October 2015



Replication Area I General Site Photo – Spring 2012



Replication Area I General Site Photo – Spring 2012



Replication Area I General Site Photo – Spring 2013



Replication Area I General Site Photo – Spring 2013



Replication Area I General Site Photo – Spring 2014



Replication Area I General Site Photo – Spring 2014



Replication Area I General Site Photo – Spring 2015



Replication Area I General Site Photo – Spring 2015



Replication Area I General Site Photo – Spring 2012



Replication Area I General Site Photo – Spring 2013



Replication Area I General Site Photo – Spring 2014



Replication Area I General Site Photo – Spring 2015



Replication Area I General Site Photo – Fall 2012



Replication Area I General Site Photo – Fall 2012



Replication Area I General Site Photo – Fall 2013



Replication Area I General Site Photo – Fall 2013



Replication Area I General Site Photo – Fall 2012



Replication Area I General Site Photo – Fall 2013



Replication Area I General Site Photo – Fall 2014



Replication Area I General Site Photo – Fall 2014



Replication Area I General Site Photo – Fall 2015



Replication Area I General Site Photo – Fall 2015



Replication Area I General Site Photo – Fall 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-1 Close July 2012



Replication Area I: Plot I-1 Close October 2012



Replication Area I: Plot I-1 Close June 2013



Replication Area I: Plot I-1 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-1 Close July 2014



Replication Area I: Plot I-1 Close September 2014



Replication Area I: Plot I-1 Close June 2015



Replication Area I: I-1 Close September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-1 Far July 2012



Replication Area I: Plot I-1 Far October 2012



Replication Area I: Plot I-1 Far June 2013



Replication Area I: Plot I-1 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-1 Far July 2014



Replication Area I: Plot I-1 Far September 2014



Replication Area I: Plot I-1 Far June 2015



Replication Area I: Plot I-1 Far September 2015



Replication Area I: Plot I-2 Close July 2012



Replication Area I: Plot I-2 Close October 2012



Replication Area I: Plot I-2 Close June 2013



Replication Area I: Plot I-2 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-2 Close July 2014



Replication Area I: Plot I-2 Close September 2014



Replication Area I: Plot I-2 Close June 2015



Replication Area I: Plot I-2 Close September 2015



Replication Area I: Plot I-2 Far July 2012



Replication Area I: Plot I-2 Far October 2012



Replication Area I: Plot I-2 Far June 2013



Replication Area I: Plot I-2 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-2 Far July 2014



Replication Area I: Plot I-2 Far September 2014



Replication Area I: Plot I-2 Far June 2015



Replication Area I: Plot I-2 Far September 2015



Replication Area I: Plot I-3 Close July 2012



Replication Area I: Plot I-3 Close October 2012



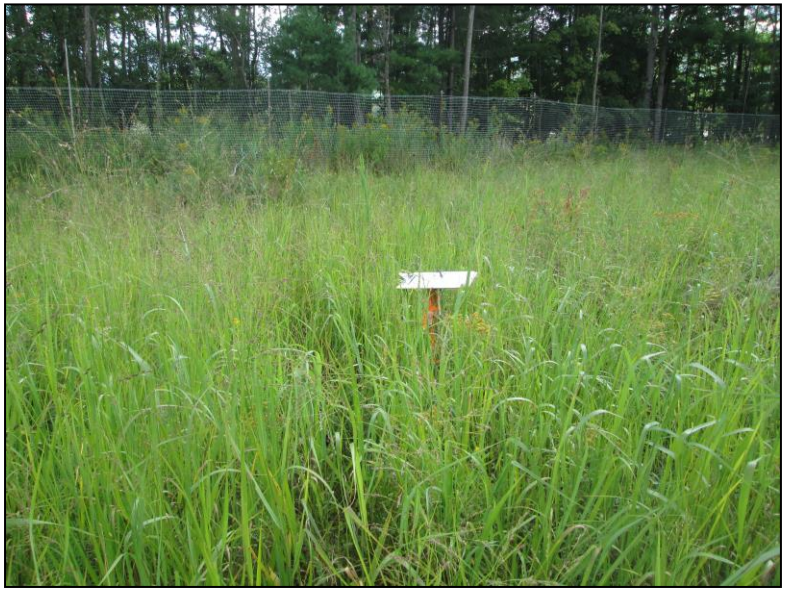
Replication Area I: Plot I-3 Close June 2013



Replication Area I: Plot I-3 Close September 2013



Replication Area I: Plot I-3 Close July 2014



Replication Area I: Plot I-3 Close September 2014



Replication Area I: Plot I-3 Close June 2015



Replication Area I: Plot I-3 Close September 2015



Replication Area I: Plot I-3 Far July 2012



Replication Area I: Plot I-3 Far October 2012



Replication Area I: Plot I-3 Far June 2013



Replication Area I: Plot I-3 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-3 Far July 2014



Replication Area I: Plot I-3 Far September 2014



Replication Area I: Plot I-3 Far June 2015



Replication Area I: Plot I-3 Far September 2015



Replication Area I: Plot I-4 Close July 2012



Replication Area I: Plot I-4 Close October 2012



Replication Area I: Plot I-4 Close June 2013



Replication Area I: Plot I-4 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-4 Close July 2014



Replication Area I: Plot I-4 Close September 2014



Replication Area I: Plot I-4 Close June 2015



Replication Area I: Plot I-4 Close September 2015



Replication Area I: Plot I-4 Far July 2012



Replication Area I: Plot I-4 Far October 2012



Replication Area I: Plot I-4 Far June 2013



Replication Area I: Plot I-4 Far September 2013



Replication Area I: Plot I-4 Far July 2014



Replication Area I: Plot I-4 Far September 2014



Replication Area I: Plot I-4 Far June 2015



Replication Area I: Plot I-4 Far September 2015



Replication Area I: Plot I-5 Close July 2012



Replication Area I: Plot I-5 Close October 2012



Replication Area I: Plot I-5 Close June 2013



Replication Area I: Plot I-5 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-5 Close July 2014



Replication Area I: Plot I-5 Close September 2014



Replication Area I: Plot I-5 Close June 2015



Replication Area I: Plot I-5 Close September 2015



Replication Area I: Plot I-5 Far July 2012



Replication Area I: Plot I-5 Far October 2012



Replication Area I: Plot I-5 Far June 2013



Replication Area I: Plot I-5 Far September 2013



Replication Area I: Plot I-5 Far July 2014



Replication Area I: Plot I-5 Far September 2014



Replication Area I: Plot I-5 Far June 2015



Replication Area I: Plot I-5 Far September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATIOM AREA I



Replication Area I: Plot I-6 Close July 2012



Replication Area I: Plot I-6 Close October 2012



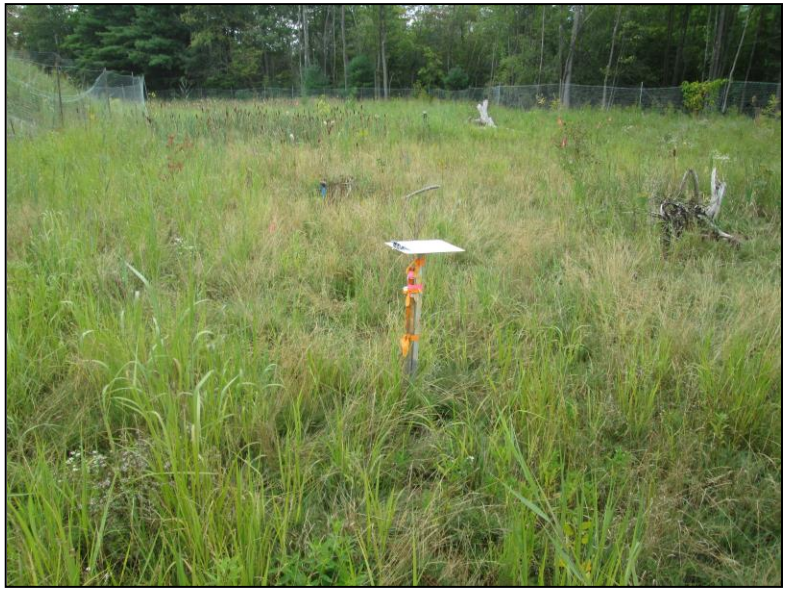
Replication Area I: Plot I-6 Close June 2013



Replication Area I: Plot I-6 Close September 2013



Replication Area I: Plot I-6 Close July 2014



Replication Area I: Plot I-6 Close September 2014



Replication Area I: Plot I-6 Close June 2015



Replication Area I: Plot I-6 Close September 2015



Replication Area I: Plot I-6 Far July 2012



Replication Area I: Plot I-6 Far October 2012



Replication Area I: Plot I-6 Far June 2013



Replication Area I: Plot I-6 Far September 2013



Replication Area I: Plot I-6 Far July 2014



Replication Area I: Plot I-6 Far September 2014



Replication Area I: Plot I-6 Far June 2015



Replication Area I: Plot I-6 Far September 2015



Replication Area I: Plot I-7 Close July 2012



Replication Area I: Plot I-7 Close October 2012

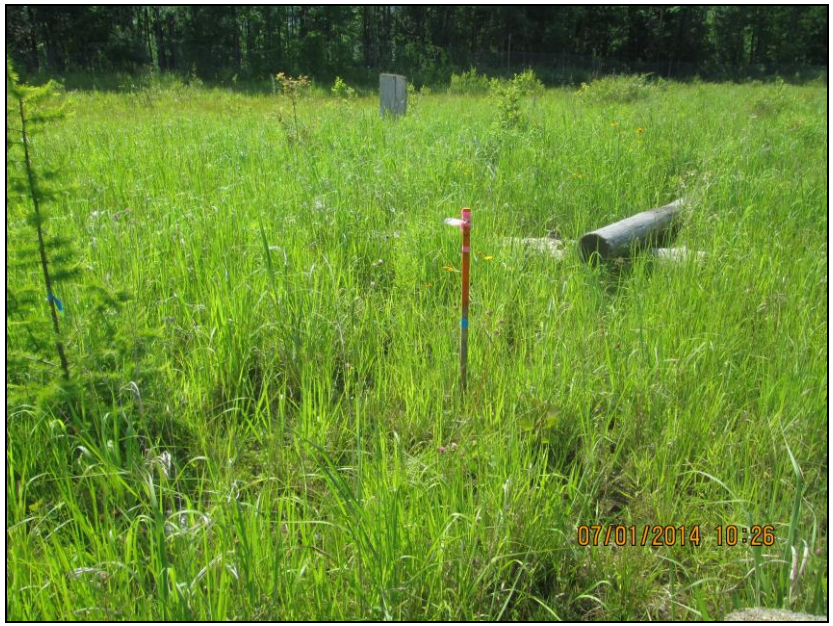


Replication Area I: Plot I-7 Close June 2013



Replication Area I: Plot I-7 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-7 Close July 2014



Replication Area I: Plot I-7 Close September 2014



Replication Area I: Plot I-7 Close June 2015



Replication Area I: Plot I-7 Close September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-7 Far July 2012



Replication Area I: Plot I-7 Far October 2012



Replication Area I: Plot I-7 Far June 2013



Replication Area I: Plot I-7 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-7 Far July 2014



Replication Area I: Plot I-7 Far September 2014



Replication Area I: Plot I-7 Far June 2015



Replication Area I: I-7 Far September 2015

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-8 Close July 2012



Replication Area I: Plot I-8 Close October 2012



Replication Area I: Plot I-8 Close June 2013

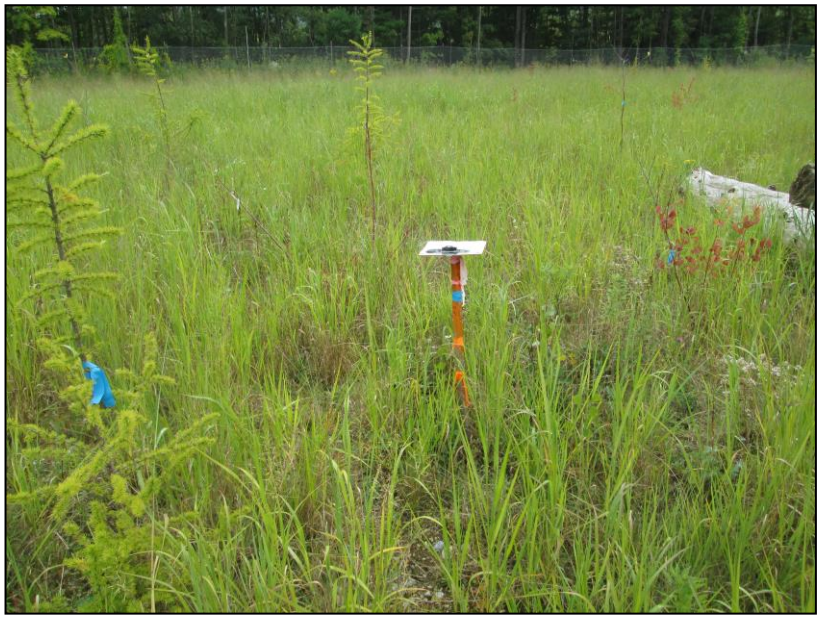


Replication Area I: Plot I-8 Close September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-8 Close July 2014



Replication Area I: Plot I-8 Close September 2014



Replication Area I: Plot I-8 Close June 2015



Replication Area I: Plot I-8 Close September 2015



Replication Area I: Plot I-8 Far July 2012



Replication Area I: Plot I-8 Far October 2012



Replication Area I: Plot I-8 Far June 2013



Replication Area I: Plot I-8 Far September 2013

PITTSFIELD MUNICIPAL AIRPORT – 2012-2015 VEGETATION MONITORING – WETLAND REPLICATION AREA I



Replication Area I: Plot I-8 Far July 2014



Replication Area I: Plot I-8 Far September 2014



Replication Area I: Plot I-8 Far June 2015



Replication Area I: Plot I-8 Far September 2015

Appendix C Replication Areas B,E &I Construction Photographs

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA B – CONSTRUCTION SEQUENCE



Replication Area B: Pre-Construction October 2010



Replication Area B: Pre-Construction October 2010



Replication Area B: Pre-Construction October 2010



Replication Area B: Pre-Construction October 2010

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA B – CONSTRUCTION SEQUENCE



Replication Area B: Site Preparation October 2010 (background)



Replication Area B: Site Preparation December 2010



Replication Area B: Construction December 2010



Replication Area B: Construction December 2010

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA B – CONSTRUCTION SEQUENCE



Replication Area B: Construction (Loam Placement) December 2010



Replication Area B: Construction December 2010



Replication Area B: Construction December 2010



Replication Area B: Construction January 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA B – CONSTRUCTION SEQUENCE



Replication Area B: Construction (Planting) June 2011



Replication Area B: Construction (Hydroseeded) June 2011



Replication Area B: Construction (Hydroseeded) June 2011



Replication Area B: Construction (Planting & Hydroseeding) June 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA B – CONSTRUCTION SEQUENCE



Replication Area B: July 2011



Replication Area B: July 2011



Replication Area B: July 2011



Replication Area B: October 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA B – CONSTRUCTION SEQUENCE



Replication Area B: Spring 2012 (middle background)



Replication Area B: Spring 2012 (middle background)

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA B – CONSTRUCTION SEQUENCE



Replication Area B: Spring 2012 (Woody Debris Placement) April 2012



Replication Area B: Spring 2012 (Woody Debris Placement) April 2012



Replication Area B: Spring 2012 (Woody Debris Placement) April 2012



Replication Area B: Spring 2012 (Woody Debris Placement) April 2012

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA B – CONSTRUCTION SEQUENCE



Replication Area B: September 2012 (right background)



Replication Area B: September 2012 (middle background)



Replication Area B: September 2012

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA E – CONSTRUCTION SEQUENCE



Replication Area E: Pre-Construction June 2011



Replication Area E: Pre-Construction June 2011



Replication Area E: Pre-Construction July 2011



Replication Area E: Pre-Construction July 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA E – CONSTRUCTION SEQUENCE



Replication Area E: Construction (Bedrock Removal) August 2011



Replication Area E: Construction (Bedrock Removal) August 2011



Replication Area E: Construction (Bedrock Removal) August 2011



Replication Area E: Construction (Bedrock Removal) August 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA E – CONSTRUCTION SEQUENCE



Replication Area E: Construction October 2011



Replication Area E: Construction October 2011



Replication Area E: Construction October 2011



Replication Area E: Construction October 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA E – CONSTRUCTION SEQUENCE



Replication Area E: Construction November 2011



Replication Area E: Construction November 2011



Replication Area E: Construction November 2011



Replication Area E: Final Grading November 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA E – CONSTRUCTION SEQUENCE



Replication Area E: Final Grading November 2011



Replication Area E: Final Grading November 2011



Replication Area E: Final Grading November 2011



Replication Area E: Final Grading November 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA E – CONSTRUCTION SEQUENCE



Replication Area E: Woody Debris Placement November 2011



Replication Area E: Woody Debris Placement November 2011



Replication Area E: Woody Debris Placement



Replication Area E: Woody Debris Placement

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA E – CONSTRUCTION SEQUENCE



Replication Area E: Transplanting November 2011



Replication Area E: Transplanting November 2011



Replication Area E: Hydroseeding November 2011



Replication Area E: Hydroseeding November 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA E – CONSTRUCTION SEQUENCE



Replication Area E: Bank Stabilization December 2011



Replication Area E: Bank Stabilization December 2011



Replication Area E: Hydrologic Connection December 2011



Replication Area E: Hydrologic Connection December 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA E – CONSTRUCTION SEQUENCE



Replication Area E: Herbivore Fencing January 2012



Replication Area E: Herbivore Fencing January 2012



Replication Area E: Herbivore Fencing



Replication Area E: Herbivore Fencing April 2012

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA E – CONSTRUCTION SEQUENCE



Replication Area E: May 2012



Replication Area E: May 2012



Replication Area E: May 2012



Replication Area E: May 2012

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA E – CONSTRUCTION SEQUENCE



Replication Area E: Summer 2012



Replication Area E: Summer 2012

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA I – CONSTRUCTION SEQUENCE



Replication Area I: Pre-Construction



Replication Area I: Pre-Construction October 2010



Replication Area I: Pre-Construction October 2010



Replication Area I: Pre-Construction October 2010

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA I – CONSTRUCTION SEQUENCE



Replication Area I: Site Preparation June 2011



Replication Area I: Site Preparation (erosion control) June 2011



Replication Area I: Site Preparation June 2011



Replication Area I: Site Preparation June 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA I – CONSTRUCTION SEQUENCE



Replication Area I: Construction June 2011



Replication Area I: Construction June 2011



Replication Area I: Construction June 2011



Replication Area I: Construction July 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA I – CONSTRUCTION SEQUENCE



Replication Area I: Construction August 2011



Replication Area I: Construction August 2011



Replication Area I: Construction August 2011



Replication Area I: Construction October 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA I – CONSTRUCTION SEQUENCE



Replication Area I: Final Grading November 2011



Replication Area I: Final Grading November 2011



Replication Area I: Final Grading November 2011



Replication Area I: Final Grading November 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA I – CONSTRUCTION SEQUENCE



Replication Area I: Woody Debris and Hydroseeding December 2011



Replication Area I: Woody Debris and Hydroseeding December 2011



Replication Area I: Woody Debris and Hydroseeding December 2011



Replication Area I: Woody Debris and Hydroseeding December 2011

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA I – CONSTRUCTION SEQUENCE



Replication Area I: Herbivore Fencing January 2012



Replication Area I: Herbivore Fencing January 2012



Replication Area I: Herbivore Fencing April 2012



Replication Area I: Herbivore Fencing and Drainage Swales April 2012

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA I – CONSTRUCTION SEQUENCE



Replication Area I: Drainage Swales May 2012



Replication Area I: Bank Stabilization May 2012



Replication Area I: Bank Stabilization May 2012



Replication Area I: Bank Stabilization May 2012

PITTSFIELD MUNICIPLE AIRPORT – WETLAND REPLICATION AREA I – CONSTRUCTION SEQUENCE



Replication Area I: May 2012



Replication Area I: May 2012



Replication Area I: May 2012



Replication Area I: Drain Swales Removed September 2015

Appendix D Ground Water Monitoring Data

Ground Water Level Data - 2015
Replication Area B - Well #1
Pittsfield Airport, Pittsfield, MA

Serial_number:
1049739
Project ID:
Pittsfield RW 8-26 RSA
Location:
Replication Area B - Well #1
LEVEL
UNIT: ft
Offset: 0.000000 ft
Altitude: 355.000000 ft
Density: 1.000000 kg/L
TEMPERATURE
UNIT: Deg C

Date	Time	ms	Water Level	Water Temp	Ground Level	Ground Water Depth
4/21/2015	12:07:12	0	4.275	6.8	4.3	-0.025
4/21/2015	16:07:12	0	4.217	6.7	4.3	-0.083
4/21/2015	20:07:12	0	4.315	6.7	4.3	0.015
4/22/2015	0:07:12	0	4.286	6.7	4.3	-0.014
4/22/2015	4:07:12	0	4.235	6.8	4.3	-0.065
4/22/2015	8:07:12	0	4.159	6.8	4.3	-0.141
4/22/2015	12:07:12	0	3.996	6.8	4.3	-0.304
4/22/2015	16:07:12	0	3.912	6.8	4.3	-0.388
4/22/2015	20:07:12	0	4.193	6.8	4.3	-0.107
4/23/2015	0:07:12	0	4.465	6.8	4.3	0.165
4/23/2015	4:07:12	0	4.191	6.8	4.3	-0.109
4/23/2015	8:07:12	0	4.407	6.8	4.3	0.107
4/23/2015	12:07:12	0	4.285	6.9	4.3	-0.015
4/23/2015	16:07:12	0	4.234	6.9	4.3	-0.066
4/23/2015	20:07:12	0	4.347	6.9	4.3	0.047
4/24/2015	0:07:12	0	4.244	6.9	4.3	-0.056
4/24/2015	4:07:12	0	4.291	6.9	4.3	-0.009
4/24/2015	8:07:12	0	4.271	6.9	4.3	-0.029
4/24/2015	12:07:12	0	4.161	6.9	4.3	-0.139
4/24/2015	16:07:12	0	4.198	6.9	4.3	-0.102
4/24/2015	20:07:12	0	4.246	6.9	4.3	-0.054
4/25/2015	0:07:12	0	4.156	6.9	4.3	-0.144
4/25/2015	4:07:12	0	4.054	6.9	4.3	-0.246
4/25/2015	8:07:12	0	4.196	6.9	4.3	-0.104
4/25/2015	12:07:12	0	4.072	6.9	4.3	-0.228
4/25/2015	16:07:12	0	3.909	6.9	4.3	-0.391
4/25/2015	20:07:12	0	4.051	6.9	4.3	-0.249
4/26/2015	0:07:12	0	4.093	6.8	4.3	-0.207
4/26/2015	4:07:12	0	3.997	6.8	4.3	-0.303
4/26/2015	8:07:12	0	4.164	6.8	4.3	-0.136
4/26/2015	12:07:12	0	4.084	6.8	4.3	-0.216
4/26/2015	16:07:12	0	4.014	6.8	4.3	-0.286
4/26/2015	20:07:12	0	4.078	6.8	4.3	-0.222
4/27/2015	0:07:12	0	4.078	6.8	4.3	-0.222
4/27/2015	4:07:12	0	4.056	6.8	4.3	-0.244
4/27/2015	8:07:12	0	4.098	6.8	4.3	-0.202
4/27/2015	12:07:12	0	4.086	6.8	4.3	-0.214
4/27/2015	16:07:12	0	4.015	6.8	4.3	-0.285
4/27/2015	20:07:12	0	4.167	6.8	4.3	-0.133
4/28/2015	0:07:12	0	4.093	6.8	4.3	-0.207
4/28/2015	4:07:12	0	4.093	6.8	4.3	-0.207
4/28/2015	8:07:12	0	4.236	6.9	4.3	-0.064
4/28/2015	12:07:12	0	4.059	6.9	4.3	-0.241
4/28/2015	16:07:12	0	3.856	6.9	4.3	-0.444
4/28/2015	20:07:12	0	4.012	6.9	4.3	-0.288
4/29/2015	0:07:12	0	3.924	6.9	4.3	-0.376
4/29/2015	4:07:12	0	3.997	6.9	4.3	-0.303
4/29/2015	8:07:12	0	4.118	6.9	4.3	-0.182
4/29/2015	12:07:12	0	3.975	6.9	4.3	-0.325
4/29/2015	16:07:12	0	3.938	6.9	4.3	-0.362
4/29/2015	20:07:12	0	4.051	7	4.3	-0.249
4/30/2015	0:07:12	0	4.165	7	4.3	-0.135
4/30/2015	4:07:12	0	3.999	7	4.3	-0.301
4/30/2015	8:07:12	0	4.163	7	4.3	-0.137
4/30/2015	12:07:12	0	4.01	7	4.3	-0.29
4/30/2015	16:07:12	0	3.971	7	4.3	-0.329
4/30/2015	20:07:12	0	4.089	7.1	4.3	-0.211
5/1/2015	0:07:12	0	4.085	7.1	4.3	-0.215
5/1/2015	4:07:12	0	4.078	7.1	4.3	-0.222
5/1/2015	8:07:12	0	4.09	7.1	4.3	-0.21
5/1/2015	12:07:12	0	3.957	7.2	4.3	-0.343
5/1/2015	16:07:12	0	3.945	7.2	4.3	-0.355
5/1/2015	20:07:12	0	4.015	7.2	4.3	-0.285
5/2/2015	0:07:12	0	4.027	7.2	4.3	-0.273
5/2/2015	4:07:12	0	4.008	7.3	4.3	-0.292
5/2/2015	8:07:12	0	4.071	7.3	4.3	-0.229
5/2/2015	12:07:12	0	3.929	7.3	4.3	-0.371
5/2/2015	16:07:12	0	3.854	7.3	4.3	-0.446
5/2/2015	20:07:12	0	4.003	7.3	4.3	-0.297
5/3/2015	0:07:12	0	4.087	7.4	4.3	-0.213
5/3/2015	4:07:12	0	4.035	7.4	4.3	-0.265
5/3/2015	8:07:12	0	4.149	7.4	4.3	-0.151

Ground Water Level Data - 2015
Replication Area B - Well #1
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area B - Well #1
Pittsfield Airport, Pittsfield, MA

5/3/2015	12:07:12	0	3.978	7.4	4.3	-0.322
5/3/2015	16:07:12	0	3.877	7.4	4.3	-0.423
5/3/2015	20:07:12	0	3.982	7.5	4.3	-0.318
5/4/2015	0:07:12	0	4.064	7.5	4.3	-0.236
5/4/2015	4:07:12	0	4.04	7.5	4.3	-0.26
5/4/2015	8:07:12	0	4.076	7.5	4.3	-0.224
5/4/2015	12:07:12	0	3.868	7.6	4.3	-0.432
5/4/2015	16:07:12	0	3.747	7.6	4.3	-0.553
5/4/2015	20:07:12	0	3.847	7.6	4.3	-0.453
5/5/2015	0:07:12	0	4.049	7.6	4.3	-0.251
5/5/2015	4:07:12	0	4.002	7.7	4.3	-0.298
5/5/2015	8:07:12	0	4.079	7.7	4.3	-0.221
5/5/2015	12:07:12	0	3.974	7.7	4.3	-0.326
5/5/2015	16:07:12	0	3.781	7.8	4.3	-0.519
5/5/2015	20:07:12	0	3.897	7.8	4.3	-0.403
5/6/2015	0:07:12	0	3.988	7.8	4.3	-0.312
5/6/2015	4:07:12	0	3.976	7.9	4.3	-0.324
5/6/2015	8:07:12	0	4.068	7.9	4.3	-0.232
5/6/2015	12:07:12	0	3.891	7.9	4.3	-0.409
5/6/2015	16:07:12	0	3.705	8	4.3	-0.595
5/6/2015	20:07:12	0	3.825	8	4.3	-0.475
5/7/2015	0:07:12	0	3.972	8	4.3	-0.328
5/7/2015	4:07:12	0	3.907	8.1	4.3	-0.393
5/7/2015	8:07:12	0	4.006	8.1	4.3	-0.294
5/7/2015	12:07:12	0	3.846	8.1	4.3	-0.454
5/7/2015	16:07:12	0	3.705	8.2	4.3	-0.595
5/7/2015	20:07:12	0	3.808	8.2	4.3	-0.492
5/8/2015	0:07:12	0	3.961	8.2	4.3	-0.339
5/8/2015	4:07:12	0	3.93	8.3	4.3	-0.37
5/8/2015	8:07:12	0	4.047	8.3	4.3	-0.253
5/8/2015	12:07:12	0	3.865	8.3	4.3	-0.435
5/8/2015	16:07:12	0	3.76	8.4	4.3	-0.54
5/8/2015	20:07:12	0	3.944	8.4	4.3	-0.356
5/9/2015	0:07:12	0	4.072	8.4	4.3	-0.228
5/9/2015	4:07:12	0	3.97	8.4	4.3	-0.33
5/9/2015	8:07:12	0	4.028	8.5	4.3	-0.272
5/9/2015	12:07:12	0	3.848	8.5	4.3	-0.452
5/9/2015	16:07:12	0	3.743	8.5	4.3	-0.557
5/9/2015	20:07:12	0	3.855	8.6	4.3	-0.445
5/10/2015	0:07:12	0	3.902	8.6	4.3	-0.398
5/10/2015	4:07:12	0	3.842	8.6	4.3	-0.458
5/10/2015	8:07:12	0	3.941	8.7	4.3	-0.359
5/10/2015	12:07:12	0	3.803	8.7	4.3	-0.497
5/10/2015	16:07:12	0	3.711	8.8	4.3	-0.589
5/10/2015	20:07:12	0	3.847	8.8	4.3	-0.453
5/11/2015	0:07:12	0	3.976	8.8	4.3	-0.324
5/11/2015	4:07:12	0	3.83	8.9	4.3	-0.47
5/11/2015	8:07:12	0	3.913	8.9	4.3	-0.387
5/11/2015	12:07:12	0	3.836	9	4.3	-0.464
5/11/2015	16:07:12	0	3.685	9	4.3	-0.615
5/11/2015	20:07:12	0	3.798	9.1	4.3	-0.502
5/12/2015	0:07:12	0	3.811	9.1	4.3	-0.489
5/12/2015	4:07:12	0	3.753	9.2	4.3	-0.547
5/12/2015	8:07:12	0	3.806	9.2	4.3	-0.494
5/12/2015	12:07:12	0	3.793	9.2	4.3	-0.507
5/12/2015	16:07:12	0	3.765	9.3	4.3	-0.535
5/12/2015	20:07:12	0	4.025	9.3	4.3	-0.275
5/13/2015	0:07:12	0	4.055	9.4	4.3	-0.245
5/13/2015	4:07:12	0	3.933	9.4	4.3	-0.367
5/13/2015	8:07:12	0	4.102	9.5	4.3	-0.198
5/13/2015	12:07:12	0	4.11	9.5	4.3	-0.19
5/13/2015	16:07:12	0	4.024	9.6	4.3	-0.276
5/13/2015	20:07:12	0	4.028	9.6	4.3	-0.272
5/14/2015	0:07:12	0	4.127	9.6	4.3	-0.173
5/14/2015	4:07:12	0	4.056	9.7	4.3	-0.244
5/14/2015	8:07:12	0	4.075	9.7	4.3	-0.225
5/14/2015	12:07:12	0	3.865	9.7	4.3	-0.435
5/14/2015	16:07:12	0	3.729	9.7	4.3	-0.571
5/14/2015	20:07:12	0	3.768	9.7	4.3	-0.532
5/15/2015	0:07:12	0	3.909	9.7	4.3	-0.391
5/15/2015	4:07:12	0	3.888	9.7	4.3	-0.412
5/15/2015	8:07:12	0	4.009	9.7	4.3	-0.291
5/15/2015	12:07:12	0	3.817	9.7	4.3	-0.483
5/15/2015	16:07:12	0	3.662	9.7	4.3	-0.638
5/15/2015	20:07:12	0	3.76	9.7	4.3	-0.54
5/16/2015	0:07:12	0	3.885	9.7	4.3	-0.415
5/16/2015	4:07:12	0	3.843	9.7	4.3	-0.457
5/16/2015	8:07:12	0	3.925	9.7	4.3	-0.375
5/16/2015	12:07:12	0	3.848	9.7	4.3	-0.452
5/16/2015	16:07:12	0	3.734	9.7	4.3	-0.566
5/16/2015	20:07:12	0	3.887	9.7	4.3	-0.413
5/17/2015	0:07:12	0	3.965	9.7	4.3	-0.335
5/17/2015	4:07:12	0	3.839	9.7	4.3	-0.461
5/17/2015	8:07:12	0	4.028	9.7	4.3	-0.272
5/17/2015	12:07:12	0	3.851	9.7	4.3	-0.449
5/17/2015	16:07:12	0	3.723	9.7	4.3	-0.577
5/17/2015	20:07:12	0	3.819	9.7	4.3	-0.481

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5/18/2015	0:07:12	0	3.886	9.7	4.3	-0.414
5/18/2015	4:07:12	0	3.872	9.8	4.3	-0.428
5/18/2015	8:07:12	0	3.997	9.8	4.3	-0.303
5/18/2015	12:07:12	0	3.843	9.8	4.3	-0.457
5/18/2015	16:07:12	0	3.675	9.8	4.3	-0.625
5/18/2015	20:07:12	0	3.779	9.9	4.3	-0.521
5/19/2015	0:07:12	0	3.732	9.9	4.3	-0.568
5/19/2015	4:07:12	0	3.699	9.9	4.3	-0.601
5/19/2015	8:07:12	0	3.78	9.9	4.3	-0.52
5/19/2015	12:07:12	0	3.787	10	4.3	-0.513
5/19/2015	16:07:12	0	3.627	10	4.3	-0.673
5/19/2015	20:07:12	0	3.736	10	4.3	-0.564
5/20/2015	0:07:12	0	4.125	10	4.3	-0.175
5/20/2015	4:07:12	0	3.823	10.1	4.3	-0.477
5/20/2015	8:07:12	0	3.932	10.1	4.3	-0.368
5/20/2015	12:07:12	0	4.008	10.1	4.3	-0.292
5/20/2015	16:07:12	0	3.845	10.1	4.3	-0.455
5/20/2015	20:07:12	0	3.968	10.1	4.3	-0.332
5/21/2015	0:07:12	0	3.965	10.2	4.3	-0.335
5/21/2015	4:07:12	0	3.847	10.2	4.3	-0.453
5/21/2015	8:07:12	0	3.981	10.2	4.3	-0.319
5/21/2015	12:07:12	0	3.78	10.2	4.3	-0.52
5/21/2015	16:07:12	0	3.674	10.2	4.3	-0.626
5/21/2015	20:07:12	0	3.772	10.2	4.3	-0.528
5/22/2015	0:07:12	0	3.8	10.2	4.3	-0.5
5/22/2015	4:07:12	0	3.867	10.2	4.3	-0.433
5/22/2015	8:07:12	0	3.946	10.2	4.3	-0.354
5/22/2015	12:07:12	0	3.864	10.2	4.3	-0.436
5/22/2015	16:07:12	0	3.942	10.2	4.3	-0.358
5/22/2015	20:07:12	0	3.947	10.2	4.3	-0.353
5/23/2015	0:07:12	0	3.985	10.2	4.3	-0.315
5/23/2015	4:07:12	0	4.013	10.2	4.3	-0.287
5/23/2015	8:07:12	0	4.102	10.2	4.3	-0.198
5/23/2015	12:07:12	0	3.878	10.2	4.3	-0.422
5/23/2015	16:07:12	0	3.649	10.2	4.3	-0.651
5/23/2015	20:07:12	0	3.658	10.2	4.3	-0.642
5/24/2015	0:07:12	0	3.766	10.2	4.3	-0.534
5/24/2015	4:07:12	0	3.776	10.2	4.3	-0.524
5/24/2015	8:07:12	0	3.885	10.1	4.3	-0.415
5/24/2015	12:07:12	0	3.68	10.1	4.3	-0.62
5/24/2015	16:07:12	0	3.584	10.1	4.3	-0.716
5/24/2015	20:07:12	0	3.651	10.1	4.3	-0.649
5/25/2015	0:07:12	0	3.802	10.1	4.3	-0.498
5/25/2015	4:07:12	0	3.768	10.1	4.3	-0.532
5/25/2015	8:07:12	0	3.855	10.1	4.3	-0.445
5/25/2015	12:07:12	0	3.715	10.1	4.3	-0.585
5/25/2015	16:07:12	0	3.502	10.1	4.3	-0.798
5/25/2015	20:07:12	0	3.626	10.1	4.3	-0.674
5/26/2015	0:07:12	0	3.761	10.1	4.3	-0.539
5/26/2015	4:07:12	0	3.723	10.1	4.3	-0.577
5/26/2015	8:07:12	0	3.836	10.1	4.3	-0.464
5/26/2015	12:07:12	0	3.731	10.1	4.3	-0.569
5/26/2015	16:07:12	0	3.579	10.1	4.3	-0.721
5/26/2015	20:07:12	0	3.63	10.2	4.3	-0.67
5/27/2015	0:07:12	0	3.752	10.2	4.3	-0.548
5/27/2015	4:07:12	0	3.672	10.2	4.3	-0.628
5/27/2015	8:07:12	0	3.778	10.2	4.3	-0.522
5/27/2015	12:07:12	0	3.675	10.3	4.3	-0.625
5/27/2015	16:07:12	0	3.526	10.3	4.3	-0.774
5/27/2015	20:07:12	0	3.976	10.3	4.3	-0.324
5/28/2015	0:07:12	0	3.958	10.3	4.3	-0.342
5/28/2015	4:07:12	0	3.974	10.4	4.3	-0.326
5/28/2015	8:07:12	0	4.049	10.4	4.3	-0.251
5/28/2015	12:07:12	0	3.897	10.4	4.3	-0.403
5/28/2015	16:07:12	0	3.966	10.5	4.3	-0.334
5/28/2015	20:07:12	0	4.201	10.5	4.3	-0.099
5/29/2015	0:07:12	0	4.115	10.5	4.3	-0.185
5/29/2015	4:07:12	0	4.038	10.6	4.3	-0.262
5/29/2015	8:07:12	0	4.124	10.6	4.3	-0.176
5/29/2015	12:07:12	0	3.877	10.6	4.3	-0.423
5/29/2015	16:07:12	0	3.827	10.7	4.3	-0.473
5/29/2015	20:07:12	0	3.833	10.7	4.3	-0.467
5/30/2015	0:07:12	0	3.943	10.7	4.3	-0.357
5/30/2015	4:07:12	0	3.865	10.7	4.3	-0.435
5/30/2015	8:07:12	0	3.971	10.8	4.3	-0.329
5/30/2015	12:07:12	0	3.816	10.8	4.3	-0.484
5/30/2015	16:07:12	0	3.696	10.8	4.3	-0.604
5/30/2015	20:07:12	0	3.761	10.9	4.3	-0.539
5/31/2015	0:07:12	0	3.884	10.9	4.3	-0.416
5/31/2015	4:07:12	0	3.884	10.9	4.3	-0.416
5/31/2015	8:07:12	0	4.013	10.9	4.3	-0.287
5/31/2015	12:07:12	0	4.103	10.9	4.3	-0.197
5/31/2015	16:07:12	0	4.108	11	4.3	-0.192
5/31/2015	20:07:12	0	4.094	11	4.3	-0.206
6/1/2015	0:07:12	0	4.025	11	4.3	-0.275
6/1/2015	4:07:12	0	3.953	11.1	4.3	-0.347
6/1/2015	8:07:12	0	4.12	11.1	4.3	-0.18

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6/1/2015	12:07:12	0	4.152	11.1	4.3	-0.148
6/1/2015	16:07:12	0	4.082	11.1	4.3	-0.218
6/1/2015	20:07:12	0	4.224	11.1	4.3	-0.076
6/2/2015	0:07:12	0	4.258	10.9	4.3	-0.042
6/2/2015	4:07:12	0	4.13	10.9	4.3	-0.17
6/2/2015	8:07:12	0	4.238	10.9	4.3	-0.062
6/2/2015	12:07:12	0	4.261	11.1	4.3	-0.039
6/2/2015	16:07:12	0	4.115	11.1	4.3	-0.185
6/2/2015	20:07:12	0	4.207	11.1	4.3	-0.093
6/3/2015	0:07:12	0	4.222	11.1	4.3	-0.078
6/3/2015	4:07:12	0	4.184	11.1	4.3	-0.116
6/3/2015	8:07:12	0	4.237	11	4.3	-0.063
6/3/2015	12:07:12	0	4.069	11	4.3	-0.231
6/3/2015	16:07:12	0	3.99	11	4.3	-0.31
6/3/2015	20:07:12	0	4.063	11	4.3	-0.237
6/4/2015	0:07:12	0	4.177	11	4.3	-0.123
6/4/2015	4:07:12	0	4.146	11	4.3	-0.154
6/4/2015	8:07:12	0	4.187	10.9	4.3	-0.113
6/4/2015	12:07:12	0	4.062	10.9	4.3	-0.238
6/4/2015	16:07:12	0	3.916	10.9	4.3	-0.384
6/4/2015	20:07:12	0	3.947	10.9	4.3	-0.353
6/5/2015	0:07:12	0	4.026	10.9	4.3	-0.274
6/5/2015	4:07:12	0	3.972	10.9	4.3	-0.328
6/5/2015	8:07:12	0	4.025	10.9	4.3	-0.275
6/5/2015	12:07:12	0	3.886	10.9	4.3	-0.414
6/5/2015	16:07:12	0	3.783	10.9	4.3	-0.517
6/5/2015	20:07:12	0	3.877	10.9	4.3	-0.423
6/6/2015	0:07:12	0	3.966	10.9	4.3	-0.334
6/6/2015	4:07:12	0	3.944	10.9	4.3	-0.356
6/6/2015	8:07:12	0	4.192	10.9	4.3	-0.108
6/6/2015	12:07:12	0	4.238	10.9	4.3	-0.062
6/6/2015	16:07:12	0	4.034	10.9	4.3	-0.266
6/6/2015	20:07:12	0	4.073	10.9	4.3	-0.227
6/7/2015	0:07:12	0	4.104	10.9	4.3	-0.196
6/7/2015	4:07:12	0	4.111	11	4.3	-0.189
6/7/2015	8:07:12	0	4.19	11	4.3	-0.11
6/7/2015	12:07:12	0	3.912	11	4.3	-0.388
6/7/2015	16:07:12	0	3.776	11	4.3	-0.524
6/7/2015	20:07:12	0	3.813	11	4.3	-0.487
6/8/2015	0:07:12	0	3.954	11	4.3	-0.346
6/8/2015	4:07:12	0	3.795	11	4.3	-0.505
6/8/2015	8:07:12	0	3.891	11	4.3	-0.409
6/8/2015	12:07:12	0	3.856	11	4.3	-0.444
6/8/2015	16:07:12	0	3.807	11.1	4.3	-0.493
6/8/2015	20:07:12	0	3.928	11.1	4.3	-0.372
6/9/2015	0:07:12	0	4.022	11.1	4.3	-0.278
6/9/2015	4:07:12	0	4.036	11.1	4.3	-0.264
6/9/2015	8:07:12	0	4.103	11.1	4.3	-0.197
6/9/2015	12:07:12	0	4.087	11.1	4.3	-0.213
6/9/2015	16:07:12	0	4.142	11.1	4.3	-0.158
6/9/2015	20:07:12	0	4.301	11.1	4.3	0.001
6/10/2015	0:07:12	0	4.363	11.1	4.3	0.063
6/10/2015	4:07:12	0	4.265	11.1	4.3	-0.035
6/10/2015	8:07:12	0	4.348	11.1	4.3	0.048
6/10/2015	12:07:12	0	4.151	11.1	4.3	-0.149
6/10/2015	16:07:12	0	4.053	11.2	4.3	-0.247
6/10/2015	20:07:12	0	4.023	11.2	4.3	-0.277
6/11/2015	0:07:12	0	4.132	11.2	4.3	-0.168
6/11/2015	4:07:12	0	4.095	11.2	4.3	-0.205
6/11/2015	8:07:12	0	4.202	11.2	4.3	-0.098
6/11/2015	12:07:12	0	4.139	11.2	4.3	-0.161
6/11/2015	16:07:12	0	4.065	11.3	4.3	-0.235
6/11/2015	20:07:12	0	4.114	11.3	4.3	-0.186
6/12/2015	0:07:12	0	4.145	11.3	4.3	-0.155
6/12/2015	4:07:12	0	4.063	11.3	4.3	-0.237
6/12/2015	8:07:12	0	4.192	11.4	4.3	-0.108
6/12/2015	12:07:12	0	3.899	11.4	4.3	-0.401
6/12/2015	16:07:12	0	3.778	11.4	4.3	-0.522
6/12/2015	20:07:12	0	3.807	11.4	4.3	-0.493
6/13/2015	0:07:12	0	4.122	11.5	4.3	-0.178
6/13/2015	4:07:12	0	4.057	11.5	4.3	-0.243
6/13/2015	8:07:12	0	4.45	11.5	4.3	0.15
6/13/2015	12:07:12	0	4.277	11.5	4.3	-0.023
6/13/2015	16:07:12	0	4.118	11.6	4.3	-0.182
6/13/2015	20:07:12	0	4.049	11.6	4.3	-0.251
6/14/2015	0:07:12	0	4.166	11.6	4.3	-0.134
6/14/2015	4:07:12	0	4.128	11.6	4.3	-0.172
6/14/2015	8:07:12	0	4.206	11.7	4.3	-0.094
6/14/2015	12:07:12	0	4.039	11.7	4.3	-0.261
6/14/2015	16:07:12	0	3.905	11.7	4.3	-0.395
6/14/2015	20:07:12	0	3.961	11.7	4.3	-0.339
6/15/2015	0:07:12	0	4.051	11.8	4.3	-0.249
6/15/2015	4:07:12	0	3.923	11.8	4.3	-0.377
6/15/2015	8:07:12	0	4.254	11.8	4.3	-0.046
6/15/2015	12:07:12	0	4.38	11.8	4.3	0.08
6/15/2015	16:07:12	0	4.277	11.8	4.3	-0.023
6/15/2015	20:07:12	0	4.317	11.8	4.3	0.017

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6/16/2015	0:07:12	0	4.298	11.9	4.3	-0.002
6/16/2015	4:07:12	0	4.187	11.9	4.3	-0.113
6/16/2015	8:07:12	0	4.221	11.9	4.3	-0.079
6/16/2015	12:07:12	0	4.102	11.9	4.3	-0.198
6/16/2015	16:07:12	0	4.137	11.9	4.3	-0.163
6/16/2015	20:07:12	0	4.422	11.9	4.3	0.122
6/17/2015	0:07:12	0	4.403	11.9	4.3	0.103
6/17/2015	4:07:12	0	4.352	11.9	4.3	0.052
6/17/2015	8:07:12	0	4.383	11.9	4.3	0.083
6/17/2015	12:07:12	0	4.236	12	4.3	-0.064
6/17/2015	16:07:12	0	4.062	12	4.3	-0.238
6/17/2015	20:07:12	0	4.058	12	4.3	-0.242
6/18/2015	0:07:12	0	4.174	12	4.3	-0.126
6/18/2015	4:07:12	0	4.046	12	4.3	-0.254
6/18/2015	8:07:12	0	4.165	12	4.3	-0.135
6/18/2015	12:07:12	0	4.038	12	4.3	-0.262
6/18/2015	16:07:12	0	3.902	12	4.3	-0.398
6/18/2015	20:07:12	0	3.969	12	4.3	-0.331
6/19/2015	0:07:12	0	4.058	12	4.3	-0.242
6/19/2015	4:07:12	0	4.022	12	4.3	-0.278
6/19/2015	8:07:12	0	4.159	12	4.3	-0.141
6/19/2015	12:07:12	0	4.186	12	4.3	-0.114
6/19/2015	16:07:12	0	4.08	12	4.3	-0.22
6/19/2015	20:07:12	0	4.115	12	4.3	-0.185
6/20/2015	0:07:12	0	4.201	12	4.3	-0.099
6/20/2015	4:07:12	0	4.152	12	4.3	-0.148
6/20/2015	8:07:12	0	4.169	12.1	4.3	-0.131
6/20/2015	12:07:12	0	3.967	12.1	4.3	-0.333
6/20/2015	16:07:12	0	3.918	12.1	4.3	-0.382
6/20/2015	20:07:12	0	3.884	12.1	4.3	-0.416
6/21/2015	0:07:12	0	3.962	12.1	4.3	-0.338
6/21/2015	4:07:12	0	3.951	12.1	4.3	-0.349
6/21/2015	8:07:12	0	4.138	12.1	4.3	-0.162
6/21/2015	12:07:12	0	4.346	12.1	4.3	0.046
6/21/2015	16:07:12	0	4.337	12.1	4.3	0.037
6/21/2015	20:07:12	0	4.435	12.1	4.3	0.135
6/22/2015	0:07:12	0	4.509	12.1	4.3	0.209
6/22/2015	4:07:12	0	4.423	12.1	4.3	0.123
6/22/2015	8:07:12	0	4.526	12.1	4.3	0.226
6/22/2015	12:07:12	0	4.373	12.1	4.3	0.073
6/22/2015	16:07:12	0	4.329	12.1	4.3	0.029
6/22/2015	20:07:12	0	4.21	12.1	4.3	-0.09
6/23/2015	0:07:12	0	4.268	12.1	4.3	-0.032
6/23/2015	4:07:12	0	4.188	12.1	4.3	-0.112
6/23/2015	8:07:12	0	4.067	12.1	4.3	-0.233
6/23/2015	12:07:12	0	4.115	12.1	4.3	-0.185
6/23/2015	16:07:12	0	4.179	12.2	4.3	-0.121
6/23/2015	20:07:12	0	4.292	12.2	4.3	-0.008
6/24/2015	0:07:12	0	4.412	12.2	4.3	0.112
6/24/2015	4:07:12	0	4.285	12.2	4.3	-0.015
6/24/2015	8:07:12	0	4.37	12.2	4.3	0.07
6/24/2015	12:07:12	0	4.193	12.2	4.3	-0.107
6/24/2015	16:07:12	0	4.087	12.2	4.3	-0.213
6/24/2015	20:07:12	0	4.135	12.3	4.3	-0.165
6/25/2015	0:07:12	0	4.189	12.3	4.3	-0.111
6/25/2015	4:07:12	0	4.108	12.3	4.3	-0.192
6/25/2015	8:07:12	0	4.183	12.3	4.3	-0.117
6/25/2015	12:07:12	0	4.068	12.3	4.3	-0.232
6/25/2015	16:07:12	0	3.925	12.3	4.3	-0.375
6/25/2015	20:07:12	0	4.011	12.3	4.3	-0.289
6/26/2015	0:07:12	0	4.078	12.3	4.3	-0.222
6/26/2015	4:07:12	0	4.084	12.3	4.3	-0.216
6/26/2015	8:07:12	0	4.18	12.4	4.3	-0.12
6/26/2015	12:07:12	0	4.11	12.4	4.3	-0.19
6/26/2015	16:07:12	0	4.012	12.4	4.3	-0.288
6/26/2015	20:07:12	0	4.101	12.4	4.3	-0.199
6/27/2015	0:07:12	0	4.138	12.4	4.3	-0.162
6/27/2015	4:07:12	0	4.089	12.4	4.3	-0.211
6/27/2015	8:07:12	0	4.187	12.4	4.3	-0.113
6/27/2015	12:07:12	0	3.971	12.4	4.3	-0.329
6/27/2015	16:07:12	0	4.001	12.4	4.3	-0.299
6/27/2015	20:07:12	0	3.938	12.4	4.3	-0.362
6/28/2015	0:07:12	0	3.93	12.4	4.3	-0.37
6/28/2015	4:07:12	0	3.936	12.4	4.3	-0.364
6/28/2015	8:07:12	0	4.148	12.4	4.3	-0.152
6/28/2015	12:07:12	0	4.145	12.4	4.3	-0.155
6/28/2015	16:07:12	0	4.264	12.4	4.3	-0.036
6/28/2015	20:07:12	0	4.348	12.4	4.3	0.048
6/29/2015	0:07:12	0	4.238	12.4	4.3	-0.062
6/29/2015	4:07:12	0	4.276	12.4	4.3	-0.024
6/29/2015	8:07:12	0	4.371	12.4	4.3	0.071
6/29/2015	12:07:12	0	4.331	12.4	4.3	0.031
6/29/2015	16:07:12	0	4.241	12.4	4.3	-0.059
6/29/2015	20:07:12	0	4.3	12.4	4.3	0
6/30/2015	0:07:12	0	4.344	12.4	4.3	0.044
6/30/2015	4:07:12	0	4.283	12.3	4.3	-0.017
6/30/2015	8:07:12	0	4.304	12.3	4.3	0.004

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6/30/2015	12:07:12	0	4.16	12.3	4.3	-0.14
6/30/2015	16:07:12	0	4.11	12.3	4.3	-0.19
6/30/2015	20:07:12	0	4.172	12.3	4.3	-0.128
7/1/2015	0:07:12	0	4.184	12.3	4.3	-0.116
7/1/2015	4:07:12	0	4.119	12.3	4.3	-0.181
7/1/2015	8:07:12	0	4.38	12.3	4.3	0.08
7/1/2015	12:07:12	0	4.462	12.3	4.3	0.162
7/1/2015	16:07:12	0	4.362	12.2	4.3	0.062
7/1/2015	20:07:12	0	4.635	12.2	4.3	0.335
7/2/2015	0:07:12	0	4.614	12.2	4.3	0.314
7/2/2015	4:07:12	0	4.444	12.2	4.3	0.144
7/2/2015	8:07:12	0	4.537	12.2	4.3	0.237
7/2/2015	12:07:12	0	4.476	12.2	4.3	0.176
7/2/2015	16:07:12	0	4.347	12.2	4.3	0.047
7/2/2015	20:07:12	0	4.337	12.2	4.3	0.037
7/3/2015	0:07:12	0	4.428	12.2	4.3	0.128
7/3/2015	4:07:12	0	4.448	12.2	4.3	0.148
7/3/2015	8:07:12	0	4.52	12.2	4.3	0.22
7/3/2015	12:07:12	0	4.352	12.2	4.3	0.052
7/3/2015	16:07:12	0	4.258	12.2	4.3	-0.042
7/3/2015	20:07:12	0	4.269	12.2	4.3	-0.031
7/4/2015	0:07:12	0	4.378	12.2	4.3	0.078
7/4/2015	4:07:12	0	4.286	12.2	4.3	-0.014
7/4/2015	8:07:12	0	4.335	12.2	4.3	0.035
7/4/2015	12:07:12	0	4.36	12.2	4.3	0.06
7/4/2015	16:07:12	0	4.336	12.2	4.3	0.036
7/4/2015	20:07:12	0	4.287	12.2	4.3	-0.013
7/5/2015	0:07:12	0	4.43	12.2	4.3	0.13
7/5/2015	4:07:12	0	4.364	12.2	4.3	0.064
7/5/2015	8:07:12	0	4.452	12.2	4.3	0.152
7/5/2015	12:07:12	0	4.314	12.2	4.3	0.014
7/5/2015	16:07:12	0	4.231	12.2	4.3	-0.069
7/5/2015	20:07:12	0	4.21	12.2	4.3	-0.09
7/6/2015	0:07:12	0	4.343	12.2	4.3	0.043
7/6/2015	4:07:12	0	4.254	12.2	4.3	-0.046
7/6/2015	8:07:12	0	4.315	12.2	4.3	0.015
7/6/2015	12:07:12	0	4.205	12.2	4.3	-0.095
7/6/2015	16:07:12	0	4.072	12.2	4.3	-0.228
7/6/2015	20:07:12	0	4.088	12.2	4.3	-0.212
7/7/2015	0:07:12	0	4.159	12.2	4.3	-0.141
7/7/2015	4:07:12	0	4.136	12.3	4.3	-0.164
7/7/2015	8:07:12	0	4.152	12.3	4.3	-0.148
7/7/2015	12:07:12	0	4.067	12.3	4.3	-0.233
7/7/2015	16:07:12	0	4.065	12.3	4.3	-0.235
7/7/2015	20:07:12	0	4.142	12.3	4.3	-0.158
7/8/2015	0:07:12	0	4.202	12.3	4.3	-0.098
7/8/2015	4:07:12	0	4.092	12.3	4.3	-0.208
7/8/2015	8:07:12	0	4.286	12.3	4.3	-0.014
7/8/2015	12:07:12	0	4.268	12.4	4.3	-0.032
7/8/2015	16:07:12	0	4.104	12.4	4.3	-0.196
7/8/2015	20:07:12	0	4.174	12.4	4.3	-0.126
7/9/2015	0:07:12	0	4.159	12.4	4.3	-0.141
7/9/2015	4:07:12	0	4.179	12.4	4.3	-0.121
7/9/2015	8:07:12	0	4.203	12.4	4.3	-0.097
7/9/2015	12:07:12	0	4.057	12.5	4.3	-0.243
7/9/2015	16:07:12	0	3.942	12.5	4.3	-0.358
7/9/2015	20:07:12	0	4.008	12.5	4.3	-0.292
7/10/2015	0:07:12	0	4.214	12.5	4.3	-0.086
7/10/2015	4:07:12	0	4.403	12.5	4.3	0.103
7/10/2015	8:07:12	0	4.579	12.5	4.3	0.279
7/10/2015	12:07:12	0	4.372	12.5	4.3	0.072
7/10/2015	16:07:12	0	4.272	12.6	4.3	-0.028
7/10/2015	20:07:12	0	4.321	12.6	4.3	0.021
7/11/2015	0:07:12	0	4.391	12.6	4.3	0.091
7/11/2015	4:07:12	0	4.351	12.6	4.3	0.051
7/11/2015	8:07:12	0	4.459	12.6	4.3	0.159
7/11/2015	12:07:12	0	4.271	12.6	4.3	-0.029
7/11/2015	16:07:12	0	4.169	12.6	4.3	-0.131
7/11/2015	20:07:12	0	4.168	12.6	4.3	-0.132
7/12/2015	0:07:12	0	4.291	12.6	4.3	-0.009
7/12/2015	4:07:12	0	4.199	12.7	4.3	-0.101
7/12/2015	8:07:12	0	4.269	12.7	4.3	-0.031
7/12/2015	12:07:12	0	4.185	12.7	4.3	-0.115
7/12/2015	16:07:12	0	4.044	12.7	4.3	-0.256
7/12/2015	20:07:12	0	4.088	12.7	4.3	-0.212
7/13/2015	0:07:12	0	4.186	12.7	4.3	-0.114
7/13/2015	4:07:12	0	4.117	12.7	4.3	-0.183
7/13/2015	8:07:12	0	4.194	12.7	4.3	-0.106
7/13/2015	12:07:12	0	4.113	12.8	4.3	-0.187
7/13/2015	16:07:12	0	3.988	12.8	4.3	-0.312
7/13/2015	20:07:12	0	4.112	12.8	4.3	-0.188
7/14/2015	0:07:12	0	4.185	12.8	4.3	-0.115
7/14/2015	4:07:12	0	4.12	12.8	4.3	-0.18
7/14/2015	8:07:12	0	4.151	12.8	4.3	-0.149
7/14/2015	12:07:12	0	4.051	12.8	4.3	-0.249
7/14/2015	16:07:12	0	4.039	12.9	4.3	-0.261
7/14/2015	20:07:12	0	4.062	12.9	4.3	-0.238

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7/15/2015	0:07:12	0	4.188	12.9	4.3	-0.112
7/15/2015	4:07:12	0	4.105	12.9	4.3	-0.195
7/15/2015	8:07:12	0	4.276	12.9	4.3	-0.024
7/15/2015	12:07:12	0	4.245	12.9	4.3	-0.055
7/15/2015	16:07:12	0	4.174	12.9	4.3	-0.126
7/15/2015	20:07:12	0	4.244	13	4.3	-0.056
7/16/2015	0:07:12	0	4.279	13	4.3	-0.021
7/16/2015	4:07:12	0	4.172	13	4.3	-0.128
7/16/2015	8:07:12	0	4.274	13	4.3	-0.026
7/16/2015	12:07:12	0	4.023	13	4.3	-0.277
7/16/2015	16:07:12	0	3.95	13	4.3	-0.35
7/16/2015	20:07:12	0	3.988	13	4.3	-0.312
7/17/2015	0:07:12	0	4.07	13	4.3	-0.23
7/17/2015	4:07:12	0	4.082	13	4.3	-0.218
7/17/2015	8:07:12	0	4.12	13.1	4.3	-0.18
7/17/2015	12:07:12	0	3.97	13.1	4.3	-0.33
7/17/2015	16:07:12	0	3.854	13.1	4.3	-0.446
7/17/2015	20:07:12	0	3.907	13.1	4.3	-0.393
7/18/2015	0:07:12	0	3.999	13.1	4.3	-0.301
7/18/2015	4:07:12	0	3.969	13.1	4.3	-0.331
7/18/2015	8:07:12	0	4.089	13.1	4.3	-0.211
7/18/2015	12:07:12	0	4.049	13.1	4.3	-0.251
7/18/2015	16:07:12	0	3.992	13.1	4.3	-0.308
7/18/2015	20:07:12	0	4.039	13.1	4.3	-0.261
7/19/2015	0:07:12	0	4.182	13.1	4.3	-0.118
7/19/2015	4:07:12	0	4.167	13.1	4.3	-0.133
7/19/2015	8:07:12	0	4.151	13.1	4.3	-0.149
7/19/2015	12:07:12	0	4.064	13.1	4.3	-0.236
7/19/2015	16:07:12	0	3.98	13.1	4.3	-0.32
7/19/2015	20:07:12	0	4.174	13.1	4.3	-0.126
7/20/2015	0:07:12	0	4.097	13.1	4.3	-0.203
7/20/2015	4:07:12	0	4.123	13.1	4.3	-0.177
7/20/2015	8:07:12	0	4.241	13.1	4.3	-0.059
7/20/2015	12:07:12	0	4.139	13.1	4.3	-0.161
7/20/2015	16:07:12	0	4.095	13.1	4.3	-0.205
7/20/2015	20:07:12	0	4.046	13.1	4.3	-0.254
7/21/2015	0:07:12	0	4.103	13.1	4.3	-0.197
7/21/2015	4:07:12	0	4.088	13.2	4.3	-0.212
7/21/2015	8:07:12	0	4.109	13.2	4.3	-0.191
7/21/2015	12:07:12	0	4.029	13.2	4.3	-0.271
7/21/2015	16:07:12	0	3.943	13.2	4.3	-0.357
7/21/2015	20:07:12	0	4.067	13.2	4.3	-0.233
7/22/2015	0:07:12	0	4.158	13.2	4.3	-0.142
7/22/2015	4:07:12	0	4.099	13.2	4.3	-0.201
7/22/2015	8:07:12	0	4.233	13.2	4.3	-0.067
7/22/2015	12:07:12	0	4.072	13.3	4.3	-0.228
7/22/2015	16:07:12	0	3.956	13.3	4.3	-0.344
7/22/2015	20:07:12	0	4.065	13.3	4.3	-0.235
7/23/2015	0:07:12	0	4.151	13.3	4.3	-0.149
7/23/2015	4:07:12	0	4.024	13.3	4.3	-0.276
7/23/2015	8:07:12	0	4.114	13.3	4.3	-0.186
7/23/2015	12:07:12	0	3.979	13.4	4.3	-0.321
7/23/2015	16:07:12	0	3.826	13.4	4.3	-0.474
7/23/2015	20:07:12	0	3.924	13.4	4.3	-0.376
7/24/2015	0:07:12	0	4.034	13.4	4.3	-0.266
7/24/2015	4:07:12	0	3.988	13.4	4.3	-0.312
7/24/2015	8:07:12	0	4.058	13.4	4.3	-0.242
7/24/2015	12:07:12	0	3.941	13.4	4.3	-0.359
7/24/2015	16:07:12	0	3.791	13.4	4.3	-0.509
7/24/2015	20:07:12	0	4.011	13.4	4.3	-0.289
7/25/2015	0:07:12	0	4.016	13.4	4.3	-0.284
7/25/2015	4:07:12	0	4.007	13.4	4.3	-0.293
7/25/2015	8:07:12	0	4.084	13.4	4.3	-0.216
7/25/2015	12:07:12	0	3.961	13.4	4.3	-0.339
7/25/2015	16:07:12	0	3.834	13.4	4.3	-0.466
7/25/2015	20:07:12	0	3.85	13.4	4.3	-0.45
7/26/2015	0:07:12	0	3.973	13.4	4.3	-0.327
7/26/2015	4:07:12	0	3.914	13.4	4.3	-0.386
7/26/2015	8:07:12	0	3.983	13.4	4.3	-0.317
7/26/2015	12:07:12	0	3.951	13.4	4.3	-0.349
7/26/2015	16:07:12	0	3.88	13.4	4.3	-0.42
7/26/2015	20:07:12	0	3.951	13.4	4.3	-0.349
7/27/2015	0:07:12	0	4.034	13.4	4.3	-0.266
7/27/2015	4:07:12	0	3.986	13.4	4.3	-0.314
7/27/2015	8:07:12	0	4.102	13.4	4.3	-0.198
7/27/2015	12:07:12	0	3.981	13.5	4.3	-0.319
7/27/2015	16:07:12	0	3.838	13.5	4.3	-0.462
7/27/2015	20:07:12	0	3.903	13.5	4.3	-0.397
7/28/2015	0:07:12	0	3.979	13.5	4.3	-0.321
7/28/2015	4:07:12	0	3.954	13.5	4.3	-0.346
7/28/2015	8:07:12	0	4.015	13.5	4.3	-0.285
7/28/2015	12:07:12	0	3.872	13.5	4.3	-0.428
7/28/2015	16:07:12	0	3.779	13.5	4.3	-0.521
7/28/2015	20:07:12	0	3.841	13.6	4.3	-0.459
7/29/2015	0:07:12	0	3.933	13.6	4.3	-0.367
7/29/2015	4:07:12	0	3.861	13.6	4.3	-0.439
7/29/2015	8:07:12	0	3.967	13.6	4.3	-0.333

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7/29/2015	12:07:12	0	3.838	13.6	4.3	-0.462
7/29/2015	16:07:12	0	3.668	13.6	4.3	-0.632
7/29/2015	20:07:12	0	3.685	13.7	4.3	-0.615
7/30/2015	0:07:12	0	3.818	13.7	4.3	-0.482
7/30/2015	4:07:12	0	3.786	13.7	4.3	-0.514
7/30/2015	8:07:12	0	3.815	13.7	4.3	-0.485
7/30/2015	12:07:12	0	3.726	13.7	4.3	-0.574
7/30/2015	16:07:12	0	3.638	13.8	4.3	-0.662
7/30/2015	20:07:12	0	3.857	13.8	4.3	-0.443
7/31/2015	0:07:12	0	3.875	13.8	4.3	-0.425
7/31/2015	4:07:12	0	3.823	13.8	4.3	-0.477
7/31/2015	8:07:12	0	3.929	13.8	4.3	-0.371
7/31/2015	12:07:12	0	3.804	13.8	4.3	-0.496
7/31/2015	16:07:12	0	3.655	13.9	4.3	-0.645
7/31/2015	20:07:12	0	3.636	13.9	4.3	-0.664
8/1/2015	0:07:12	0	3.759	13.9	4.3	-0.541
8/1/2015	4:07:12	0	3.688	13.9	4.3	-0.612
8/1/2015	8:07:12	0	3.882	13.9	4.3	-0.418
8/1/2015	12:07:12	0	3.878	13.9	4.3	-0.422
8/1/2015	16:07:12	0	3.819	13.9	4.3	-0.481
8/1/2015	20:07:12	0	3.921	13.9	4.3	-0.379
8/2/2015	0:07:12	0	3.964	13.9	4.3	-0.336
8/2/2015	4:07:12	0	3.894	13.9	4.3	-0.406
8/2/2015	8:07:12	0	3.955	13.9	4.3	-0.345
8/2/2015	12:07:12	0	3.881	13.9	4.3	-0.419
8/2/2015	16:07:12	0	3.694	13.9	4.3	-0.606
8/2/2015	20:07:12	0	3.734	13.9	4.3	-0.566
8/3/2015	0:07:12	0	3.704	13.9	4.3	-0.596
8/3/2015	4:07:12	0	3.751	13.9	4.3	-0.549
8/3/2015	8:07:12	0	3.868	13.9	4.3	-0.432
8/3/2015	12:07:12	0	3.705	13.9	4.3	-0.595
8/3/2015	16:07:12	0	3.57	13.9	4.3	-0.73
8/3/2015	20:07:12	0	3.746	13.9	4.3	-0.554
8/4/2015	0:07:12	0	3.833	13.9	4.3	-0.467
8/4/2015	4:07:12	0	3.75	13.9	4.3	-0.55
8/4/2015	8:07:12	0	3.934	13.9	4.3	-0.366
8/4/2015	12:07:12	0	3.896	13.9	4.3	-0.404
8/4/2015	16:07:12	0	3.903	13.9	4.3	-0.397
8/4/2015	20:07:12	0	4.005	13.9	4.3	-0.295
8/5/2015	0:07:12	0	3.98	13.9	4.3	-0.32
8/5/2015	4:07:12	0	3.883	13.9	4.3	-0.417
8/5/2015	8:07:12	0	3.981	13.9	4.3	-0.319
8/5/2015	12:07:12	0	3.859	13.9	4.3	-0.441
8/5/2015	16:07:12	0	3.787	13.9	4.3	-0.513
8/5/2015	20:07:12	0	3.879	13.9	4.3	-0.421
8/6/2015	0:07:12	0	3.963	13.9	4.3	-0.337
8/6/2015	4:07:12	0	3.872	13.9	4.3	-0.428
8/6/2015	8:07:12	0	3.922	13.9	4.3	-0.378
8/6/2015	12:07:12	0	3.864	13.9	4.3	-0.436
8/6/2015	16:07:12	0	3.698	13.9	4.3	-0.602
8/6/2015	20:07:12	0	3.744	13.9	4.3	-0.556
8/7/2015	0:07:12	0	3.866	13.9	4.3	-0.434
8/7/2015	4:07:12	0	3.797	13.9	4.3	-0.503
8/7/2015	8:07:12	0	3.912	13.9	4.3	-0.388
8/7/2015	12:07:12	0	3.784	13.9	4.3	-0.516
8/7/2015	16:07:12	0	3.628	13.9	4.3	-0.672
8/7/2015	20:07:12	0	3.707	13.9	4.3	-0.593
8/8/2015	0:07:12	0	3.786	13.9	4.3	-0.514
8/8/2015	4:07:12	0	3.756	13.9	4.3	-0.544
8/8/2015	8:07:12	0	3.848	13.9	4.3	-0.452
8/8/2015	12:07:12	0	3.751	13.9	4.3	-0.549
8/8/2015	16:07:12	0	3.63	13.9	4.3	-0.67
8/8/2015	20:07:12	0	3.681	13.9	4.3	-0.619
8/9/2015	0:07:12	0	3.764	13.9	4.3	-0.536
8/9/2015	4:07:12	0	3.708	13.9	4.3	-0.592
8/9/2015	8:07:12	0	3.773	13.9	4.3	-0.527
8/9/2015	12:07:12	0	3.698	13.9	4.3	-0.602
8/9/2015	16:07:12	0	3.551	13.9	4.3	-0.749
8/9/2015	20:07:12	0	3.611	13.9	4.3	-0.689
8/10/2015	0:07:12	0	3.668	13.8	4.3	-0.632
8/10/2015	4:07:12	0	3.651	13.8	4.3	-0.649
8/10/2015	8:07:12	0	3.751	13.8	4.3	-0.549
8/10/2015	12:07:12	0	3.605	13.8	4.3	-0.695
8/10/2015	16:07:12	0	3.494	13.8	4.3	-0.806
8/10/2015	20:07:12	0	3.518	13.8	4.3	-0.782
8/11/2015	0:07:12	0	3.593	13.8	4.3	-0.707
8/11/2015	4:07:12	0	3.494	13.8	4.3	-0.806
8/11/2015	8:07:12	0	3.538	13.8	4.3	-0.762
8/11/2015	12:07:12	0	3.811	13.8	4.3	-0.489
8/11/2015	16:07:12	0	3.939	13.8	4.3	-0.361
8/11/2015	20:07:12	0	4.09	13.8	4.3	-0.21
8/12/2015	0:07:12	0	4.092	13.8	4.3	-0.208
8/12/2015	4:07:12	0	4.033	13.8	4.3	-0.267
8/12/2015	8:07:12	0	4.095	13.8	4.3	-0.205
8/12/2015	12:07:12	0	4.012	13.8	4.3	-0.288
8/12/2015	16:07:12	0	3.893	13.8	4.3	-0.407
8/12/2015	20:07:12	0	4.069	13.8	4.3	-0.231

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8/13/2015	0:07:12	0	4.077	13.8	4.3	-0.223
8/13/2015	4:07:12	0	3.997	13.8	4.3	-0.303
8/13/2015	8:07:12	0	4.089	13.8	4.3	-0.211
8/13/2015	12:07:12	0	4.015	13.8	4.3	-0.285
8/13/2015	16:07:12	0	3.821	13.8	4.3	-0.479
8/13/2015	20:07:12	0	3.889	13.8	4.3	-0.411
8/14/2015	0:07:12	0	4.042	13.8	4.3	-0.258
8/14/2015	4:07:12	0	3.912	13.8	4.3	-0.388
8/14/2015	8:07:12	0	4.001	13.8	4.3	-0.299
8/14/2015	12:07:12	0	3.864	13.9	4.3	-0.436
8/14/2015	16:07:12	0	3.677	13.9	4.3	-0.623
8/14/2015	20:07:12	0	3.775	13.9	4.3	-0.525
8/15/2015	0:07:12	0	3.889	13.8	4.3	-0.411
8/15/2015	4:07:12	0	3.813	13.8	4.3	-0.487
8/15/2015	8:07:12	0	3.939	13.8	4.3	-0.361
8/15/2015	12:07:12	0	3.815	13.9	4.3	-0.485
8/15/2015	16:07:12	0	3.66	13.9	4.3	-0.64
8/15/2015	20:07:12	0	3.873	13.9	4.3	-0.427
8/16/2015	0:07:12	0	3.968	13.9	4.3	-0.332
8/16/2015	4:07:12	0	3.921	13.9	4.3	-0.379
8/16/2015	8:07:12	0	3.95	13.9	4.3	-0.35
8/16/2015	12:07:12	0	3.893	13.9	4.3	-0.407
8/16/2015	16:07:12	0	3.739	13.9	4.3	-0.561
8/16/2015	20:07:12	0	3.777	13.9	4.3	-0.523
8/17/2015	0:07:12	0	3.93	13.9	4.3	-0.37
8/17/2015	4:07:12	0	3.827	13.9	4.3	-0.473
8/17/2015	8:07:12	0	3.922	13.9	4.3	-0.378
8/17/2015	12:07:12	0	3.784	14	4.3	-0.516
8/17/2015	16:07:12	0	3.647	14	4.3	-0.653
8/17/2015	20:07:12	0	3.677	14	4.3	-0.623
8/18/2015	0:07:12	0	3.816	14	4.3	-0.484
8/18/2015	4:07:12	0	3.787	14	4.3	-0.513
8/18/2015	8:07:12	0	3.826	14	4.3	-0.474
8/18/2015	12:07:12	0	3.708	14	4.3	-0.592
8/18/2015	16:07:12	0	3.548	14.1	4.3	-0.752
8/18/2015	20:07:12	0	3.716	14.1	4.3	-0.584
8/19/2015	0:07:12	0	3.745	14.1	4.3	-0.555
8/19/2015	4:07:12	0	3.743	14.1	4.3	-0.557
8/19/2015	8:07:12	0	3.816	14.1	4.3	-0.484
8/19/2015	12:07:12	0	3.685	14.1	4.3	-0.615
8/19/2015	16:07:12	0	3.531	14.2	4.3	-0.769
8/19/2015	20:07:12	0	3.606	14.2	4.3	-0.694
8/20/2015	0:07:12	0	3.703	14.2	4.3	-0.597
8/20/2015	4:07:12	0	3.6	14.2	4.3	-0.7
8/20/2015	8:07:12	0	3.689	14.2	4.3	-0.611
8/20/2015	12:07:12	0	3.616	14.3	4.3	-0.684
8/20/2015	16:07:12	0	3.447	14.3	4.3	-0.853
8/20/2015	20:07:12	0	3.513	14.3	4.3	-0.787
8/21/2015	0:07:12	0	3.602	14.3	4.3	-0.698
8/21/2015	4:07:12	0	3.551	14.3	4.3	-0.749
8/21/2015	8:07:12	0	3.891	14.3	4.3	-0.409
8/21/2015	12:07:12	0	3.847	14.4	4.3	-0.453
8/21/2015	16:07:12	0	3.795	14.4	4.3	-0.505
8/21/2015	20:07:12	0	3.864	14.4	4.3	-0.436
8/22/2015	0:07:12	0	3.91	14.4	4.3	-0.39
8/22/2015	4:07:12	0	3.848	14.4	4.3	-0.452
8/22/2015	8:07:12	0	3.923	14.4	4.3	-0.377
8/22/2015	12:07:12	0	3.775	14.4	4.3	-0.525
8/22/2015	16:07:12	0	3.671	14.4	4.3	-0.629
8/22/2015	20:07:12	0	3.745	14.4	4.3	-0.555
8/23/2015	0:07:12	0	3.771	14.4	4.3	-0.529
8/23/2015	4:07:12	0	3.727	14.4	4.3	-0.573
8/23/2015	8:07:12	0	3.796	14.4	4.3	-0.504
8/23/2015	12:07:12	0	3.623	14.4	4.3	-0.677
8/23/2015	16:07:12	0	3.621	14.4	4.3	-0.679
8/23/2015	20:07:12	0	3.612	14.4	4.3	-0.688
8/24/2015	0:07:12	0	3.711	14.4	4.3	-0.589
8/24/2015	4:07:12	0	3.638	14.4	4.3	-0.662
8/24/2015	8:07:12	0	3.777	14.4	4.3	-0.523
8/24/2015	12:07:12	0	3.606	14.4	4.3	-0.694
8/24/2015	16:07:12	0	3.503	14.4	4.3	-0.797
8/24/2015	20:07:12	0	3.562	14.4	4.3	-0.738
8/25/2015	0:07:12	0	3.733	14.4	4.3	-0.567
8/25/2015	4:07:12	0	3.641	14.4	4.3	-0.659
8/25/2015	8:07:12	0	3.871	14.4	4.3	-0.429
8/25/2015	12:07:12	0	3.963	14.4	4.3	-0.337
8/25/2015	16:07:12	0	3.817	14.4	4.3	-0.483
8/25/2015	20:07:12	0	3.951	14.4	4.3	-0.349
8/26/2015	0:07:12	0	4.004	14.4	4.3	-0.296
8/26/2015	4:07:12	0	3.917	14.4	4.3	-0.383
8/26/2015	8:07:12	0	3.969	14.4	4.3	-0.331
8/26/2015	12:07:12	0	3.91	14.4	4.3	-0.39
8/26/2015	16:07:12	0	3.748	14.4	4.3	-0.552
8/26/2015	20:07:12	0	3.832	14.4	4.3	-0.468
8/27/2015	0:07:12	0	3.935	14.4	4.3	-0.365
8/27/2015	4:07:12	0	3.795	14.4	4.3	-0.505
8/27/2015	8:07:12	0	3.958	14.4	4.3	-0.342

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8/27/2015	12:07:12	0	3.854	14.4	4.3	-0.446
8/27/2015	16:07:12	0	3.724	14.4	4.3	-0.576
8/27/2015	20:07:12	0	3.848	14.4	4.3	-0.452
8/28/2015	0:07:12	0	3.897	14.4	4.3	-0.403
8/28/2015	4:07:12	0	3.818	14.4	4.3	-0.482
8/28/2015	8:07:12	0	3.88	14.4	4.3	-0.42
8/28/2015	12:07:12	0	3.822	14.4	4.3	-0.478
8/28/2015	16:07:12	0	3.604	14.4	4.3	-0.696
8/28/2015	20:07:12	0	3.743	14.4	4.3	-0.557
8/29/2015	0:07:12	0	3.799	14.3	4.3	-0.501
8/29/2015	4:07:12	0	3.724	14.3	4.3	-0.576
8/29/2015	8:07:12	0	3.803	14.3	4.3	-0.497
8/29/2015	12:07:12	0	3.679	14.3	4.3	-0.621
8/29/2015	16:07:12	0	3.463	14.3	4.3	-0.837
8/29/2015	20:07:12	0	3.576	14.3	4.3	-0.724
8/30/2015	0:07:12	0	3.666	14.2	4.3	-0.634
8/30/2015	4:07:12	0	3.623	14.2	4.3	-0.677
8/30/2015	8:07:12	0	3.758	14.2	4.3	-0.542
8/30/2015	12:07:12	0	3.644	14.2	4.3	-0.656
8/30/2015	16:07:12	0	3.472	14.2	4.3	-0.828
8/30/2015	20:07:12	0	3.571	14.2	4.3	-0.729
8/31/2015	0:07:12	0	3.624	14.2	4.3	-0.676
8/31/2015	4:07:12	0	3.585	14.2	4.3	-0.715
8/31/2015	8:07:12	0	3.687	14.1	4.3	-0.613
8/31/2015	12:07:12	0	3.599	14.1	4.3	-0.701
8/31/2015	16:07:12	0	3.419	14.1	4.3	-0.881
8/31/2015	20:07:12	0	3.619	14.1	4.3	-0.681
9/1/2015	0:07:12	0	3.637	14.1	4.3	-0.663
9/1/2015	4:07:12	0	3.642	14.1	4.3	-0.658
9/1/2015	8:07:12	0	3.693	14.1	4.3	-0.607
9/1/2015	12:07:12	0	3.589	14.1	4.3	-0.711
9/1/2015	16:07:12	0	3.402	14.1	4.3	-0.898
9/1/2015	20:07:12	0	3.479	14.1	4.3	-0.821
9/2/2015	0:07:12	0	3.56	14.1	4.3	-0.74
9/2/2015	4:07:12	0	3.468	14.1	4.3	-0.832
9/2/2015	8:07:12	0	3.563	14.1	4.3	-0.737
9/2/2015	12:07:12	0	3.455	14.2	4.3	-0.845
9/2/2015	16:07:12	0	3.283	14.2	4.3	-1.017
9/2/2015	20:07:12	0	3.362	14.2	4.3	-0.938
9/3/2015	0:07:12	0	3.441	14.2	4.3	-0.859
9/3/2015	4:07:12	0	3.43	14.2	4.3	-0.87
9/3/2015	8:07:12	0	3.581	14.2	4.3	-0.719
9/3/2015	12:07:12	0	3.424	14.2	4.3	-0.876
9/3/2015	16:07:12	0	3.289	14.2	4.3	-1.011
9/3/2015	20:07:12	0	3.452	14.2	4.3	-0.848
9/4/2015	0:07:12	0	3.544	14.2	4.3	-0.756
9/4/2015	4:07:12	0	3.501	14.2	4.3	-0.799
9/4/2015	8:07:12	0	3.677	14.2	4.3	-0.623
9/4/2015	12:07:12	0	3.507	14.2	4.3	-0.793
9/4/2015	16:07:12	0	3.307	14.2	4.3	-0.993
9/4/2015	20:07:12	0	3.413	14.2	4.3	-0.887
9/5/2015	0:07:12	0	3.452	14.2	4.3	-0.848
9/5/2015	4:07:12	0	3.359	14.2	4.3	-0.941
9/5/2015	8:07:12	0	3.521	14.2	4.3	-0.779
9/5/2015	12:07:12	0	3.28	14.3	4.3	-1.02
9/5/2015	16:07:12	0	3.128	14.3	4.3	-1.172
9/5/2015	20:07:12	0	3.251	14.3	4.3	-1.049
9/6/2015	0:07:12	0	3.297	14.3	4.3	-1.003
9/6/2015	4:07:12	0	3.318	14.3	4.3	-0.982
9/6/2015	8:07:12	0	3.379	14.3	4.3	-0.921
9/6/2015	12:07:12	0	3.242	14.3	4.3	-1.058
9/6/2015	16:07:12	0	3.089	14.3	4.3	-1.211
9/6/2015	20:07:12	0	3.144	14.2	4.3	-1.156
9/7/2015	0:07:12	0	3.242	14.2	4.3	-1.058
9/7/2015	4:07:12	0	3.205	14.2	4.3	-1.095
9/7/2015	8:07:12	0	3.329	14.2	4.3	-0.971
9/7/2015	12:07:12	0	3.176	14.2	4.3	-1.124
9/7/2015	16:07:12	0	3.016	14.2	4.3	-1.284
9/7/2015	20:07:12	0	3.112	14.2	4.3	-1.188
9/8/2015	0:07:12	0	3.267	14.2	4.3	-1.033
9/8/2015	4:07:12	0	3.242	14.2	4.3	-1.058
9/8/2015	8:07:12	0	3.308	14.2	4.3	-0.992
9/8/2015	12:07:12	0	3.182	14.2	4.3	-1.118
9/8/2015	16:07:12	0	2.979	14.2	4.3	-1.321
9/8/2015	20:07:12	0	3.111	14.2	4.3	-1.189
9/9/2015	0:07:12	0	3.204	14.2	4.3	-1.096
9/9/2015	4:07:12	0	3.151	14.2	4.3	-1.149
9/9/2015	8:07:12	0	3.211	14.2	4.3	-1.089
9/9/2015	12:07:12	0	3.087	14.2	4.3	-1.213
9/9/2015	16:07:12	0	2.948	14.2	4.3	-1.352
9/9/2015	20:07:12	0	3.248	14.2	4.3	-1.052
9/10/2015	0:07:12	0	3.364	14.2	4.3	-0.936
9/10/2015	4:07:12	0	3.251	14.2	4.3	-1.049
9/10/2015	8:07:12	0	3.375	14.3	4.3	-0.925
9/10/2015	12:07:12	0	3.338	14.3	4.3	-0.962
9/10/2015	16:07:12	0	3.158	14.3	4.3	-1.142
9/10/2015	20:07:12	0	3.328	14.3	4.3	-0.972

Ground Water Level Data - 2015
Replication Area B - Well #1
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area B - Well #1
Pittsfield Airport, Pittsfield, MA

9/11/2015	0:07:12	0	3.512	14.3	4.3	-0.788
9/11/2015	4:07:12	0	3.579	14.3	4.3	-0.721
9/11/2015	8:07:12	0	3.759	14.3	4.3	-0.541
9/11/2015	12:07:12	0	3.67	14.3	4.3	-0.63
9/11/2015	16:07:12	0	3.593	14.3	4.3	-0.707
9/11/2015	20:07:12	0	3.68	14.3	4.3	-0.62
9/12/2015	0:07:12	0	3.716	14.3	4.3	-0.584
9/12/2015	4:07:12	0	3.654	14.3	4.3	-0.646
9/12/2015	8:07:12	0	3.694	14.3	4.3	-0.606
9/12/2015	12:07:12	0	3.548	14.3	4.3	-0.752
9/12/2015	16:07:12	0	3.439	14.3	4.3	-0.861
9/12/2015	20:07:12	0	3.769	14.3	4.3	-0.531
9/13/2015	0:07:12	0	3.801	14.3	4.3	-0.499
9/13/2015	4:07:12	0	3.888	14.3	4.3	-0.412
9/13/2015	8:07:12	0	4.064	14.3	4.3	-0.236
9/13/2015	12:07:12	0	4	14.2	4.3	-0.3
9/13/2015	16:07:12	0	3.87	14.2	4.3	-0.43
9/13/2015	20:07:12	0	4.039	14.2	4.3	-0.261
9/14/2015	0:07:12	0	4.017	14.2	4.3	-0.283
9/14/2015	4:07:12	0	3.967	14.2	4.3	-0.333
9/14/2015	8:07:12	0	4.058	14.2	4.3	-0.242
9/14/2015	12:07:12	0	4.091	14.2	4.3	-0.209
9/14/2015	16:07:12	0	4.065	14.2	4.3	-0.235
9/14/2015	20:07:12	0	4.067	14.2	4.3	-0.233
9/15/2015	0:07:12	0	4.056	14.2	4.3	-0.244
9/15/2015	4:07:12	0	4.033	13.9	4.3	-0.267
9/15/2015	8:07:12	0	4.032	13.9	4.3	-0.268
9/15/2015	12:07:12	0	3.925	14.1	4.3	-0.375
9/15/2015	16:07:12	0	3.738	14.1	4.3	-0.562
9/15/2015	20:07:12	0	3.875	14.1	4.3	-0.425
9/16/2015	0:07:12	0	3.909	14.1	4.3	-0.391
9/16/2015	4:07:12	0	3.854	13.9	4.3	-0.446
9/16/2015	8:07:12	0	3.923	13.8	4.3	-0.377
9/16/2015	12:07:12	0	3.808	14	4.3	-0.492
9/16/2015	16:07:12	0	3.61	14	4.3	-0.69
9/16/2015	20:07:12	0	3.723	14	4.3	-0.577
9/17/2015	0:07:12	0	3.808	14	4.3	-0.492
9/17/2015	4:07:12	0	3.739	13.9	4.3	-0.561
9/17/2015	8:07:12	0	3.824	13.9	4.3	-0.476
9/17/2015	12:07:12	0	3.725	13.9	4.3	-0.575
9/17/2015	16:07:12	0	3.562	13.9	4.3	-0.738
9/17/2015	20:07:12	0	3.711	13.9	4.3	-0.589
9/18/2015	0:07:12	0	3.757	13.9	4.3	-0.543
9/18/2015	4:07:12	0	3.716	13.9	4.3	-0.584
9/18/2015	8:07:12	0	3.828	13.9	4.3	-0.472
9/18/2015	12:07:12	0	3.692	13.9	4.3	-0.608
9/18/2015	16:07:12	0	3.566	13.8	4.3	-0.734
9/18/2015	20:07:12	0	3.686	13.8	4.3	-0.614
9/19/2015	0:07:12	0	3.754	13.8	4.3	-0.546
9/19/2015	4:07:12	0	3.639	13.8	4.3	-0.661
9/19/2015	8:07:12	0	3.765	13.8	4.3	-0.535
9/19/2015	12:07:12	0	3.616	13.8	4.3	-0.684
9/19/2015	16:07:12	0	3.505	13.8	4.3	-0.795
9/19/2015	20:07:12	0	3.575	13.8	4.3	-0.725
9/20/2015	0:07:12	0	3.652	13.8	4.3	-0.648
9/20/2015	4:07:12	0	3.826	13.8	4.3	-0.474
9/20/2015	8:07:12	0	3.844	13.8	4.3	-0.456
9/20/2015	12:07:12	0	3.839	13.8	4.3	-0.461
9/20/2015	16:07:12	0	3.574	13.8	4.3	-0.726
9/20/2015	20:07:12	0	3.692	13.8	4.3	-0.608
9/21/2015	0:07:12	0	3.687	13.8	4.3	-0.613
9/21/2015	4:07:12	0	3.677	13.8	4.3	-0.623
9/21/2015	8:07:12	0	3.756	13.7	4.3	-0.544
9/21/2015	12:07:12	0	3.652	13.7	4.3	-0.648
9/21/2015	16:07:12	0	3.505	13.7	4.3	-0.795
9/21/2015	20:07:12	0	3.552	13.7	4.3	-0.748
9/22/2015	0:07:12	0	3.568	13.7	4.3	-0.732
9/22/2015	4:07:12	0	3.571	13.7	4.3	-0.729
9/22/2015	8:07:12	0	3.661	13.7	4.3	-0.639
9/22/2015	12:07:12	0	3.543	13.7	4.3	-0.757
9/22/2015	16:07:12	0	3.404	13.6	4.3	-0.896
9/22/2015	20:07:12	0	3.485	13.6	4.3	-0.815
9/23/2015	0:07:12	0	3.499	13.6	4.3	-0.801
9/23/2015	4:07:12	0	3.482	13.5	4.3	-0.818
9/23/2015	8:07:12	0	3.567	13.5	4.3	-0.733
9/23/2015	12:07:12	0	3.473	13.5	4.3	-0.827
9/23/2015	16:07:12	0	3.344	13.5	4.3	-0.956
9/23/2015	20:07:12	0	3.438	13.5	4.3	-0.862
9/24/2015	0:07:12	0	3.496	13.5	4.3	-0.804
9/24/2015	4:07:12	0	3.53	13.4	4.3	-0.77
9/24/2015	8:07:12	0	3.592	13.4	4.3	-0.708
9/24/2015	12:07:12	0	3.506	13.4	4.3	-0.794
9/24/2015	16:07:12	0	3.304	13.4	4.3	-0.996
9/24/2015	20:07:12	0	3.429	13.4	4.3	-0.871
9/25/2015	0:07:12	0	3.499	13.4	4.3	-0.801
9/25/2015	4:07:12	0	3.408	13.3	4.3	-0.892
9/25/2015	8:07:12	0	3.499	13.3	4.3	-0.801

Ground Water Level Data - 2015
Replication Area B - Well #1
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area B - Well #1
Pittsfield Airport, Pittsfield, MA

9/25/2015	12:07:12	0	3.446	13.3	4.3	-0.854
9/25/2015	16:07:12	0	3.23	13.3	4.3	-1.07
9/25/2015	20:07:12	0	3.386	13.3	4.3	-0.914
9/26/2015	0:07:12	0	3.424	13.2	4.3	-0.876
9/26/2015	4:07:12	0	3.459	13.2	4.3	-0.841
9/26/2015	8:07:12	0	3.555	13.2	4.3	-0.745
9/26/2015	12:07:12	0	3.463	13.2	4.3	-0.837
9/26/2015	16:07:12	0	3.201	13.2	4.3	-1.099
9/26/2015	20:07:12	0	3.363	13.2	4.3	-0.937
9/27/2015	0:07:12	0	3.386	13.1	4.3	-0.914
9/27/2015	4:07:12	0	3.324	13	4.3	-0.976
9/27/2015	8:07:12	0	3.407	12.9	4.3	-0.893
9/27/2015	12:07:12	0	3.272	13	4.3	-1.028
9/27/2015	16:07:12	0	3.062	13	4.3	-1.238
9/27/2015	20:07:12	0	3.225	13	4.3	-1.075
9/28/2015	0:07:12	0	3.315	13	4.3	-0.985
9/28/2015	4:07:12	0	3.235	12.9	4.3	-1.065
9/28/2015	8:07:12	0	3.323	13	4.3	-0.977
9/28/2015	12:07:12	0	3.256	13	4.3	-1.044
9/28/2015	16:07:12	0	3.086	12.9	4.3	-1.214
9/28/2015	20:07:12	0	3.219	12.9	4.3	-1.081
9/29/2015	0:07:12	0	3.249	12.9	4.3	-1.051
9/29/2015	4:07:12	0	3.247	12.9	4.3	-1.053
9/29/2015	8:07:12	0	3.337	12.9	4.3	-0.963
9/29/2015	12:07:12	0	3.247	12.9	4.3	-1.053
9/29/2015	16:07:12	0	3.189	12.8	4.3	-1.111
9/29/2015	20:07:12	0	3.316	12.8	4.3	-0.984
9/30/2015	0:07:12	0	3.371	12.8	4.3	-0.929
9/30/2015	4:07:12	0	3.394	12.8	4.3	-0.906
9/30/2015	8:07:12	0	3.593	12.8	4.3	-0.707
9/30/2015	12:07:12	0	4.242	12.8	4.3	-0.058
9/30/2015	16:07:12	0	4.298	12.8	4.3	-0.002
9/30/2015	20:07:12	0	4.382	12.8	4.3	0.082
10/1/2015	0:07:12	0	4.246	12.8	4.3	-0.054
10/1/2015	4:07:12	0	4.154	12.6	4.3	-0.146
10/1/2015	8:07:12	0	4.2	12.6	4.3	-0.1
10/1/2015	12:07:12	0	4.107	12.8	4.3	-0.193
10/1/2015	16:07:12	0	4.039	12.9	4.3	-0.261
10/1/2015	20:07:12	0	4.16	12.9	4.3	-0.14
10/2/2015	0:07:12	0	4.06	12.8	4.3	-0.24
10/2/2015	4:07:12	0	4	12.6	4.3	-0.3
10/2/2015	8:07:12	0	4.057	12.6	4.3	-0.243
10/2/2015	12:07:12	0	4.026	12.8	4.3	-0.274
10/2/2015	16:07:12	0	4.005	12.8	4.3	-0.295
10/2/2015	20:07:12	0	4.012	12.7	4.3	-0.288
10/3/2015	0:07:12	0	3.982	12.6	4.3	-0.318
10/3/2015	4:07:12	0	3.908	12.6	4.3	-0.392
10/3/2015	8:07:12	0	4.072	12.5	4.3	-0.228
10/3/2015	12:07:12	0	3.963	12.6	4.3	-0.337
10/3/2015	16:07:12	0	3.914	12.8	4.3	-0.386
10/3/2015	20:07:12	0	3.954	12.7	4.3	-0.346
10/4/2015	0:07:12	0	3.906	12.6	4.3	-0.394
10/4/2015	4:07:12	0	3.851	12.5	4.3	-0.449
10/4/2015	8:07:12	0	3.955	12.5	4.3	-0.345
10/4/2015	12:07:12	0	3.802	12.6	4.3	-0.498
10/4/2015	16:07:12	0	3.718	12.7	4.3	-0.582
10/4/2015	20:07:12	0	3.811	12.7	4.3	-0.489
10/5/2015	0:07:12	0	3.867	12.3	4.3	-0.433
10/5/2015	4:07:12	0	3.812	12.1	4.3	-0.488
10/5/2015	8:07:12	0	3.864	12.1	4.3	-0.436
10/5/2015	12:07:12	0	3.804	12.5	4.3	-0.496
10/5/2015	16:07:12	0	3.66	12.6	4.3	-0.64
10/5/2015	20:07:12	0	3.784	12.6	4.3	-0.516
10/6/2015	0:07:12	0	3.803	12.1	4.3	-0.497
10/6/2015	4:07:12	0	3.755	11.9	4.3	-0.545
10/6/2015	8:07:12	0	3.853	11.7	4.3	-0.447

AVERAGE LEVEL ABOVE LOGGER	3.90135	***AVERAGE GW DEPTH BELOW GROUND EL***	-0.399
		MINIMUM	-1.352
		MAXIMUM	0.335
		# of readings less than 2.1'	1008

Ground Water Level Data - 2015
Replication Area B - Well #1
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area B - Well #2
Pittsfield Airport, Pittsfield, MA

Serial_number:
2046060
Project ID:
Pittsfield RW 8-26 RSA Project
Location:
Replication Area B - Well #2
LEVEL
UNIT: ft
Offset: 0.000000 ft
TEMPERATURE
UNIT: °C

Date	Time	ms	Water Level	Water Temp	Ground Level	Ground Water Depth
4/21/2015	15:07:55	0	4.529	5.3	4.4	-0.129
4/21/2015	19:07:55	0	4.59	5.3	4.4	-0.19
4/21/2015	23:07:55	0	4.588	5.3	4.4	-0.188
4/22/2015	3:07:55	0	4.522	5.4	4.4	-0.122
4/22/2015	7:07:55	0	4.468	5.4	4.4	-0.068
4/22/2015	11:07:55	0	4.296	5.4	4.4	0.104
4/22/2015	15:07:55	0	4.202	5.4	4.4	0.198
4/22/2015	19:07:55	0	4.434	5.5	4.4	-0.034
4/22/2015	23:07:55	0	4.726	5.5	4.4	-0.326
4/23/2015	3:07:55	0	4.591	5.5	4.4	-0.191
4/23/2015	7:07:55	0	4.788	5.5	4.4	-0.388
4/23/2015	11:07:55	0	4.695	5.5	4.4	-0.295
4/23/2015	15:07:55	0	4.653	5.6	4.4	-0.253
4/23/2015	19:07:55	0	4.742	5.6	4.4	-0.342
4/23/2015	23:07:55	0	4.661	5.6	4.4	-0.261
4/24/2015	3:07:55	0	4.688	5.6	4.4	-0.288
4/24/2015	7:07:55	0	4.66	5.6	4.4	-0.26
4/24/2015	11:07:55	0	4.563	5.6	4.4	-0.163
4/24/2015	15:07:55	0	4.554	5.6	4.4	-0.154
4/24/2015	19:07:55	0	4.594	5.7	4.4	-0.194
4/24/2015	23:07:55	0	4.52	5.7	4.4	-0.12
4/25/2015	3:07:55	0	4.413	5.7	4.4	-0.013
4/25/2015	7:07:55	0	4.529	5.7	4.4	-0.129
4/25/2015	11:07:55	0	4.407	5.7	4.4	-0.007
4/25/2015	15:07:55	0	4.271	5.6	4.4	0.129
4/25/2015	19:07:55	0	4.355	5.6	4.4	0.045
4/25/2015	23:07:55	0	4.395	5.6	4.4	0.005
4/26/2015	3:07:55	0	4.309	5.6	4.4	0.091
4/26/2015	7:07:55	0	4.456	5.6	4.4	-0.056
4/26/2015	11:07:55	0	4.385	5.6	4.4	0.015
4/26/2015	15:07:55	0	4.316	5.6	4.4	0.084
4/26/2015	19:07:55	0	4.365	5.6	4.4	0.035
4/26/2015	23:07:55	0	4.366	5.6	4.4	0.034
4/27/2015	3:07:55	0	4.346	5.6	4.4	0.054
4/27/2015	7:07:55	0	4.382	5.6	4.4	0.018
4/27/2015	11:07:55	0	4.372	5.6	4.4	0.028
4/27/2015	15:07:55	0	4.303	5.6	4.4	0.097
4/27/2015	19:07:55	0	4.421	5.6	4.4	-0.021
4/27/2015	23:07:55	0	4.354	5.6	4.4	0.046
4/28/2015	3:07:55	0	4.362	5.6	4.4	0.038
4/28/2015	7:07:55	0	4.487	5.6	4.4	-0.087
4/28/2015	11:07:55	0	4.357	5.6	4.4	0.043
4/28/2015	15:07:55	0	4.205	5.7	4.4	0.195
4/28/2015	19:07:55	0	4.291	5.7	4.4	0.109
4/28/2015	23:07:55	0	4.232	5.7	4.4	0.168
4/29/2015	3:07:55	0	4.281	5.7	4.4	0.119
4/29/2015	7:07:55	0	4.399	5.7	4.4	0.001
4/29/2015	11:07:55	0	4.272	5.7	4.4	0.128
4/29/2015	15:07:55	0	4.234	5.7	4.4	0.166
4/29/2015	19:07:55	0	4.32	5.8	4.4	0.08
4/29/2015	23:07:55	0	4.398	5.8	4.4	0.002
4/30/2015	3:07:55	0	4.275	5.8	4.4	0.125
4/30/2015	7:07:55	0	4.416	5.8	4.4	-0.016
4/30/2015	11:07:55	0	4.3	5.9	4.4	0.1
4/30/2015	15:07:55	0	4.269	5.9	4.4	0.131
4/30/2015	19:07:55	0	4.328	5.9	4.4	0.072
4/30/2015	23:07:55	0	4.351	6	4.4	0.049
5/1/2015	3:07:55	0	4.338	6	4.4	0.062
5/1/2015	7:07:55	0	4.355	6	4.4	0.045
5/1/2015	11:07:55	0	4.256	6.1	4.4	0.144
5/1/2015	15:07:55	0	4.228	6.1	4.4	0.172
5/1/2015	19:07:55	0	4.276	6.1	4.4	0.124
5/1/2015	23:07:55	0	4.312	6.2	4.4	0.088
5/2/2015	3:07:55	0	4.28	6.2	4.4	0.12
5/2/2015	7:07:55	0	4.345	6.2	4.4	0.055
5/2/2015	11:07:55	0	4.235	6.3	4.4	0.165
5/2/2015	15:07:55	0	4.154	6.3	4.4	0.246
5/2/2015	19:07:55	0	4.254	6.3	4.4	0.146
5/2/2015	23:07:55	0	4.334	6.4	4.4	0.066
5/3/2015	3:07:55	0	4.286	6.4	4.4	0.114
5/3/2015	7:07:55	0	4.378	6.4	4.4	0.022
5/3/2015	11:07:55	0	4.245	6.4	4.4	0.155
5/3/2015	15:07:55	0	4.155	6.5	4.4	0.245

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5/3/2015	19:07:55	0	4.222	6.5	4.4	0.178
5/3/2015	23:07:55	0	4.295	6.5	4.4	0.105
5/4/2015	3:07:55	0	4.27	6.5	4.4	0.13
5/4/2015	7:07:55	0	4.316	6.6	4.4	0.084
5/4/2015	11:07:55	0	4.151	6.6	4.4	0.249
5/4/2015	15:07:55	0	4.035	6.6	4.4	0.365
5/4/2015	19:07:55	0	4.081	6.7	4.4	0.319
5/4/2015	23:07:55	0	4.234	6.7	4.4	0.166
5/5/2015	3:07:55	0	4.212	6.7	4.4	0.188
5/5/2015	7:07:55	0	4.276	6.8	4.4	0.124
5/5/2015	11:07:55	0	4.204	6.8	4.4	0.196
5/5/2015	15:07:55	0	4.06	6.9	4.4	0.34
5/5/2015	19:07:55	0	4.11	6.9	4.4	0.29
5/5/2015	23:07:55	0	4.195	6.9	4.4	0.205
5/6/2015	3:07:55	0	4.198	7	4.4	0.202
5/6/2015	7:07:55	0	4.266	7	4.4	0.134
5/6/2015	11:07:55	0	4.16	7.1	4.4	0.24
5/6/2015	15:07:55	0	3.969	7.1	4.4	0.431
5/6/2015	19:07:55	0	4.038	7.2	4.4	0.362
5/6/2015	23:07:55	0	4.162	7.2	4.4	0.238
5/7/2015	3:07:55	0	4.134	7.3	4.4	0.266
5/7/2015	7:07:55	0	4.21	7.3	4.4	0.19
5/7/2015	11:07:55	0	4.076	7.4	4.4	0.324
5/7/2015	15:07:55	0	3.951	7.4	4.4	0.449
5/7/2015	19:07:55	0	3.999	7.5	4.4	0.401
5/7/2015	23:07:55	0	4.142	7.5	4.4	0.258
5/8/2015	3:07:55	0	4.108	7.5	4.4	0.292
5/8/2015	7:07:55	0	4.206	7.6	4.4	0.194
5/8/2015	11:07:55	0	4.063	7.6	4.4	0.337
5/8/2015	15:07:55	0	3.97	7.7	4.4	0.43
5/8/2015	19:07:55	0	4.07	7.7	4.4	0.33
5/8/2015	23:07:55	0	4.221	7.7	4.4	0.179
5/9/2015	3:07:55	0	4.142	7.8	4.4	0.258
5/9/2015	7:07:55	0	4.193	7.8	4.4	0.207
5/9/2015	11:07:55	0	4.056	7.8	4.4	0.344
5/9/2015	15:07:55	0	3.954	7.9	4.4	0.446
5/9/2015	19:07:55	0	4.015	7.9	4.4	0.385
5/9/2015	23:07:55	0	4.082	8	4.4	0.318
5/10/2015	3:07:55	0	4.016	8	4.4	0.384
5/10/2015	7:07:55	0	4.103	8.1	4.4	0.297
5/10/2015	11:07:55	0	3.998	8.1	4.4	0.402
5/10/2015	15:07:55	0	3.91	8.2	4.4	0.49
5/10/2015	19:07:55	0	3.997	8.2	4.4	0.403
5/10/2015	23:07:55	0	4.104	8.3	4.4	0.296
5/11/2015	3:07:55	0	3.994	8.3	4.4	0.406
5/11/2015	7:07:55	0	4.078	8.4	4.4	0.322
5/11/2015	11:07:55	0	3.997	8.4	4.4	0.403
5/11/2015	15:07:55	0	3.892	8.5	4.4	0.508
5/11/2015	19:07:55	0	3.925	8.6	4.4	0.475
5/11/2015	23:07:55	0	3.98	8.6	4.4	0.42
5/12/2015	3:07:55	0	3.918	8.6	4.4	0.482
5/12/2015	7:07:55	0	3.947	8.7	4.4	0.453
5/12/2015	11:07:55	0	3.96	8.8	4.4	0.44
5/12/2015	15:07:55	0	3.87	8.9	4.4	0.53
5/12/2015	19:07:55	0	4.099	8.9	4.4	0.301
5/12/2015	23:07:55	0	4.166	8.9	4.4	0.234
5/13/2015	3:07:55	0	4.031	9	4.4	0.369
5/13/2015	7:07:55	0	4.188	9.1	4.4	0.212
5/13/2015	11:07:55	0	4.205	9.1	4.4	0.195
5/13/2015	15:07:55	0	4.117	9.2	4.4	0.283
5/13/2015	19:07:55	0	4.102	9.2	4.4	0.298
5/13/2015	23:07:55	0	4.196	9.3	4.4	0.204
5/14/2015	3:07:55	0	4.138	9.3	4.4	0.262
5/14/2015	7:07:55	0	4.179	9.3	4.4	0.221
5/14/2015	11:07:55	0	4.019	9.4	4.4	0.381
5/14/2015	15:07:55	0	3.878	9.4	4.4	0.522
5/14/2015	19:07:55	0	3.883	9.4	4.4	0.517
5/14/2015	23:07:55	0	4.015	9.4	4.4	0.385
5/15/2015	3:07:55	0	3.995	9.4	4.4	0.405
5/15/2015	7:07:55	0	4.106	9.4	4.4	0.294
5/15/2015	11:07:55	0	3.968	9.4	4.4	0.432
5/15/2015	15:07:55	0	3.79	9.4	4.4	0.61
5/15/2015	19:07:55	0	3.875	9.4	4.4	0.525
5/15/2015	23:07:55	0	3.975	9.4	4.4	0.425
5/16/2015	3:07:55	0	3.945	9.4	4.4	0.455
5/16/2015	7:07:55	0	4.022	9.4	4.4	0.378
5/16/2015	11:07:55	0	3.987	9.4	4.4	0.413
5/16/2015	15:07:55	0	3.869	9.4	4.4	0.531
5/16/2015	19:07:55	0	3.977	9.4	4.4	0.423
5/16/2015	23:07:55	0	4.061	9.4	4.4	0.339
5/17/2015	3:07:55	0	3.96	9.4	4.4	0.44
5/17/2015	7:07:55	0	4.115	9.4	4.4	0.285
5/17/2015	11:07:55	0	3.976	9.4	4.4	0.424
5/17/2015	15:07:55	0	3.848	9.4	4.4	0.552
5/17/2015	19:07:55	0	3.894	9.5	4.4	0.506
5/17/2015	23:07:55	0	3.982	9.5	4.4	0.418
5/18/2015	3:07:55	0	3.963	9.5	4.4	0.437

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5/18/2015	7:07:55	0	4.086	9.5	4.4	0.314
5/18/2015	11:07:55	0	3.966	9.5	4.4	0.434
5/18/2015	15:07:55	0	3.791	9.6	4.4	0.609
5/18/2015	19:07:55	0	3.864	9.6	4.4	0.536
5/18/2015	23:07:55	0	3.849	9.6	4.4	0.551
5/19/2015	3:07:55	0	3.826	9.7	4.4	0.574
5/19/2015	7:07:55	0	3.892	9.7	4.4	0.508
5/19/2015	11:07:55	0	3.914	9.7	4.4	0.486
5/19/2015	15:07:55	0	3.79	9.8	4.4	0.61
5/19/2015	19:07:55	0	3.845	9.8	4.4	0.555
5/19/2015	23:07:55	0	4.207	9.8	4.4	0.193
5/20/2015	3:07:55	0	3.942	9.8	4.4	0.458
5/20/2015	7:07:55	0	4.019	9.9	4.4	0.381
5/20/2015	11:07:55	0	4.087	9.9	4.4	0.313
5/20/2015	15:07:55	0	3.925	10	4.4	0.475
5/20/2015	19:07:55	0	4.008	10	4.4	0.392
5/20/2015	23:07:55	0	4.018	10	4.4	0.382
5/21/2015	3:07:55	0	3.944	10	4.4	0.456
5/21/2015	7:07:55	0	4.062	10.1	4.4	0.338
5/21/2015	11:07:55	0	3.901	10.1	4.4	0.499
5/21/2015	15:07:55	0	3.782	10.1	4.4	0.618
5/21/2015	19:07:55	0	3.844	10.1	4.4	0.556
5/21/2015	23:07:55	0	3.891	10.1	4.4	0.509
5/22/2015	3:07:55	0	3.932	10.1	4.4	0.468
5/22/2015	7:07:55	0	3.994	10.1	4.4	0.406
5/22/2015	11:07:55	0	3.908	10.1	4.4	0.492
5/22/2015	15:07:55	0	3.949	10.1	4.4	0.451
5/22/2015	19:07:55	0	3.927	10.1	4.4	0.473
5/22/2015	23:07:55	0	3.976	10.1	4.4	0.424
5/23/2015	3:07:55	0	4.007	10.1	4.4	0.393
5/23/2015	7:07:55	0	4.096	10.1	4.4	0.304
5/23/2015	11:07:55	0	3.922	10.1	4.4	0.478
5/23/2015	15:07:55	0	3.713	10.1	4.4	0.687
5/23/2015	19:07:55	0	3.667	10.1	4.4	0.733
5/23/2015	23:07:55	0	3.782	10.1	4.4	0.618
5/24/2015	3:07:55	0	3.816	10.1	4.4	0.584
5/24/2015	7:07:55	0	3.901	10.1	4.4	0.499
5/24/2015	11:07:55	0	3.731	10.1	4.4	0.669
5/24/2015	15:07:55	0	3.606	10.1	4.4	0.794
5/24/2015	19:07:55	0	3.626	10	4.4	0.774
5/24/2015	23:07:55	0	3.775	10	4.4	0.625
5/25/2015	3:07:55	0	3.75	10	4.4	0.65
5/25/2015	7:07:55	0	3.837	10	4.4	0.563
5/25/2015	11:07:55	0	3.737	10	4.4	0.663
5/25/2015	15:07:55	0	3.513	10	4.4	0.887
5/25/2015	19:07:55	0	3.59	10	4.4	0.81
5/25/2015	23:07:55	0	3.711	10	4.4	0.689
5/26/2015	3:07:55	0	3.686	10	4.4	0.714
5/26/2015	7:07:55	0	3.775	10	4.4	0.625
5/26/2015	11:07:55	0	3.691	10	4.4	0.709
5/26/2015	15:07:55	0	3.552	10	4.4	0.848
5/26/2015	19:07:55	0	3.562	10	4.4	0.838
5/26/2015	23:07:55	0	3.666	10	4.4	0.734
5/27/2015	3:07:55	0	3.63	10	4.4	0.77
5/27/2015	7:07:55	0	3.717	10	4.4	0.683
5/27/2015	11:07:55	0	3.619	10.1	4.4	0.781
5/27/2015	15:07:55	0	3.457	10.1	4.4	0.943
5/27/2015	19:07:55	0	4.063	10.1	4.4	0.337
5/27/2015	23:07:55	0	4.027	10.1	4.4	0.373
5/28/2015	3:07:55	0	4.038	10.2	4.4	0.362
5/28/2015	7:07:55	0	4.115	10.2	4.4	0.285
5/28/2015	11:07:55	0	3.982	10.2	4.4	0.418
5/28/2015	15:07:55	0	3.977	10.3	4.4	0.423
5/28/2015	19:07:55	0	4.215	10.3	4.4	0.185
5/28/2015	23:07:55	0	4.151	10.3	4.4	0.249
5/29/2015	3:07:55	0	4.075	10.4	4.4	0.325
5/29/2015	7:07:55	0	4.155	10.4	4.4	0.245
5/29/2015	11:07:55	0	3.951	10.5	4.4	0.449
5/29/2015	15:07:55	0	3.9	10.5	4.4	0.5
5/29/2015	19:07:55	0	3.876	10.6	4.4	0.524
5/29/2015	23:07:55	0	3.997	10.6	4.4	0.403
5/30/2015	3:07:55	0	3.93	10.6	4.4	0.47
5/30/2015	7:07:55	0	4.014	10.7	4.4	0.386
5/30/2015	11:07:55	0	3.872	10.7	4.4	0.528
5/30/2015	15:07:55	0	3.76	10.8	4.4	0.64
5/30/2015	19:07:55	0	3.779	10.8	4.4	0.621
5/30/2015	23:07:55	0	3.915	10.8	4.4	0.485
5/31/2015	3:07:55	0	3.933	10.9	4.4	0.467
5/31/2015	7:07:55	0	4.051	10.9	4.4	0.349
5/31/2015	11:07:55	0	4.102	10.9	4.4	0.298
5/31/2015	15:07:55	0	4.107	11	4.4	0.293
5/31/2015	19:07:55	0	4.086	11	4.4	0.314
5/31/2015	23:07:55	0	4.05	11	4.4	0.35
6/1/2015	3:07:55	0	3.992	11.1	4.4	0.408
6/1/2015	7:07:55	0	4.126	11.1	4.4	0.274
6/1/2015	11:07:55	0	4.131	11.1	4.4	0.269
6/1/2015	15:07:55	0	4.097	11.2	4.4	0.303

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6/1/2015	19:07:55	0	4.199	11.1	4.4	0.201
6/1/2015	23:07:55	0	4.348	11.1	4.4	0.052
6/2/2015	3:07:55	0	4.306	11.2	4.4	0.094
6/2/2015	7:07:55	0	4.383	11.2	4.4	0.017
6/2/2015	11:07:55	0	4.376	11.2	4.4	0.024
6/2/2015	15:07:55	0	4.242	11.3	4.4	0.158
6/2/2015	19:07:55	0	4.262	11.3	4.4	0.138
6/2/2015	23:07:55	0	4.271	11.3	4.4	0.129
6/3/2015	3:07:55	0	4.209	11.2	4.4	0.191
6/3/2015	7:07:55	0	4.248	11.2	4.4	0.152
6/3/2015	11:07:55	0	4.108	11.2	4.4	0.292
6/3/2015	15:07:55	0	4.023	11.2	4.4	0.377
6/3/2015	19:07:55	0	4.059	11.2	4.4	0.341
6/3/2015	23:07:55	0	4.152	11.2	4.4	0.248
6/4/2015	3:07:55	0	4.132	11.2	4.4	0.268
6/4/2015	7:07:55	0	4.145	11.1	4.4	0.255
6/4/2015	11:07:55	0	4.07	11.1	4.4	0.33
6/4/2015	15:07:55	0	3.948	11.1	4.4	0.452
6/4/2015	19:07:55	0	3.956	11.1	4.4	0.444
6/4/2015	23:07:55	0	4.014	11.1	4.4	0.386
6/5/2015	3:07:55	0	3.992	11.1	4.4	0.408
6/5/2015	7:07:55	0	4.03	11.1	4.4	0.37
6/5/2015	11:07:55	0	3.955	11.3	4.4	0.445
6/5/2015	15:07:55	0	3.827	11.1	4.4	0.573
6/5/2015	19:07:55	0	3.873	11.1	4.4	0.527
6/5/2015	23:07:55	0	3.959	11.1	4.4	0.441
6/6/2015	3:07:55	0	3.947	11.1	4.4	0.453
6/6/2015	7:07:55	0	4.145	11.1	4.4	0.255
6/6/2015	11:07:55	0	4.221	11.2	4.4	0.179
6/6/2015	15:07:55	0	4.04	11.2	4.4	0.36
6/6/2015	19:07:55	0	4.039	11.2	4.4	0.361
6/6/2015	23:07:55	0	4.087	11.2	4.4	0.313
6/7/2015	3:07:55	0	4.091	11.2	4.4	0.309
6/7/2015	7:07:55	0	4.152	11.2	4.4	0.248
6/7/2015	11:07:55	0	3.95	11.3	4.4	0.45
6/7/2015	15:07:55	0	3.807	11.3	4.4	0.593
6/7/2015	19:07:55	0	3.799	11.3	4.4	0.601
6/7/2015	23:07:55	0	3.931	11.3	4.4	0.469
6/8/2015	3:07:55	0	3.811	11.3	4.4	0.589
6/8/2015	7:07:55	0	3.889	11.3	4.4	0.511
6/8/2015	11:07:55	0	3.901	11.3	4.4	0.499
6/8/2015	15:07:55	0	3.825	11.4	4.4	0.575
6/8/2015	19:07:55	0	3.895	11.4	4.4	0.505
6/8/2015	23:07:55	0	4.039	11.3	4.4	0.361
6/9/2015	3:07:55	0	4.054	11.4	4.4	0.346
6/9/2015	7:07:55	0	4.107	11.4	4.4	0.293
6/9/2015	11:07:55	0	4.11	11.4	4.4	0.29
6/9/2015	15:07:55	0	4.068	11.4	4.4	0.332
6/9/2015	19:07:55	0	4.25	11.4	4.4	0.15
6/9/2015	23:07:55	0	4.288	11.4	4.4	0.112
6/10/2015	3:07:55	0	4.221	11.4	4.4	0.179
6/10/2015	7:07:55	0	4.296	11.4	4.4	0.104
6/10/2015	11:07:55	0	4.138	11.5	4.4	0.262
6/10/2015	15:07:55	0	4.046	11.5	4.4	0.354
6/10/2015	19:07:55	0	3.992	11.5	4.4	0.408
6/10/2015	23:07:55	0	4.092	11.5	4.4	0.308
6/11/2015	3:07:55	0	4.057	11.6	4.4	0.343
6/11/2015	7:07:55	0	4.157	11.6	4.4	0.243
6/11/2015	11:07:55	0	4.12	11.6	4.4	0.28
6/11/2015	15:07:55	0	4.034	11.7	4.4	0.366
6/11/2015	19:07:55	0	4.047	11.7	4.4	0.353
6/11/2015	23:07:55	0	4.089	11.7	4.4	0.311
6/12/2015	3:07:55	0	4.024	11.7	4.4	0.376
6/12/2015	7:07:55	0	4.137	11.7	4.4	0.263
6/12/2015	11:07:55	0	3.927	11.8	4.4	0.473
6/12/2015	15:07:55	0	3.8	11.8	4.4	0.6
6/12/2015	19:07:55	0	3.805	11.9	4.4	0.595
6/12/2015	23:07:55	0	4.059	11.8	4.4	0.341
6/13/2015	3:07:55	0	4.039	11.9	4.4	0.361
6/13/2015	7:07:55	0	4.355	11.9	4.4	0.045
6/13/2015	11:07:55	0	4.213	12	4.4	0.187
6/13/2015	15:07:55	0	4.078	12	4.4	0.322
6/13/2015	19:07:55	0	4.01	12	4.4	0.39
6/13/2015	23:07:55	0	4.132	12	4.4	0.268
6/14/2015	3:07:55	0	4.084	12.1	4.4	0.316
6/14/2015	7:07:55	0	4.166	12.1	4.4	0.234
6/14/2015	11:07:55	0	4.041	12.2	4.4	0.359
6/14/2015	15:07:55	0	3.911	12.2	4.4	0.489
6/14/2015	19:07:55	0	3.93	12.2	4.4	0.47
6/14/2015	23:07:55	0	4.024	12.2	4.4	0.376
6/15/2015	3:07:55	0	3.934	12.2	4.4	0.466
6/15/2015	7:07:55	0	4.252	12.2	4.4	0.148
6/15/2015	11:07:55	0	4.638	12.2	4.4	-0.238
6/15/2015	15:07:55	0	4.57	12.2	4.4	-0.17
6/15/2015	19:07:55	0	4.609	12.3	4.4	-0.209
6/15/2015	23:07:55	0	4.58	12.3	4.4	-0.18
6/16/2015	3:07:55	0	4.479	12.3	4.4	-0.079

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6/16/2015	7:07:55	0	4.482	12.4	4.4	-0.082
6/16/2015	11:07:55	0	4.365	12.4	4.4	0.035
6/16/2015	15:07:55	0	4.328	12.4	4.4	0.072
6/16/2015	19:07:55	0	4.507	12.5	4.4	-0.107
6/16/2015	23:07:55	0	4.455	12.5	4.4	-0.055
6/17/2015	3:07:55	0	4.395	12.5	4.4	0.005
6/17/2015	7:07:55	0	4.396	12.5	4.4	0.004
6/17/2015	11:07:55	0	4.26	12.5	4.4	0.14
6/17/2015	15:07:55	0	4.091	12.5	4.4	0.309
6/17/2015	19:07:55	0	4.061	12.5	4.4	0.339
6/17/2015	23:07:55	0	4.172	12.6	4.4	0.228
6/18/2015	3:07:55	0	4.073	12.6	4.4	0.327
6/18/2015	7:07:55	0	4.154	12.6	4.4	0.246
6/18/2015	11:07:55	0	4.052	12.6	4.4	0.348
6/18/2015	15:07:55	0	3.951	12.6	4.4	0.449
6/18/2015	19:07:55	0	3.997	12.6	4.4	0.403
6/18/2015	23:07:55	0	4.074	12.6	4.4	0.326
6/19/2015	3:07:55	0	4.032	12.6	4.4	0.368
6/19/2015	7:07:55	0	4.133	12.6	4.4	0.267
6/19/2015	11:07:55	0	4.168	12.7	4.4	0.232
6/19/2015	15:07:55	0	4.072	12.7	4.4	0.328
6/19/2015	19:07:55	0	4.063	12.7	4.4	0.337
6/19/2015	23:07:55	0	4.156	12.7	4.4	0.244
6/20/2015	3:07:55	0	4.125	12.7	4.4	0.275
6/20/2015	7:07:55	0	4.138	12.7	4.4	0.262
6/20/2015	11:07:55	0	3.979	12.7	4.4	0.421
6/20/2015	15:07:55	0	3.922	12.7	4.4	0.478
6/20/2015	19:07:55	0	3.908	12.7	4.4	0.492
6/20/2015	23:07:55	0	3.97	12.7	4.4	0.43
6/21/2015	3:07:55	0	3.946	12.7	4.4	0.454
6/21/2015	7:07:55	0	4.225	12.6	4.4	0.175
6/21/2015	11:07:55	0	4.661	12.6	4.4	-0.261
6/21/2015	15:07:55	0	4.668	12.7	4.4	-0.268
6/21/2015	19:07:55	0	4.717	12.7	4.4	-0.317
6/21/2015	23:07:55	0	4.794	12.7	4.4	-0.394
6/22/2015	3:07:55	0	4.698	12.7	4.4	-0.298
6/22/2015	7:07:55	0	4.81	12.7	4.4	-0.41
6/22/2015	11:07:55	0	4.665	12.7	4.4	-0.265
6/22/2015	15:07:55	0	4.627	12.7	4.4	-0.227
6/22/2015	19:07:55	0	4.495	12.7	4.4	-0.095
6/22/2015	23:07:55	0	4.566	12.7	4.4	-0.166
6/23/2015	3:07:55	0	4.481	12.7	4.4	-0.081
6/23/2015	7:07:55	0	4.396	12.8	4.4	0.004
6/23/2015	11:07:55	0	4.404	12.8	4.4	-0.004
6/23/2015	15:07:55	0	4.429	12.8	4.4	-0.029
6/23/2015	19:07:55	0	4.423	12.8	4.4	-0.023
6/23/2015	23:07:55	0	4.527	12.9	4.4	-0.127
6/24/2015	3:07:55	0	4.373	12.9	4.4	0.027
6/24/2015	7:07:55	0	4.419	12.9	4.4	-0.019
6/24/2015	11:07:55	0	4.274	12.9	4.4	0.126
6/24/2015	15:07:55	0	4.163	12.9	4.4	0.237
6/24/2015	19:07:55	0	4.181	13	4.4	0.219
6/24/2015	23:07:55	0	4.217	13	4.4	0.183
6/25/2015	3:07:55	0	4.163	13	4.4	0.237
6/25/2015	7:07:55	0	4.229	13	4.4	0.171
6/25/2015	11:07:55	0	4.114	13	4.4	0.286
6/25/2015	15:07:55	0	3.982	13.1	4.4	0.418
6/25/2015	19:07:55	0	4.028	13.1	4.4	0.372
6/25/2015	23:07:55	0	4.093	13.1	4.4	0.307
6/26/2015	3:07:55	0	4.075	13.1	4.4	0.325
6/26/2015	7:07:55	0	4.15	13.1	4.4	0.25
6/26/2015	11:07:55	0	4.097	13.1	4.4	0.303
6/26/2015	15:07:55	0	4.009	13.1	4.4	0.391
6/26/2015	19:07:55	0	4.07	13.1	4.4	0.33
6/26/2015	23:07:55	0	4.138	13.1	4.4	0.262
6/27/2015	3:07:55	0	4.085	13.1	4.4	0.315
6/27/2015	7:07:55	0	4.173	13.2	4.4	0.227
6/27/2015	11:07:55	0	4.002	13.2	4.4	0.398
6/27/2015	15:07:55	0	4.015	13.2	4.4	0.385
6/27/2015	19:07:55	0	3.954	13.2	4.4	0.446
6/27/2015	23:07:55	0	3.97	13.1	4.4	0.43
6/28/2015	3:07:55	0	3.956	13.1	4.4	0.444
6/28/2015	7:07:55	0	4.148	13.1	4.4	0.252
6/28/2015	11:07:55	0	4.201	13.2	4.4	0.199
6/28/2015	15:07:55	0	4.277	13.2	4.4	0.123
6/28/2015	19:07:55	0	4.342	13.2	4.4	0.058
6/28/2015	23:07:55	0	4.245	13.1	4.4	0.155
6/29/2015	3:07:55	0	4.262	13.1	4.4	0.138
6/29/2015	7:07:55	0	4.365	13.1	4.4	0.035
6/29/2015	11:07:55	0	4.317	13.1	4.4	0.083
6/29/2015	15:07:55	0	4.238	13.1	4.4	0.162
6/29/2015	19:07:55	0	4.279	13.1	4.4	0.121
6/29/2015	23:07:55	0	4.317	13.1	4.4	0.083
6/30/2015	3:07:55	0	4.255	13.1	4.4	0.145
6/30/2015	7:07:55	0	4.283	13.1	4.4	0.117
6/30/2015	11:07:55	0	4.172	13.1	4.4	0.228
6/30/2015	15:07:55	0	4.128	13	4.4	0.272

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6/30/2015	19:07:55	0	4.155	13	4.4	0.245
6/30/2015	23:07:55	0	4.188	13	4.4	0.212
7/1/2015	3:07:55	0	4.094	13	4.4	0.306
7/1/2015	7:07:55	0	4.665	12.8	4.4	-0.265
7/1/2015	11:07:55	0	4.836	12.9	4.4	-0.436
7/1/2015	15:07:55	0	4.75	12.9	4.4	-0.35
7/1/2015	19:07:55	0	4.983	12.9	4.4	-0.583
7/1/2015	23:07:55	0	4.964	12.9	4.4	-0.564
7/2/2015	3:07:55	0	4.842	12.9	4.4	-0.442
7/2/2015	7:07:55	0	4.909	12.9	4.4	-0.509
7/2/2015	11:07:55	0	4.865	12.9	4.4	-0.465
7/2/2015	15:07:55	0	4.751	12.9	4.4	-0.351
7/2/2015	19:07:55	0	4.727	12.9	4.4	-0.327
7/2/2015	23:07:55	0	4.791	12.9	4.4	-0.391
7/3/2015	3:07:55	0	4.799	12.9	4.4	-0.399
7/3/2015	7:07:55	0	4.862	12.9	4.4	-0.462
7/3/2015	11:07:55	0	4.707	12.9	4.4	-0.307
7/3/2015	15:07:55	0	4.618	12.9	4.4	-0.218
7/3/2015	19:07:55	0	4.606	12.9	4.4	-0.206
7/3/2015	23:07:55	0	4.702	12.9	4.4	-0.302
7/4/2015	3:07:55	0	4.629	12.9	4.4	-0.229
7/4/2015	7:07:55	0	4.641	12.9	4.4	-0.241
7/4/2015	11:07:55	0	4.659	12.9	4.4	-0.259
7/4/2015	15:07:55	0	4.612	12.9	4.4	-0.212
7/4/2015	19:07:55	0	4.558	12.9	4.4	-0.158
7/4/2015	23:07:55	0	4.699	12.9	4.4	-0.299
7/5/2015	3:07:55	0	4.63	12.9	4.4	-0.23
7/5/2015	7:07:55	0	4.667	12.9	4.4	-0.267
7/5/2015	11:07:55	0	4.596	12.9	4.4	-0.196
7/5/2015	15:07:55	0	4.488	12.9	4.4	-0.088
7/5/2015	19:07:55	0	4.452	12.9	4.4	-0.052
7/5/2015	23:07:55	0	4.564	12.9	4.4	-0.164
7/6/2015	3:07:55	0	4.463	12.9	4.4	-0.063
7/6/2015	7:07:55	0	4.483	12.9	4.4	-0.083
7/6/2015	11:07:55	0	4.406	12.9	4.4	-0.006
7/6/2015	15:07:55	0	4.284	12.9	4.4	0.116
7/6/2015	19:07:55	0	4.247	13	4.4	0.153
7/6/2015	23:07:55	0	4.298	12.9	4.4	0.102
7/7/2015	3:07:55	0	4.269	13	4.4	0.131
7/7/2015	7:07:55	0	4.277	13	4.4	0.123
7/7/2015	11:07:55	0	4.202	13	4.4	0.198
7/7/2015	15:07:55	0	4.165	13	4.4	0.235
7/7/2015	19:07:55	0	4.239	13	4.4	0.161
7/7/2015	23:07:55	0	4.292	13	4.4	0.108
7/8/2015	3:07:55	0	4.2	13	4.4	0.2
7/8/2015	7:07:55	0	4.327	13	4.4	0.073
7/8/2015	11:07:55	0	4.326	13	4.4	0.074
7/8/2015	15:07:55	0	4.221	13.1	4.4	0.179
7/8/2015	19:07:55	0	4.24	13.1	4.4	0.16
7/8/2015	23:07:55	0	4.252	13.1	4.4	0.148
7/9/2015	3:07:55	0	4.254	13.1	4.4	0.146
7/9/2015	7:07:55	0	4.249	13.1	4.4	0.151
7/9/2015	11:07:55	0	4.158	13.2	4.4	0.242
7/9/2015	15:07:55	0	4.058	13.2	4.4	0.342
7/9/2015	19:07:55	0	4.074	13.2	4.4	0.326
7/9/2015	23:07:55	0	4.216	13.2	4.4	0.184
7/10/2015	3:07:55	0	4.631	13.1	4.4	-0.231
7/10/2015	7:07:55	0	4.824	13.2	4.4	-0.424
7/10/2015	11:07:55	0	4.675	13.2	4.4	-0.275
7/10/2015	15:07:55	0	4.576	13.2	4.4	-0.176
7/10/2015	19:07:55	0	4.601	13.2	4.4	-0.201
7/10/2015	23:07:55	0	4.659	13.2	4.4	-0.259
7/11/2015	3:07:55	0	4.63	13.3	4.4	-0.23
7/11/2015	7:07:55	0	4.694	13.3	4.4	-0.294
7/11/2015	11:07:55	0	4.538	13.3	4.4	-0.138
7/11/2015	15:07:55	0	4.448	13.3	4.4	-0.048
7/11/2015	19:07:55	0	4.419	13.3	4.4	-0.019
7/11/2015	23:07:55	0	4.522	13.4	4.4	-0.122
7/12/2015	3:07:55	0	4.406	13.4	4.4	-0.006
7/12/2015	7:07:55	0	4.454	13.4	4.4	-0.054
7/12/2015	11:07:55	0	4.353	13.4	4.4	0.047
7/12/2015	15:07:55	0	4.216	13.4	4.4	0.184
7/12/2015	19:07:55	0	4.21	13.4	4.4	0.19
7/12/2015	23:07:55	0	4.3	13.5	4.4	0.1
7/13/2015	3:07:55	0	4.221	13.5	4.4	0.179
7/13/2015	7:07:55	0	4.285	13.5	4.4	0.115
7/13/2015	11:07:55	0	4.218	13.5	4.4	0.182
7/13/2015	15:07:55	0	4.075	13.5	4.4	0.325
7/13/2015	19:07:55	0	4.189	13.5	4.4	0.211
7/13/2015	23:07:55	0	4.26	13.5	4.4	0.14
7/14/2015	3:07:55	0	4.191	13.6	4.4	0.209
7/14/2015	7:07:55	0	4.204	13.6	4.4	0.196
7/14/2015	11:07:55	0	4.137	13.6	4.4	0.263
7/14/2015	15:07:55	0	4.101	13.6	4.4	0.299
7/14/2015	19:07:55	0	4.109	13.6	4.4	0.291
7/14/2015	23:07:55	0	4.23	13.6	4.4	0.17
7/15/2015	3:07:55	0	4.175	13.7	4.4	0.225

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7/15/2015	7:07:55	0	4.3	13.7	4.4	0.1
7/15/2015	11:07:55	0	4.273	13.7	4.4	0.127
7/15/2015	15:07:55	0	4.207	13.7	4.4	0.193
7/15/2015	19:07:55	0	4.246	13.7	4.4	0.154
7/15/2015	23:07:55	0	4.279	13.7	4.4	0.121
7/16/2015	3:07:55	0	4.227	13.7	4.4	0.173
7/16/2015	7:07:55	0	4.33	13.8	4.4	0.07
7/16/2015	11:07:55	0	4.142	13.8	4.4	0.258
7/16/2015	15:07:55	0	4.045	13.8	4.4	0.355
7/16/2015	19:07:55	0	4.062	13.8	4.4	0.338
7/16/2015	23:07:55	0	4.157	13.8	4.4	0.243
7/17/2015	3:07:55	0	4.149	13.8	4.4	0.251
7/17/2015	7:07:55	0	4.193	13.8	4.4	0.207
7/17/2015	11:07:55	0	4.078	13.9	4.4	0.322
7/17/2015	15:07:55	0	3.958	13.9	4.4	0.442
7/17/2015	19:07:55	0	3.993	13.9	4.4	0.407
7/17/2015	23:07:55	0	4.083	13.9	4.4	0.317
7/18/2015	3:07:55	0	4.02	13.9	4.4	0.38
7/18/2015	7:07:55	0	4.145	13.8	4.4	0.255
7/18/2015	11:07:55	0	4.124	13.8	4.4	0.276
7/18/2015	15:07:55	0	4.089	13.8	4.4	0.311
7/18/2015	19:07:55	0	4.108	13.8	4.4	0.292
7/18/2015	23:07:55	0	4.218	13.8	4.4	0.182
7/19/2015	3:07:55	0	4.193	13.8	4.4	0.207
7/19/2015	7:07:55	0	4.198	13.8	4.4	0.202
7/19/2015	11:07:55	0	4.129	13.8	4.4	0.271
7/19/2015	15:07:55	0	4.081	13.8	4.4	0.319
7/19/2015	19:07:55	0	4.186	13.8	4.4	0.214
7/19/2015	23:07:55	0	4.153	13.8	4.4	0.247
7/20/2015	3:07:55	0	4.172	13.9	4.4	0.228
7/20/2015	7:07:55	0	4.25	13.9	4.4	0.15
7/20/2015	11:07:55	0	4.186	13.9	4.4	0.214
7/20/2015	15:07:55	0	4.148	13.9	4.4	0.252
7/20/2015	19:07:55	0	4.083	13.9	4.4	0.317
7/20/2015	23:07:55	0	4.143	13.9	4.4	0.257
7/21/2015	3:07:55	0	4.118	13.9	4.4	0.282
7/21/2015	7:07:55	0	4.149	13.9	4.4	0.251
7/21/2015	11:07:55	0	4.097	14	4.4	0.303
7/21/2015	15:07:55	0	4	14	4.4	0.4
7/21/2015	19:07:55	0	4.069	14	4.4	0.331
7/21/2015	23:07:55	0	4.174	14	4.4	0.226
7/22/2015	3:07:55	0	4.123	14	4.4	0.277
7/22/2015	7:07:55	0	4.23	14	4.4	0.17
7/22/2015	11:07:55	0	4.114	14.1	4.4	0.286
7/22/2015	15:07:55	0	4.02	14.1	4.4	0.38
7/22/2015	19:07:55	0	4.071	14.1	4.4	0.329
7/22/2015	23:07:55	0	4.159	14.1	4.4	0.241
7/23/2015	3:07:55	0	4.06	14.1	4.4	0.34
7/23/2015	7:07:55	0	4.146	14.1	4.4	0.254
7/23/2015	11:07:55	0	4.059	14.2	4.4	0.341
7/23/2015	15:07:55	0	3.905	14.2	4.4	0.495
7/23/2015	19:07:55	0	3.943	14.2	4.4	0.457
7/23/2015	23:07:55	0	4.059	14.2	4.4	0.341
7/24/2015	3:07:55	0	4.044	14.2	4.4	0.356
7/24/2015	7:07:55	0	4.094	14.2	4.4	0.306
7/24/2015	11:07:55	0	4.012	14.2	4.4	0.388
7/24/2015	15:07:55	0	3.846	14.2	4.4	0.554
7/24/2015	19:07:55	0	4.025	14.2	4.4	0.375
7/24/2015	23:07:55	0	4.043	14.2	4.4	0.357
7/25/2015	3:07:55	0	4.038	14.2	4.4	0.362
7/25/2015	7:07:55	0	4.109	14.2	4.4	0.291
7/25/2015	11:07:55	0	4.003	14.2	4.4	0.397
7/25/2015	15:07:55	0	3.873	14.2	4.4	0.527
7/25/2015	19:07:55	0	3.856	14.2	4.4	0.544
7/25/2015	23:07:55	0	3.988	14.2	4.4	0.412
7/26/2015	3:07:55	0	3.935	14.2	4.4	0.465
7/26/2015	7:07:55	0	4.004	14.2	4.4	0.396
7/26/2015	11:07:55	0	3.987	14.2	4.4	0.413
7/26/2015	15:07:55	0	3.909	14.2	4.4	0.491
7/26/2015	19:07:55	0	3.975	14.2	4.4	0.425
7/26/2015	23:07:55	0	4.053	14.2	4.4	0.347
7/27/2015	3:07:55	0	4.026	14.2	4.4	0.374
7/27/2015	7:07:55	0	4.102	14.2	4.4	0.298
7/27/2015	11:07:55	0	4.029	14.2	4.4	0.371
7/27/2015	15:07:55	0	3.884	14.2	4.4	0.516
7/27/2015	19:07:55	0	3.904	14.2	4.4	0.496
7/27/2015	23:07:55	0	3.992	14.2	4.4	0.408
7/28/2015	3:07:55	0	3.975	14.2	4.4	0.425
7/28/2015	7:07:55	0	4.029	14.2	4.4	0.371
7/28/2015	11:07:55	0	3.916	14.3	4.4	0.484
7/28/2015	15:07:55	0	3.798	14.3	4.4	0.602
7/28/2015	19:07:55	0	3.811	14.3	4.4	0.589
7/28/2015	23:07:55	0	3.901	14.3	4.4	0.499
7/29/2015	3:07:55	0	3.866	14.3	4.4	0.534
7/29/2015	7:07:55	0	3.973	14.3	4.4	0.427
7/29/2015	11:07:55	0	3.874	14.3	4.4	0.526
7/29/2015	15:07:55	0	3.685	14.4	4.4	0.715

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7/29/2015	19:07:55	0	3.639	14.4	4.4	0.761
7/29/2015	23:07:55	0	3.76	14.4	4.4	0.64
7/30/2015	3:07:55	0	3.752	14.4	4.4	0.648
7/30/2015	7:07:55	0	3.794	14.4	4.4	0.606
7/30/2015	11:07:55	0	3.737	14.4	4.4	0.663
7/30/2015	15:07:55	0	3.644	14.5	4.4	0.756
7/30/2015	19:07:55	0	3.807	14.5	4.4	0.593
7/30/2015	23:07:55	0	3.841	14.5	4.4	0.559
7/31/2015	3:07:55	0	3.8	14.5	4.4	0.6
7/31/2015	7:07:55	0	3.892	14.5	4.4	0.508
7/31/2015	11:07:55	0	3.791	14.6	4.4	0.609
7/31/2015	15:07:55	0	3.619	14.6	4.4	0.781
7/31/2015	19:07:55	0	3.53	14.6	4.4	0.87
7/31/2015	23:07:55	0	3.651	14.6	4.4	0.749
8/1/2015	3:07:55	0	3.573	14.6	4.4	0.827
8/1/2015	7:07:55	0	3.726	14.6	4.4	0.674
8/1/2015	11:07:55	0	3.883	14.6	4.4	0.517
8/1/2015	15:07:55	0	3.827	14.6	4.4	0.573
8/1/2015	19:07:55	0	3.854	14.6	4.4	0.546
8/1/2015	23:07:55	0	3.919	14.6	4.4	0.481
8/2/2015	3:07:55	0	3.864	14.6	4.4	0.536
8/2/2015	7:07:55	0	3.937	14.6	4.4	0.463
8/2/2015	11:07:55	0	3.861	14.7	4.4	0.539
8/2/2015	15:07:55	0	3.673	14.7	4.4	0.727
8/2/2015	19:07:55	0	3.63	14.7	4.4	0.77
8/2/2015	23:07:55	0	3.622	14.7	4.4	0.778
8/3/2015	3:07:55	0	3.671	14.7	4.4	0.729
8/3/2015	7:07:55	0	3.789	14.7	4.4	0.611
8/3/2015	11:07:55	0	3.67	14.7	4.4	0.73
8/3/2015	15:07:55	0	3.498	14.7	4.4	0.902
8/3/2015	19:07:55	0	3.586	14.7	4.4	0.814
8/3/2015	23:07:55	0	3.661	14.7	4.4	0.739
8/4/2015	3:07:55	0	3.61	14.7	4.4	0.79
8/4/2015	7:07:55	0	3.888	14.6	4.4	0.512
8/4/2015	11:07:55	0	3.891	14.6	4.4	0.509
8/4/2015	15:07:55	0	3.89	14.6	4.4	0.51
8/4/2015	19:07:55	0	3.971	14.6	4.4	0.429
8/4/2015	23:07:55	0	3.958	14.6	4.4	0.442
8/5/2015	3:07:55	0	3.886	14.6	4.4	0.514
8/5/2015	7:07:55	0	3.956	14.7	4.4	0.444
8/5/2015	11:07:55	0	3.871	14.7	4.4	0.529
8/5/2015	15:07:55	0	3.776	14.7	4.4	0.624
8/5/2015	19:07:55	0	3.811	14.7	4.4	0.589
8/5/2015	23:07:55	0	3.894	14.7	4.4	0.506
8/6/2015	3:07:55	0	3.826	14.7	4.4	0.574
8/6/2015	7:07:55	0	3.861	14.7	4.4	0.539
8/6/2015	11:07:55	0	3.826	14.7	4.4	0.574
8/6/2015	15:07:55	0	3.644	14.7	4.4	0.756
8/6/2015	19:07:55	0	3.654	14.7	4.4	0.746
8/6/2015	23:07:55	0	3.76	14.7	4.4	0.64
8/7/2015	3:07:55	0	3.71	14.7	4.4	0.69
8/7/2015	7:07:55	0	3.824	14.7	4.4	0.576
8/7/2015	11:07:55	0	3.729	14.7	4.4	0.671
8/7/2015	15:07:55	0	3.552	14.7	4.4	0.848
8/7/2015	19:07:55	0	3.56	14.7	4.4	0.84
8/7/2015	23:07:55	0	3.627	14.7	4.4	0.773
8/8/2015	3:07:55	0	3.619	14.7	4.4	0.781
8/8/2015	7:07:55	0	3.717	14.7	4.4	0.683
8/8/2015	11:07:55	0	3.61	14.7	4.4	0.79
8/8/2015	15:07:55	0	3.488	14.7	4.4	0.912
8/8/2015	19:07:55	0	3.475	14.6	4.4	0.925
8/8/2015	23:07:55	0	3.553	14.6	4.4	0.847
8/9/2015	3:07:55	0	3.516	14.6	4.4	0.884
8/9/2015	7:07:55	0	3.595	14.6	4.4	0.805
8/9/2015	11:07:55	0	3.56	14.6	4.4	0.84
8/9/2015	15:07:55	0	3.378	14.6	4.4	1.022
8/9/2015	19:07:55	0	3.388	14.6	4.4	1.012
8/9/2015	23:07:55	0	3.443	14.6	4.4	0.957
8/10/2015	3:07:55	0	3.456	14.6	4.4	0.944
8/10/2015	7:07:55	0	3.529	14.6	4.4	0.871
8/10/2015	11:07:55	0	3.43	14.6	4.4	0.97
8/10/2015	15:07:55	0	3.286	14.6	4.4	1.114
8/10/2015	19:07:55	0	3.258	14.5	4.4	1.142
8/10/2015	23:07:55	0	3.35	14.5	4.4	1.05
8/11/2015	3:07:55	0	3.267	14.5	4.4	1.133
8/11/2015	7:07:55	0	3.308	14.5	4.4	1.092
8/11/2015	11:07:55	0	3.85	14.5	4.4	0.55
8/11/2015	15:07:55	0	3.944	14.5	4.4	0.456
8/11/2015	19:07:55	0	4.058	14.5	4.4	0.342
8/11/2015	23:07:55	0	4.087	14.5	4.4	0.313
8/12/2015	3:07:55	0	4.044	14.5	4.4	0.356
8/12/2015	7:07:55	0	4.107	14.5	4.4	0.293
8/12/2015	11:07:55	0	4.038	14.5	4.4	0.362
8/12/2015	15:07:55	0	3.917	14.5	4.4	0.483
8/12/2015	19:07:55	0	4.01	14.5	4.4	0.39
8/12/2015	23:07:55	0	4.05	14.5	4.4	0.35
8/13/2015	3:07:55	0	3.978	14.5	4.4	0.422

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8/13/2015	7:07:55	0	4.057	14.5	4.4	0.343
8/13/2015	11:07:55	0	4.004	14.5	4.4	0.396
8/13/2015	15:07:55	0	3.812	14.5	4.4	0.588
8/13/2015	19:07:55	0	3.849	14.5	4.4	0.551
8/13/2015	23:07:55	0	3.987	14.5	4.4	0.413
8/14/2015	3:07:55	0	3.882	14.6	4.4	0.518
8/14/2015	7:07:55	0	3.961	14.6	4.4	0.439
8/14/2015	11:07:55	0	3.855	14.6	4.4	0.545
8/14/2015	15:07:55	0	3.685	14.6	4.4	0.715
8/14/2015	19:07:55	0	3.708	14.6	4.4	0.692
8/14/2015	23:07:55	0	3.817	14.6	4.4	0.583
8/15/2015	3:07:55	0	3.753	14.6	4.4	0.647
8/15/2015	7:07:55	0	3.858	14.6	4.4	0.542
8/15/2015	11:07:55	0	3.773	14.6	4.4	0.627
8/15/2015	15:07:55	0	3.585	14.6	4.4	0.815
8/15/2015	19:07:55	0	3.738	14.6	4.4	0.662
8/15/2015	23:07:55	0	3.91	14.6	4.4	0.49
8/16/2015	3:07:55	0	3.853	14.6	4.4	0.547
8/16/2015	7:07:55	0	3.88	14.6	4.4	0.52
8/16/2015	11:07:55	0	3.855	14.6	4.4	0.545
8/16/2015	15:07:55	0	3.698	14.6	4.4	0.702
8/16/2015	19:07:55	0	3.694	14.7	4.4	0.706
8/16/2015	23:07:55	0	3.828	14.7	4.4	0.572
8/17/2015	3:07:55	0	3.767	14.7	4.4	0.633
8/17/2015	7:07:55	0	3.85	14.7	4.4	0.55
8/17/2015	11:07:55	0	3.745	14.7	4.4	0.655
8/17/2015	15:07:55	0	3.583	14.7	4.4	0.817
8/17/2015	19:07:55	0	3.563	14.8	4.4	0.837
8/17/2015	23:07:55	0	3.688	14.8	4.4	0.712
8/18/2015	3:07:55	0	3.674	14.8	4.4	0.726
8/18/2015	7:07:55	0	3.729	14.8	4.4	0.671
8/18/2015	11:07:55	0	3.639	14.8	4.4	0.761
8/18/2015	15:07:55	0	3.464	14.9	4.4	0.936
8/18/2015	19:07:55	0	3.508	14.9	4.4	0.892
8/18/2015	23:07:55	0	3.546	14.9	4.4	0.854
8/19/2015	3:07:55	0	3.562	14.9	4.4	0.838
8/19/2015	7:07:55	0	3.616	14.9	4.4	0.784
8/19/2015	11:07:55	0	3.551	14.9	4.4	0.849
8/19/2015	15:07:55	0	3.363	15	4.4	1.037
8/19/2015	19:07:55	0	3.346	15	4.4	1.054
8/19/2015	23:07:55	0	3.449	15	4.4	0.951
8/20/2015	3:07:55	0	3.386	15	4.4	1.014
8/20/2015	7:07:55	0	3.452	15	4.4	0.948
8/20/2015	11:07:55	0	3.415	15	4.4	0.985
8/20/2015	15:07:55	0	3.201	15.1	4.4	1.199
8/20/2015	19:07:55	0	3.212	15.1	4.4	1.188
8/20/2015	23:07:55	0	3.314	15.1	4.4	1.086
8/21/2015	3:07:55	0	3.265	15.1	4.4	1.135
8/21/2015	7:07:55	0	3.676	15.1	4.4	0.724
8/21/2015	11:07:55	0	3.772	15.1	4.4	0.628
8/21/2015	15:07:55	0	3.725	15.1	4.4	0.675
8/21/2015	19:07:55	0	3.75	15.2	4.4	0.65
8/21/2015	23:07:55	0	3.81	15.2	4.4	0.59
8/22/2015	3:07:55	0	3.771	15.2	4.4	0.629
8/22/2015	7:07:55	0	3.825	15.2	4.4	0.575
8/22/2015	11:07:55	0	3.718	15.2	4.4	0.682
8/22/2015	15:07:55	0	3.583	15.2	4.4	0.817
8/22/2015	19:07:55	0	3.606	15.3	4.4	0.794
8/22/2015	23:07:55	0	3.64	15.3	4.4	0.76
8/23/2015	3:07:55	0	3.628	15.3	4.4	0.772
8/23/2015	7:07:55	0	3.675	15.3	4.4	0.725
8/23/2015	11:07:55	0	3.574	15.3	4.4	0.826
8/23/2015	15:07:55	0	3.522	15.3	4.4	0.878
8/23/2015	19:07:55	0	3.445	15.3	4.4	0.955
8/23/2015	23:07:55	0	3.551	15.3	4.4	0.849
8/24/2015	3:07:55	0	3.486	15.3	4.4	0.914
8/24/2015	7:07:55	0	3.622	15.3	4.4	0.778
8/24/2015	11:07:55	0	3.51	15.3	4.4	0.89
8/24/2015	15:07:55	0	3.375	15.3	4.4	1.025
8/24/2015	19:07:55	0	3.353	15.3	4.4	1.047
8/24/2015	23:07:55	0	3.477	15.3	4.4	0.923
8/25/2015	3:07:55	0	3.425	15.3	4.4	0.975
8/25/2015	7:07:55	0	3.695	15.2	4.4	0.705
8/25/2015	11:07:55	0	3.936	15.2	4.4	0.464
8/25/2015	15:07:55	0	3.806	15.2	4.4	0.594
8/25/2015	19:07:55	0	3.873	15.2	4.4	0.527
8/25/2015	23:07:55	0	3.958	15.2	4.4	0.442
8/26/2015	3:07:55	0	3.882	15.2	4.4	0.518
8/26/2015	7:07:55	0	3.913	15.3	4.4	0.487
8/26/2015	11:07:55	0	3.88	15.3	4.4	0.52
8/26/2015	15:07:55	0	3.729	15.3	4.4	0.671
8/26/2015	19:07:55	0	3.757	15.3	4.4	0.643
8/26/2015	23:07:55	0	3.857	15.3	4.4	0.543
8/27/2015	3:07:55	0	3.736	15.3	4.4	0.664
8/27/2015	7:07:55	0	3.86	15.3	4.4	0.54
8/27/2015	11:07:55	0	3.801	15.3	4.4	0.599
8/27/2015	15:07:55	0	3.673	15.3	4.4	0.727

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8/27/2015	19:07:55	0	3.741	15.3	4.4	0.659
8/27/2015	23:07:55	0	3.794	15.3	4.4	0.606
8/28/2015	3:07:55	0	3.716	15.3	4.4	0.684
8/28/2015	7:07:55	0	3.775	15.3	4.4	0.625
8/28/2015	11:07:55	0	3.732	15.3	4.4	0.668
8/28/2015	15:07:55	0	3.544	15.3	4.4	0.856
8/28/2015	19:07:55	0	3.604	15.3	4.4	0.796
8/28/2015	23:07:55	0	3.662	15.3	4.4	0.738
8/29/2015	3:07:55	0	3.61	15.3	4.4	0.79
8/29/2015	7:07:55	0	3.698	15.2	4.4	0.702
8/29/2015	11:07:55	0	3.604	15.2	4.4	0.796
8/29/2015	15:07:55	0	3.398	15.2	4.4	1.002
8/29/2015	19:07:55	0	3.412	15.2	4.4	0.988
8/29/2015	23:07:55	0	3.494	15.2	4.4	0.906
8/30/2015	3:07:55	0	3.476	15.2	4.4	0.924
8/30/2015	7:07:55	0	3.589	15.1	4.4	0.811
8/30/2015	11:07:55	0	3.527	15.1	4.4	0.873
8/30/2015	15:07:55	0	3.353	15.1	4.4	1.047
8/30/2015	19:07:55	0	3.363	15.1	4.4	1.037
8/30/2015	23:07:55	0	3.425	15.1	4.4	0.975
8/31/2015	3:07:55	0	3.411	15.1	4.4	0.989
8/31/2015	7:07:55	0	3.489	15.1	4.4	0.911
8/31/2015	11:07:55	0	3.45	15.1	4.4	0.95
8/31/2015	15:07:55	0	3.249	15.1	4.4	1.151
8/31/2015	19:07:55	0	3.35	15	4.4	1.05
8/31/2015	23:07:55	0	3.361	15	4.4	1.039
9/1/2015	3:07:55	0	3.379	15	4.4	1.021
9/1/2015	7:07:55	0	3.433	15	4.4	0.967
9/1/2015	11:07:55	0	3.376	15	4.4	1.024
9/1/2015	15:07:55	0	3.167	15	4.4	1.233
9/1/2015	19:07:55	0	3.158	15	4.4	1.242
9/1/2015	23:07:55	0	3.233	15	4.4	1.167
9/2/2015	3:07:55	0	3.167	15	4.4	1.233
9/2/2015	7:07:55	0	3.25	15	4.4	1.15
9/2/2015	11:07:55	0	3.165	15	4.4	1.235
9/2/2015	15:07:55	0	2.981	15	4.4	1.419
9/2/2015	19:07:55	0	2.957	15	4.4	1.443
9/2/2015	23:07:55	0	3.04	15	4.4	1.36
9/3/2015	3:07:55	0	3.014	15	4.4	1.386
9/3/2015	7:07:55	0	3.125	15	4.4	1.275
9/3/2015	11:07:55	0	3.036	15	4.4	1.364
9/3/2015	15:07:55	0	2.871	15	4.4	1.529
9/3/2015	19:07:55	0	2.952	15	4.4	1.448
9/3/2015	23:07:55	0	3.013	15	4.4	1.387
9/4/2015	3:07:55	0	2.99	15	4.4	1.41
9/4/2015	7:07:55	0	3.136	15	4.4	1.264
9/4/2015	11:07:55	0	3.036	15	4.4	1.364
9/4/2015	15:07:55	0	2.843	15	4.4	1.557
9/4/2015	19:07:55	0	2.845	15	4.4	1.555
9/4/2015	23:07:55	0	2.894	15	4.4	1.506
9/5/2015	3:07:55	0	2.82	15	4.4	1.58
9/5/2015	7:07:55	0	2.962	15	4.4	1.438
9/5/2015	11:07:55	0	2.801	15	4.4	1.599
9/5/2015	15:07:55	0	2.625	15	4.4	1.775
9/5/2015	19:07:55	0	2.649	15	4.4	1.751
9/5/2015	23:07:55	0	2.701	15	4.4	1.699
9/6/2015	3:07:55	0	2.727	15	4.4	1.673
9/6/2015	7:07:55	0	2.769	15	4.4	1.631
9/6/2015	11:07:55	0	2.675	15	4.4	1.725
9/6/2015	15:07:55	0	2.523	15	4.4	1.877
9/6/2015	19:07:55	0	2.504	15	4.4	1.896
9/6/2015	23:07:55	0	2.591	15	4.4	1.809
9/7/2015	3:07:55	0	2.568	15	4.4	1.832
9/7/2015	7:07:55	0	2.671	15	4.4	1.729
9/7/2015	11:07:55	0	2.587	15	4.4	1.813
9/7/2015	15:07:55	0	2.394	15	4.4	2.006
9/7/2015	19:07:55	0	2.417	14.9	4.4	1.983
9/7/2015	23:07:55	0	2.546	14.9	4.4	1.854
9/8/2015	3:07:55	0	2.538	14.9	4.4	1.862
9/8/2015	7:07:55	0	2.61	14.9	4.4	1.79
9/8/2015	11:07:55	0	2.516	14.9	4.4	1.884
9/8/2015	15:07:55	0	2.321	14.9	4.4	2.079
9/8/2015	19:07:55	0	2.371	14.9	4.4	2.029
9/8/2015	23:07:55	0	2.459	14.9	4.4	1.941
9/9/2015	3:07:55	0	2.422	14.9	4.4	1.978
9/9/2015	7:07:55	0	2.485	14.9	4.4	1.915
9/9/2015	11:07:55	0	2.399	14.9	4.4	2.001
9/9/2015	15:07:55	0	2.248	14.9	4.4	2.152
9/9/2015	19:07:55	0	2.451	14.9	4.4	1.949
9/9/2015	23:07:55	0	2.658	14.9	4.4	1.742
9/10/2015	3:07:55	0	2.603	14.9	4.4	1.797
9/10/2015	7:07:55	0	2.706	14.9	4.4	1.694
9/10/2015	11:07:55	0	2.723	15	4.4	1.677
9/10/2015	15:07:55	0	2.566	15	4.4	1.834
9/10/2015	19:07:55	0	2.706	15	4.4	1.694
9/10/2015	23:07:55	0	3.063	15	4.4	1.337
9/11/2015	3:07:55	0	3.256	15	4.4	1.144

Ground Water Level Data - 2015
Replication Area B - Well #2
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area B - Well #2
Pittsfield Airport, Pittsfield, MA

9/11/2015	7:07:55	0	3.449	15.1	4.4	0.951
9/11/2015	11:07:55	0	3.415	15.1	4.4	0.985
9/11/2015	15:07:55	0	3.322	15.1	4.4	1.078
9/11/2015	19:07:55	0	3.362	15.1	4.4	1.038
9/11/2015	23:07:55	0	3.401	15.1	4.4	0.999
9/12/2015	3:07:55	0	3.333	15.1	4.4	1.067
9/12/2015	7:07:55	0	3.376	15.1	4.4	1.024
9/12/2015	11:07:55	0	3.295	15.1	4.4	1.105
9/12/2015	15:07:55	0	3.181	15.1	4.4	1.219
9/12/2015	19:07:55	0	3.489	15.1	4.4	0.911
9/12/2015	23:07:55	0	3.736	15.1	4.4	0.664
9/13/2015	3:07:55	0	3.841	15.1	4.4	0.559
9/13/2015	7:07:55	0	3.985	15.1	4.4	0.415
9/13/2015	11:07:55	0	3.997	15.1	4.4	0.403
9/13/2015	15:07:55	0	3.881	15.1	4.4	0.519
9/13/2015	19:07:55	0	3.978	15.1	4.4	0.422
9/13/2015	23:07:55	0	4.013	15.1	4.4	0.387
9/14/2015	3:07:55	0	3.95	15.1	4.4	0.45
9/14/2015	7:07:55	0	4.021	15.1	4.4	0.379
9/14/2015	11:07:55	0	4.057	15.1	4.4	0.343
9/14/2015	15:07:55	0	4.027	15.1	4.4	0.373
9/14/2015	19:07:55	0	3.999	15.1	4.4	0.401
9/14/2015	23:07:55	0	3.995	15.1	4.4	0.405
9/15/2015	3:07:55	0	3.984	15.1	4.4	0.416
9/15/2015	7:07:55	0	3.972	15.1	4.4	0.428
9/15/2015	11:07:55	0	3.908	15	4.4	0.492
9/15/2015	15:07:55	0	3.731	15	4.4	0.669
9/15/2015	19:07:55	0	3.795	15	4.4	0.605
9/15/2015	23:07:55	0	3.839	15	4.4	0.561
9/16/2015	3:07:55	0	3.8	15	4.4	0.6
9/16/2015	7:07:55	0	3.852	15	4.4	0.548
9/16/2015	11:07:55	0	3.781	15	4.4	0.619
9/16/2015	15:07:55	0	3.595	14.9	4.4	0.805
9/16/2015	19:07:55	0	3.639	14.9	4.4	0.761
9/16/2015	23:07:55	0	3.732	14.9	4.4	0.668
9/17/2015	3:07:55	0	3.668	14.9	4.4	0.732
9/17/2015	7:07:55	0	3.743	14.9	4.4	0.657
9/17/2015	11:07:55	0	3.68	14.9	4.4	0.72
9/17/2015	15:07:55	0	3.516	14.8	4.4	0.884
9/17/2015	19:07:55	0	3.593	14.8	4.4	0.807
9/17/2015	23:07:55	0	3.637	14.8	4.4	0.763
9/18/2015	3:07:55	0	3.603	14.8	4.4	0.797
9/18/2015	7:07:55	0	3.712	14.8	4.4	0.688
9/18/2015	11:07:55	0	3.61	14.8	4.4	0.79
9/18/2015	15:07:55	0	3.464	14.8	4.4	0.936
9/18/2015	19:07:55	0	3.504	14.8	4.4	0.896
9/18/2015	23:07:55	0	3.572	14.7	4.4	0.828
9/19/2015	3:07:55	0	3.474	14.7	4.4	0.926
9/19/2015	7:07:55	0	3.573	14.7	4.4	0.827
9/19/2015	11:07:55	0	3.484	14.7	4.4	0.916
9/19/2015	15:07:55	0	3.362	14.7	4.4	1.038
9/19/2015	19:07:55	0	3.368	14.7	4.4	1.032
9/19/2015	23:07:55	0	3.445	14.7	4.4	0.955
9/20/2015	3:07:55	0	3.542	14.7	4.4	0.858
9/20/2015	7:07:55	0	3.592	14.7	4.4	0.808
9/20/2015	11:07:55	0	3.604	14.7	4.4	0.796
9/20/2015	15:07:55	0	3.343	14.7	4.4	1.057
9/20/2015	19:07:55	0	3.397	14.7	4.4	1.003
9/20/2015	23:07:55	0	3.388	14.7	4.4	1.012
9/21/2015	3:07:55	0	3.367	14.7	4.4	1.033
9/21/2015	7:07:55	0	3.431	14.7	4.4	0.969
9/21/2015	11:07:55	0	3.362	14.7	4.4	1.038
9/21/2015	15:07:55	0	3.215	14.7	4.4	1.185
9/21/2015	19:07:55	0	3.221	14.6	4.4	1.179
9/21/2015	23:07:55	0	3.241	14.6	4.4	1.159
9/22/2015	3:07:55	0	3.234	14.6	4.4	1.166
9/22/2015	7:07:55	0	3.302	14.6	4.4	1.098
9/22/2015	11:07:55	0	3.217	14.6	4.4	1.183
9/22/2015	15:07:55	0	3.089	14.6	4.4	1.311
9/22/2015	19:07:55	0	3.109	14.5	4.4	1.291
9/22/2015	23:07:55	0	3.138	14.5	4.4	1.262
9/23/2015	3:07:55	0	3.128	14.5	4.4	1.272
9/23/2015	7:07:55	0	3.214	14.5	4.4	1.186
9/23/2015	11:07:55	0	3.159	14.5	4.4	1.241
9/23/2015	15:07:55	0	3.002	14.4	4.4	1.398
9/23/2015	19:07:55	0	3.042	14.4	4.4	1.358
9/23/2015	23:07:55	0	3.077	14.4	4.4	1.323
9/24/2015	3:07:55	0	3.097	14.4	4.4	1.303
9/24/2015	7:07:55	0	3.153	14.3	4.4	1.247
9/24/2015	11:07:55	0	3.119	14.3	4.4	1.281
9/24/2015	15:07:55	0	2.913	14.3	4.4	1.487
9/24/2015	19:07:55	0	2.982	14.3	4.4	1.418
9/24/2015	23:07:55	0	3.034	14.2	4.4	1.366
9/25/2015	3:07:55	0	2.952	14.2	4.4	1.448
9/25/2015	7:07:55	0	3.03	14.2	4.4	1.37
9/25/2015	11:07:55	0	3.01	14.2	4.4	1.39
9/25/2015	15:07:55	0	2.799	14.1	4.4	1.601

Ground Water Level Data - 2015
Replication Area B - Well #2
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area B - Well #2
Pittsfield Airport, Pittsfield, MA

9/25/2015	19:07:55	0	2.868	14.1	4.4	1.532
9/25/2015	23:07:55	0	2.916	14.1	4.4	1.484
9/26/2015	3:07:55	0	2.949	14.1	4.4	1.451
9/26/2015	7:07:55	0	3.016	14	4.4	1.384
9/26/2015	11:07:55	0	2.982	14	4.4	1.418
9/26/2015	15:07:55	0	2.722	14	4.4	1.678
9/26/2015	19:07:55	0	2.813	14	4.4	1.587
9/26/2015	23:07:55	0	2.827	14	4.4	1.573
9/27/2015	3:07:55	0	2.78	13.9	4.4	1.62
9/27/2015	7:07:55	0	2.844	13.9	4.4	1.556
9/27/2015	11:07:55	0	2.788	13.9	4.4	1.612
9/27/2015	15:07:55	0	2.563	13.9	4.4	1.837
9/27/2015	19:07:55	0	2.648	13.9	4.4	1.752
9/27/2015	23:07:55	0	2.708	13.8	4.4	1.692
9/28/2015	3:07:55	0	2.651	13.8	4.4	1.749
9/28/2015	7:07:55	0	2.74	13.8	4.4	1.66
9/28/2015	11:07:55	0	2.706	13.8	4.4	1.694
9/28/2015	15:07:55	0	2.525	13.8	4.4	1.875
9/28/2015	19:07:55	0	2.572	13.7	4.4	1.828
9/28/2015	23:07:55	0	2.606	13.7	4.4	1.794
9/29/2015	3:07:55	0	2.61	13.7	4.4	1.79
9/29/2015	7:07:55	0	2.683	13.7	4.4	1.717
9/29/2015	11:07:55	0	2.65	13.6	4.4	1.75
9/29/2015	15:07:55	0	2.577	13.6	4.4	1.823
9/29/2015	19:07:55	0	2.703	13.6	4.4	1.697
9/29/2015	23:07:55	0	2.844	13.6	4.4	1.556
9/30/2015	3:07:55	0	2.975	13.6	4.4	1.425
9/30/2015	7:07:55	0	3.544	13.6	4.4	0.856
9/30/2015	11:07:55	0	4.453	13.6	4.4	-0.053
9/30/2015	15:07:55	0	4.588	13.6	4.4	-0.188
9/30/2015	19:07:55	0	4.624	13.6	4.4	-0.224
9/30/2015	23:07:55	0	4.47	13.6	4.4	-0.07
10/1/2015	3:07:55	0	4.284	13.6	4.4	0.116
10/1/2015	7:07:55	0	4.264	13.6	4.4	0.136
10/1/2015	11:07:55	0	4.159	13.6	4.4	0.241
10/1/2015	15:07:55	0	4.042	13.6	4.4	0.358
10/1/2015	19:07:55	0	4.123	13.6	4.4	0.277
10/1/2015	23:07:55	0	4.044	13.6	4.4	0.356
10/2/2015	3:07:55	0	3.985	13.6	4.4	0.415
10/2/2015	7:07:55	0	4.016	13.6	4.4	0.384
10/2/2015	11:07:55	0	3.985	13.6	4.4	0.415
10/2/2015	15:07:55	0	3.952	13.6	4.4	0.448
10/2/2015	19:07:55	0	3.984	13.6	4.4	0.416
10/2/2015	23:07:55	0	3.939	13.6	4.4	0.461
10/3/2015	3:07:55	0	3.889	13.6	4.4	0.511
10/3/2015	7:07:55	0	4.002	13.6	4.4	0.398
10/3/2015	11:07:55	0	3.934	13.6	4.4	0.466
10/3/2015	15:07:55	0	3.868	13.6	4.4	0.532
10/3/2015	19:07:55	0	3.923	13.6	4.4	0.477
10/3/2015	23:07:55	0	3.881	13.6	4.4	0.519
10/4/2015	3:07:55	0	3.831	13.5	4.4	0.569
10/4/2015	7:07:55	0	3.898	13.5	4.4	0.502
10/4/2015	11:07:55	0	3.816	13.5	4.4	0.584
10/4/2015	15:07:55	0	3.718	13.5	4.4	0.682
10/4/2015	19:07:55	0	3.778	13.5	4.4	0.622
10/4/2015	23:07:55	0	3.838	13.4	4.4	0.562
10/5/2015	3:07:55	0	3.812	13.4	4.4	0.588
10/5/2015	7:07:55	0	3.839	13.4	4.4	0.561
10/5/2015	11:07:55	0	3.816	13.4	4.4	0.584
10/5/2015	15:07:55	0	3.663	13.3	4.4	0.737
10/5/2015	19:07:55	0	3.759	13.3	4.4	0.641
10/5/2015	23:07:55	0	3.796	13.3	4.4	0.604
10/6/2015	3:07:55	0	3.755	13.2	4.4	0.645
10/6/2015	7:07:55	0	3.821	13.2	4.4	0.579

AVERAGE LEVEL ABOVE LOGGER	**3.882104**	***AVERAGE GW DEPTH BELOW GROUND EL***	**0.5178957**
		MINIMUM	**0.583**
		MAXIMUM	**2.152**
		# of readings less than 2.1'	1006

Ground Water Level Data - 2015
Replication Area B - Well #2
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area E - Well #1
Pittsfield Airport, Pittsfield, MA

Serial_number:
1049772
Project ID:
Pittsfield RW 8-26 RSA
Location:
Replication Area E - Welll #1
LEVEL
UNIT: ft
Offset: 0.000000 ft
Altitude: 355.000000 ft
Density: 1.000000 kg/L
TEMPERATURE
UNIT: Deg C

Date	Time	ms	Water Level	Water Temp	Ground Level	Ground Water Depth
4/21/2015	16:07:14	0	7.321	4.9	7.4	0.079
4/21/2015	20:07:14	0	7.433	5	7.4	-0.033
4/22/2015	0:07:14	0	7.387	5.1	7.4	0.013
4/22/2015	4:07:14	0	7.211	5.1	7.4	0.189
4/22/2015	8:07:14	0	6.934	5.1	7.4	0.466
4/22/2015	12:07:14	0	6.582	5.1	7.4	0.818
4/22/2015	16:07:14	0	6.337	5	7.4	1.063
4/22/2015	20:07:14	0	7.174	5	7.4	0.226
4/23/2015	0:07:14	0	7.621	5	7.4	-0.221
4/23/2015	4:07:14	0	7.337	5.1	7.4	0.063
4/23/2015	8:07:14	0	7.553	5.1	7.4	-0.153
4/23/2015	12:07:14	0	7.422	5.2	7.4	-0.022
4/23/2015	16:07:14	0	7.362	5.2	7.4	0.038
4/23/2015	20:07:14	0	7.429	5.3	7.4	-0.029
4/24/2015	0:07:14	0	7.275	5.3	7.4	0.125
4/24/2015	4:07:14	0	7.17	5.2	7.4	0.23
4/24/2015	8:07:14	0	7.018	5.3	7.4	0.382
4/24/2015	12:07:14	0	6.765	5.3	7.4	0.635
4/24/2015	16:07:14	0	6.673	5.3	7.4	0.727
4/24/2015	20:07:14	0	6.648	5.3	7.4	0.752
4/25/2015	0:07:14	0	6.481	5.3	7.4	0.919
4/25/2015	4:07:14	0	6.314	5.3	7.4	1.086
4/25/2015	8:07:14	0	6.391	5.3	7.4	1.009
4/25/2015	12:07:14	0	6.18	5.3	7.4	1.22
4/25/2015	16:07:14	0	5.967	5.3	7.4	1.433
4/25/2015	20:07:14	0	6.095	5.3	7.4	1.305
4/26/2015	0:07:14	0	6.118	5.3	7.4	1.282
4/26/2015	4:07:14	0	5.995	5.3	7.4	1.405
4/26/2015	8:07:14	0	6.135	5.4	7.4	1.265
4/26/2015	12:07:14	0	6.009	5.4	7.4	1.391
4/26/2015	16:07:14	0	5.897	5.4	7.4	1.503
4/26/2015	20:07:14	0	5.966	5.4	7.4	1.434
4/27/2015	0:07:14	0	5.961	5.4	7.4	1.439
4/27/2015	4:07:14	0	5.916	5.4	7.4	1.484
4/27/2015	8:07:14	0	5.931	5.4	7.4	1.469
4/27/2015	12:07:14	0	5.864	5.4	7.4	1.536
4/27/2015	16:07:14	0	5.793	5.4	7.4	1.607
4/27/2015	20:07:14	0	5.94	5.4	7.4	1.46
4/28/2015	0:07:14	0	5.852	5.4	7.4	1.548
4/28/2015	4:07:14	0	5.843	5.4	7.4	1.557
4/28/2015	8:07:14	0	5.954	5.4	7.4	1.446
4/28/2015	12:07:14	0	5.73	5.4	7.4	1.67
4/28/2015	16:07:14	0	5.514	5.4	7.4	1.886
4/28/2015	20:07:14	0	5.67	5.4	7.4	1.73
4/29/2015	0:07:14	0	5.596	5.5	7.4	1.804
4/29/2015	4:07:14	0	5.646	5.5	7.4	1.754
4/29/2015	8:07:14	0	5.726	5.5	7.4	1.674
4/29/2015	12:07:14	0	5.532	5.5	7.4	1.868
4/29/2015	16:07:14	0	5.486	5.5	7.4	1.914
4/29/2015	20:07:14	0	5.603	5.5	7.4	1.797
4/30/2015	0:07:14	0	5.717	5.5	7.4	1.683
4/30/2015	4:07:14	0	5.569	5.5	7.4	1.831
4/30/2015	8:07:14	0	5.711	5.5	7.4	1.689
4/30/2015	12:07:14	0	5.503	5.5	7.4	1.897
4/30/2015	16:07:14	0	5.469	5.5	7.4	1.931
4/30/2015	20:07:14	0	5.6	5.5	7.4	1.8
5/1/2015	0:07:14	0	5.633	5.5	7.4	1.767
5/1/2015	4:07:14	0	5.607	5.5	7.4	1.793
5/1/2015	8:07:14	0	5.615	5.6	7.4	1.785
5/1/2015	12:07:14	0	5.427	5.6	7.4	1.973
5/1/2015	16:07:14	0	5.424	5.6	7.4	1.976
5/1/2015	20:07:14	0	5.503	5.6	7.4	1.897
5/2/2015	0:07:14	0	5.542	5.6	7.4	1.858
5/2/2015	4:07:14	0	5.515	5.6	7.4	1.885
5/2/2015	8:07:14	0	5.569	5.6	7.4	1.831
5/2/2015	12:07:14	0	5.343	5.6	7.4	2.057
5/2/2015	16:07:14	0	5.268	5.7	7.4	2.132
5/2/2015	20:07:14	0	5.417	5.7	7.4	1.983
5/3/2015	0:07:14	0	5.516	5.7	7.4	1.884
5/3/2015	4:07:14	0	5.477	5.7	7.4	1.923
5/3/2015	8:07:14	0	5.564	5.7	7.4	1.836

Ground Water Level Data - 2015
Replication Area E - Well #1
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area E - Well #1
Pittsfield Airport, Pittsfield, MA

5/3/2015	12:07:14	0	5.338	5.7	7.4	2.062
5/3/2015	16:07:14	0	5.236	5.7	7.4	2.164
5/3/2015	20:07:14	0	5.36	5.7	7.4	2.04
5/4/2015	0:07:14	0	5.479	5.8	7.4	1.921
5/4/2015	4:07:14	0	5.45	5.8	7.4	1.95
5/4/2015	8:07:14	0	5.473	5.8	7.4	1.927
5/4/2015	12:07:14	0	5.191	5.8	7.4	2.209
5/4/2015	16:07:14	0	5.088	5.8	7.4	2.312
5/4/2015	20:07:14	0	5.193	5.8	7.4	2.207
5/5/2015	0:07:14	0	5.381	5.8	7.4	2.019
5/5/2015	4:07:14	0	5.334	5.9	7.4	2.066
5/5/2015	8:07:14	0	5.407	5.9	7.4	1.993
5/5/2015	12:07:14	0	5.264	5.9	7.4	2.136
5/5/2015	16:07:14	0	5.09	5.9	7.4	2.31
5/5/2015	20:07:14	0	5.225	5.9	7.4	2.175
5/6/2015	0:07:14	0	5.334	5.9	7.4	2.066
5/6/2015	4:07:14	0	5.317	6	7.4	2.083
5/6/2015	8:07:14	0	5.404	6	7.4	1.996
5/6/2015	12:07:14	0	5.172	6	7.4	2.228
5/6/2015	16:07:14	0	4.986	6	7.4	2.414
5/6/2015	20:07:14	0	5.13	6	7.4	2.27
5/7/2015	0:07:14	0	5.309	6	7.4	2.091
5/7/2015	4:07:14	0	5.244	6.1	7.4	2.156
5/7/2015	8:07:14	0	5.329	6.1	7.4	2.071
5/7/2015	12:07:14	0	5.1	6.1	7.4	2.3
5/7/2015	16:07:14	0	4.973	6.1	7.4	2.427
5/7/2015	20:07:14	0	5.098	6.1	7.4	2.302
5/8/2015	0:07:14	0	5.274	6.2	7.4	2.126
5/8/2015	4:07:14	0	5.248	6.2	7.4	2.152
5/8/2015	8:07:14	0	5.338	6.2	7.4	2.062
5/8/2015	12:07:14	0	5.109	6.2	7.4	2.291
5/8/2015	16:07:14	0	5.022	6.3	7.4	2.378
5/8/2015	20:07:14	0	5.212	6.3	7.4	2.188
5/9/2015	0:07:14	0	5.368	6.3	7.4	2.032
5/9/2015	4:07:14	0	5.279	6.3	7.4	2.121
5/9/2015	8:07:14	0	5.328	6.3	7.4	2.072
5/9/2015	12:07:14	0	5.093	6.4	7.4	2.307
5/9/2015	16:07:14	0	5.001	6.4	7.4	2.399
5/9/2015	20:07:14	0	5.132	6.4	7.4	2.268
5/10/2015	0:07:14	0	5.188	6.4	7.4	2.212
5/10/2015	4:07:14	0	5.119	6.4	7.4	2.281
5/10/2015	8:07:14	0	5.186	6.5	7.4	2.214
5/10/2015	12:07:14	0	5.024	6.5	7.4	2.376
5/10/2015	16:07:14	0	4.951	6.5	7.4	2.449
5/10/2015	20:07:14	0	5.115	6.6	7.4	2.285
5/11/2015	0:07:14	0	5.244	6.6	7.4	2.156
5/11/2015	4:07:14	0	5.121	6.6	7.4	2.279
5/11/2015	8:07:14	0	5.157	6.6	7.4	2.243
5/11/2015	12:07:14	0	5.044	6.7	7.4	2.356
5/11/2015	16:07:14	0	4.916	6.7	7.4	2.484
5/11/2015	20:07:14	0	5.057	6.7	7.4	2.343
5/12/2015	0:07:14	0	5.079	6.7	7.4	2.321
5/12/2015	4:07:14	0	5.012	6.7	7.4	2.388
5/12/2015	8:07:14	0	5.046	6.8	7.4	2.354
5/12/2015	12:07:14	0	5.005	6.8	7.4	2.395
5/12/2015	16:07:14	0	4.982	6.8	7.4	2.418
5/12/2015	20:07:14	0	5.289	6.8	7.4	2.111
5/13/2015	0:07:14	0	5.327	6.9	7.4	2.073
5/13/2015	4:07:14	0	5.187	6.9	7.4	2.213
5/13/2015	8:07:14	0	5.35	6.9	7.4	2.05
5/13/2015	12:07:14	0	5.304	7	7.4	2.096
5/13/2015	16:07:14	0	5.204	7	7.4	2.196
5/13/2015	20:07:14	0	5.241	7	7.4	2.159
5/14/2015	0:07:14	0	5.354	7	7.4	2.046
5/14/2015	4:07:14	0	5.277	7.1	7.4	2.123
5/14/2015	8:07:14	0	5.297	7.1	7.4	2.103
5/14/2015	12:07:14	0	5.014	7.2	7.4	2.386
5/14/2015	16:07:14	0	4.881	7.2	7.4	2.519
5/14/2015	20:07:14	0	4.967	7.2	7.4	2.433
5/15/2015	0:07:14	0	5.117	7.2	7.4	2.283
5/15/2015	4:07:14	0	5.078	7.2	7.4	2.322
5/15/2015	8:07:14	0	5.184	7.3	7.4	2.216
5/15/2015	12:07:14	0	4.943	7.3	7.4	2.457
5/15/2015	16:07:14	0	4.769	7.4	7.4	2.631
5/15/2015	20:07:14	0	4.886	7.4	7.4	2.514
5/16/2015	0:07:14	0	4.996	7.4	7.4	2.404
5/16/2015	4:07:14	0	4.959	7.4	7.4	2.441
5/16/2015	8:07:14	0	5.032	7.4	7.4	2.368
5/16/2015	12:07:14	0	4.89	7.5	7.4	2.51
5/16/2015	16:07:14	0	4.771	7.5	7.4	2.629
5/16/2015	20:07:14	0	4.939	7.5	7.4	2.461
5/17/2015	0:07:14	0	5.012	7.5	7.4	2.388
5/17/2015	4:07:14	0	4.882	7.6	7.4	2.518
5/17/2015	8:07:14	0	5.02	7.6	7.4	2.38
5/17/2015	12:07:14	0	4.829	7.6	7.4	2.571
5/17/2015	16:07:14	0	4.715	7.7	7.4	2.685
5/17/2015	20:07:14	0	4.824	7.7	7.4	2.576

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5/18/2015	0:07:14	0	4.919	7.7	7.4	2.481
5/18/2015	4:07:14	0	4.892	7.7	7.4	2.508
5/18/2015	8:07:14	0	5.003	7.7	7.4	2.397
5/18/2015	12:07:14	0	4.78	7.7	7.4	2.62
5/18/2015	16:07:14	0	4.63	7.8	7.4	2.77
5/18/2015	20:07:14	0	4.766	7.8	7.4	2.634
5/19/2015	0:07:14	0	4.728	7.8	7.4	2.672
5/19/2015	4:07:14	0	4.705	7.8	7.4	2.695
5/19/2015	8:07:14	0	4.777	7.8	7.4	2.623
5/19/2015	12:07:14	0	4.761	7.8	7.4	2.639
5/19/2015	16:07:14	0	4.582	7.9	7.4	2.818
5/19/2015	20:07:14	0	4.71	7.9	7.4	2.69
5/20/2015	0:07:14	0	5.108	7.9	7.4	2.292
5/20/2015	4:07:14	0	4.801	7.9	7.4	2.599
5/20/2015	8:07:14	0	4.883	7.9	7.4	2.517
5/20/2015	12:07:14	0	4.926	8	7.4	2.474
5/20/2015	16:07:14	0	4.773	8	7.4	2.627
5/20/2015	20:07:14	0	4.919	8	7.4	2.481
5/21/2015	0:07:14	0	4.929	8	7.4	2.471
5/21/2015	4:07:14	0	4.826	8	7.4	2.574
5/21/2015	8:07:14	0	4.95	8	7.4	2.45
5/21/2015	12:07:14	0	4.699	8.1	7.4	2.701
5/21/2015	16:07:14	0	4.602	8.1	7.4	2.798
5/21/2015	20:07:14	0	4.726	8.1	7.4	2.674
5/22/2015	0:07:14	0	4.792	8.1	7.4	2.608
5/22/2015	4:07:14	0	4.853	8.1	7.4	2.547
5/22/2015	8:07:14	0	4.883	8.2	7.4	2.517
5/22/2015	12:07:14	0	4.755	8.2	7.4	2.645
5/22/2015	16:07:14	0	4.865	8.2	7.4	2.535
5/22/2015	20:07:14	0	4.907	8.2	7.4	2.493
5/23/2015	0:07:14	0	4.968	8.2	7.4	2.432
5/23/2015	4:07:14	0	5.005	8.2	7.4	2.395
5/23/2015	8:07:14	0	5.071	8.3	7.4	2.329
5/23/2015	12:07:14	0	4.811	8.3	7.4	2.589
5/23/2015	16:07:14	0	4.604	8.3	7.4	2.796
5/23/2015	20:07:14	0	4.641	8.3	7.4	2.759
5/24/2015	0:07:14	0	4.786	8.3	7.4	2.614
5/24/2015	4:07:14	0	4.81	8.3	7.4	2.59
5/24/2015	8:07:14	0	4.914	8.3	7.4	2.486
5/24/2015	12:07:14	0	4.627	8.4	7.4	2.773
5/24/2015	16:07:14	0	4.554	8.4	7.4	2.846
5/24/2015	20:07:14	0	4.653	8.4	7.4	2.747
5/25/2015	0:07:14	0	4.845	8.4	7.4	2.555
5/25/2015	4:07:14	0	4.806	8.4	7.4	2.594
5/25/2015	8:07:14	0	4.896	8.4	7.4	2.504
5/25/2015	12:07:14	0	4.698	8.4	7.4	2.702
5/25/2015	16:07:14	0	4.467	8.5	7.4	2.933
5/25/2015	20:07:14	0	4.627	8.5	7.4	2.773
5/26/2015	0:07:14	0	4.772	8.5	7.4	2.628
5/26/2015	4:07:14	0	4.729	8.5	7.4	2.671
5/26/2015	8:07:14	0	4.819	8.5	7.4	2.581
5/26/2015	12:07:14	0	4.695	8.5	7.4	2.705
5/26/2015	16:07:14	0	4.562	8.5	7.4	2.838
5/26/2015	20:07:14	0	4.655	8.5	7.4	2.745
5/27/2015	0:07:14	0	4.794	8.5	7.4	2.606
5/27/2015	4:07:14	0	4.718	8.5	7.4	2.682
5/27/2015	8:07:14	0	4.793	8.6	7.4	2.607
5/27/2015	12:07:14	0	4.64	8.6	7.4	2.76
5/27/2015	16:07:14	0	4.523	8.6	7.4	2.877
5/27/2015	20:07:14	0	5.069	8.6	7.4	2.331
5/28/2015	0:07:14	0	5	8.6	7.4	2.4
5/28/2015	4:07:14	0	4.998	8.6	7.4	2.402
5/28/2015	8:07:14	0	5.078	8.6	7.4	2.322
5/28/2015	12:07:14	0	4.871	8.6	7.4	2.529
5/28/2015	16:07:14	0	5.021	8.6	7.4	2.379
5/28/2015	20:07:14	0	5.244	8.7	7.4	2.156
5/29/2015	0:07:14	0	5.208	8.7	7.4	2.192
5/29/2015	4:07:14	0	5.15	8.7	7.4	2.25
5/29/2015	8:07:14	0	5.235	8.7	7.4	2.165
5/29/2015	12:07:14	0	4.947	8.7	7.4	2.453
5/29/2015	16:07:14	0	4.92	8.7	7.4	2.48
5/29/2015	20:07:14	0	4.953	8.7	7.4	2.447
5/30/2015	0:07:14	0	5.11	8.7	7.4	2.29
5/30/2015	4:07:14	0	5.05	8.7	7.4	2.35
5/30/2015	8:07:14	0	5.152	8.8	7.4	2.248
5/30/2015	12:07:14	0	4.932	8.8	7.4	2.468
5/30/2015	16:07:14	0	4.844	8.8	7.4	2.556
5/30/2015	20:07:14	0	4.946	8.8	7.4	2.454
5/31/2015	0:07:14	0	5.092	8.8	7.4	2.308
5/31/2015	4:07:14	0	5.083	8.9	7.4	2.317
5/31/2015	8:07:14	0	5.216	8.9	7.4	2.184
5/31/2015	12:07:14	0	5.279	8.9	7.4	2.121
5/31/2015	16:07:14	0	5.27	8.9	7.4	2.13
5/31/2015	20:07:14	0	5.261	8.9	7.4	2.139
6/1/2015	0:07:14	0	5.21	8.9	7.4	2.19
6/1/2015	4:07:14	0	5.129	9	7.4	2.271
6/1/2015	8:07:14	0	5.319	9	7.4	2.081

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6/1/2015	12:07:14	0	5.365	9	7.4	2.035
6/1/2015	16:07:14	0	5.514	9	7.4	1.886
6/1/2015	20:07:14	0	6.581	9.1	7.4	0.819
6/2/2015	0:07:14	0	7.523	9.2	7.4	-0.123
6/2/2015	4:07:14	0	7.358	9.3	7.4	0.042
6/2/2015	8:07:14	0	7.449	9.4	7.4	-0.049
6/2/2015	12:07:14	0	7.435	9.4	7.4	-0.035
6/2/2015	16:07:14	0	7.201	9.5	7.4	0.199
6/2/2015	20:07:14	0	7.068	9.5	7.4	0.332
6/3/2015	0:07:14	0	6.712	9.4	7.4	0.688
6/3/2015	4:07:14	0	6.462	9.4	7.4	0.938
6/3/2015	8:07:14	0	6.341	9.4	7.4	1.059
6/3/2015	12:07:14	0	5.953	9.4	7.4	1.447
6/3/2015	16:07:14	0	5.699	9.4	7.4	1.701
6/3/2015	20:07:14	0	5.703	9.4	7.4	1.697
6/4/2015	0:07:14	0	5.802	9.4	7.4	1.598
6/4/2015	4:07:14	0	5.74	9.4	7.4	1.66
6/4/2015	8:07:14	0	5.748	9.4	7.4	1.652
6/4/2015	12:07:14	0	5.587	9.5	7.4	1.813
6/4/2015	16:07:14	0	5.372	9.5	7.4	2.028
6/4/2015	20:07:14	0	5.385	9.5	7.4	2.015
6/5/2015	0:07:14	0	5.459	9.5	7.4	1.941
6/5/2015	4:07:14	0	5.401	9.5	7.4	1.999
6/5/2015	8:07:14	0	5.43	9.5	7.4	1.97
6/5/2015	12:07:14	0	-0.076	23.7	7.4	7.476
6/5/2015	16:07:14	0	5.083	9.5	7.4	2.317
6/5/2015	20:07:14	0	5.154	9.5	7.4	2.246
6/6/2015	0:07:14	0	5.252	9.5	7.4	2.148
6/6/2015	4:07:14	0	5.235	9.5	7.4	2.165
6/6/2015	8:07:14	0	5.538	9.5	7.4	1.862
6/6/2015	12:07:14	0	5.547	9.5	7.4	1.853
6/6/2015	16:07:14	0	5.283	9.6	7.4	2.117
6/6/2015	20:07:14	0	5.331	9.6	7.4	2.069
6/7/2015	0:07:14	0	5.372	9.5	7.4	2.028
6/7/2015	4:07:14	0	5.359	9.5	7.4	2.041
6/7/2015	8:07:14	0	5.43	9.6	7.4	1.97
6/7/2015	12:07:14	0	5.092	9.6	7.4	2.308
6/7/2015	16:07:14	0	4.966	9.6	7.4	2.434
6/7/2015	20:07:14	0	5.021	9.6	7.4	2.379
6/8/2015	0:07:14	0	5.158	9.6	7.4	2.242
6/8/2015	4:07:14	0	4.975	9.6	7.4	2.425
6/8/2015	8:07:14	0	5.061	9.6	7.4	2.339
6/8/2015	12:07:14	0	5.013	9.6	7.4	2.387
6/8/2015	16:07:14	0	4.951	9.6	7.4	2.449
6/8/2015	20:07:14	0	5.081	9.6	7.4	2.319
6/9/2015	0:07:14	0	5.804	9.7	7.4	1.596
6/9/2015	4:07:14	0	5.818	9.7	7.4	1.582
6/9/2015	8:07:14	0	6.023	9.7	7.4	1.377
6/9/2015	12:07:14	0	5.956	9.7	7.4	1.444
6/9/2015	16:07:14	0	6.002	9.7	7.4	1.398
6/9/2015	20:07:14	0	6.823	9.8	7.4	0.577
6/10/2015	0:07:14	0	6.921	9.8	7.4	0.479
6/10/2015	4:07:14	0	6.768	9.8	7.4	0.632
6/10/2015	8:07:14	0	6.732	9.9	7.4	0.668
6/10/2015	12:07:14	0	6.269	9.9	7.4	1.131
6/10/2015	16:07:14	0	5.825	9.9	7.4	1.575
6/10/2015	20:07:14	0	5.689	9.8	7.4	1.711
6/11/2015	0:07:14	0	5.758	9.9	7.4	1.642
6/11/2015	4:07:14	0	5.671	9.9	7.4	1.729
6/11/2015	8:07:14	0	5.723	9.9	7.4	1.677
6/11/2015	12:07:14	0	5.572	9.9	7.4	1.828
6/11/2015	16:07:14	0	5.415	9.9	7.4	1.985
6/11/2015	20:07:14	0	5.446	9.9	7.4	1.954
6/12/2015	0:07:14	0	5.468	9.9	7.4	1.932
6/12/2015	4:07:14	0	5.363	9.9	7.4	2.037
6/12/2015	8:07:14	0	5.469	9.9	7.4	1.931
6/12/2015	12:07:14	0	5.111	9.9	7.4	2.289
6/12/2015	16:07:14	0	4.981	10	7.4	2.419
6/12/2015	20:07:14	0	5.015	10	7.4	2.385
6/13/2015	0:07:14	0	5.49	9.9	7.4	1.91
6/13/2015	4:07:14	0	5.66	10	7.4	1.74
6/13/2015	8:07:14	0	6.021	10.1	7.4	1.379
6/13/2015	12:07:14	0	5.737	10.1	7.4	1.663
6/13/2015	16:07:14	0	5.45	10.1	7.4	1.95
6/13/2015	20:07:14	0	5.34	10.1	7.4	2.06
6/14/2015	0:07:14	0	5.47	10	7.4	1.93
6/14/2015	4:07:14	0	5.396	10.1	7.4	2.004
6/14/2015	8:07:14	0	5.456	10.1	7.4	1.944
6/14/2015	12:07:14	0	5.21	10.1	7.4	2.19
6/14/2015	16:07:14	0	5.025	10.1	7.4	2.375
6/14/2015	20:07:14	0	5.091	10.1	7.4	2.309
6/15/2015	0:07:14	0	5.181	10.1	7.4	2.219
6/15/2015	4:07:14	0	5.173	10.1	7.4	2.227
6/15/2015	8:07:14	0	7.515	10.3	7.4	-0.115
6/15/2015	12:07:14	0	7.544	10.4	7.4	-0.144
6/15/2015	16:07:14	0	7.409	10.5	7.4	-0.009
6/15/2015	20:07:14	0	7.427	10.5	7.4	-0.027

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6/16/2015	0:07:14	0	7.362	10.5	7.4	0.038
6/16/2015	4:07:14	0	7.09	10.5	7.4	0.31
6/16/2015	8:07:14	0	6.944	10.6	7.4	0.456
6/16/2015	12:07:14	0	6.597	10.6	7.4	0.803
6/16/2015	16:07:14	0	6.424	10.5	7.4	0.976
6/16/2015	20:07:14	0	6.801	10.6	7.4	0.599
6/17/2015	0:07:14	0	6.736	10.6	7.4	0.664
6/17/2015	4:07:14	0	6.626	10.6	7.4	0.774
6/17/2015	8:07:14	0	6.513	10.6	7.4	0.887
6/17/2015	12:07:14	0	6.184	10.6	7.4	1.216
6/17/2015	16:07:14	0	5.822	10.6	7.4	1.578
6/17/2015	20:07:14	0	5.776	10.6	7.4	1.624
6/18/2015	0:07:14	0	5.869	10.6	7.4	1.531
6/18/2015	4:07:14	0	5.709	10.6	7.4	1.691
6/18/2015	8:07:14	0	5.772	10.6	7.4	1.628
6/18/2015	12:07:14	0	5.553	10.7	7.4	1.847
6/18/2015	16:07:14	0	5.386	10.7	7.4	2.014
6/18/2015	20:07:14	0	5.425	10.7	7.4	1.975
6/19/2015	0:07:14	0	5.491	10.7	7.4	1.909
6/19/2015	4:07:14	0	5.423	10.7	7.4	1.977
6/19/2015	8:07:14	0	5.537	10.7	7.4	1.863
6/19/2015	12:07:14	0	5.486	10.7	7.4	1.914
6/19/2015	16:07:14	0	5.357	10.7	7.4	2.043
6/19/2015	20:07:14	0	5.359	10.7	7.4	2.041
6/20/2015	0:07:14	0	5.431	10.7	7.4	1.969
6/20/2015	4:07:14	0	5.346	10.7	7.4	2.054
6/20/2015	8:07:14	0	5.345	10.7	7.4	2.055
6/20/2015	12:07:14	0	5.091	10.8	7.4	2.309
6/20/2015	16:07:14	0	5.051	10.8	7.4	2.349
6/20/2015	20:07:14	0	5.013	10.8	7.4	2.387
6/21/2015	0:07:14	0	5.065	10.8	7.4	2.335
6/21/2015	4:07:14	0	6.078	10.8	7.4	1.322
6/21/2015	8:07:14	0	7.256	11	7.4	0.144
6/21/2015	12:07:14	0	7.405	11	7.4	-0.005
6/21/2015	16:07:14	0	7.382	11.1	7.4	0.018
6/21/2015	20:07:14	0	7.466	11.1	7.4	-0.066
6/22/2015	0:07:14	0	7.463	11.1	7.4	-0.063
6/22/2015	4:07:14	0	7.229	11.1	7.4	0.171
6/22/2015	8:07:14	0	7.153	11.1	7.4	0.247
6/22/2015	12:07:14	0	6.688	11.1	7.4	0.712
6/22/2015	16:07:14	0	6.41	11.1	7.4	0.99
6/22/2015	20:07:14	0	6.125	11.1	7.4	1.275
6/23/2015	0:07:14	0	6.114	11.1	7.4	1.286
6/23/2015	4:07:14	0	5.975	11.1	7.4	1.425
6/23/2015	8:07:14	0	5.821	11.1	7.4	1.579
6/23/2015	12:07:14	0	6.012	11.1	7.4	1.388
6/23/2015	16:07:14	0	5.933	11.1	7.4	1.467
6/23/2015	20:07:14	0	5.977	11.1	7.4	1.423
6/24/2015	0:07:14	0	6.074	11.1	7.4	1.326
6/24/2015	4:07:14	0	5.911	11.1	7.4	1.489
6/24/2015	8:07:14	0	5.932	11.1	7.4	1.468
6/24/2015	12:07:14	0	5.694	11.2	7.4	1.706
6/24/2015	16:07:14	0	5.525	11.2	7.4	1.875
6/24/2015	20:07:14	0	5.545	11.1	7.4	1.855
6/25/2015	0:07:14	0	5.595	11.1	7.4	1.805
6/25/2015	4:07:14	0	5.5	11.1	7.4	1.9
6/25/2015	8:07:14	0	5.529	11.2	7.4	1.871
6/25/2015	12:07:14	0	5.335	11.2	7.4	2.065
6/25/2015	16:07:14	0	5.179	11.2	7.4	2.221
6/25/2015	20:07:14	0	5.251	11.2	7.4	2.149
6/26/2015	0:07:14	0	5.304	11.2	7.4	2.096
6/26/2015	4:07:14	0	5.292	11.2	7.4	2.108
6/26/2015	8:07:14	0	5.351	11.2	7.4	2.049
6/26/2015	12:07:14	0	5.212	11.3	7.4	2.188
6/26/2015	16:07:14	0	5.109	11.3	7.4	2.291
6/26/2015	20:07:14	0	5.213	11.3	7.4	2.187
6/27/2015	0:07:14	0	5.263	11.3	7.4	2.137
6/27/2015	4:07:14	0	5.182	11.3	7.4	2.218
6/27/2015	8:07:14	0	5.266	11.3	7.4	2.134
6/27/2015	12:07:14	0	5.018	11.3	7.4	2.382
6/27/2015	16:07:14	0	5.034	11.3	7.4	2.366
6/27/2015	20:07:14	0	4.976	11.3	7.4	2.424
6/28/2015	0:07:14	0	5.033	11.3	7.4	2.367
6/28/2015	4:07:14	0	5.393	11.3	7.4	2.007
6/28/2015	8:07:14	0	5.806	11.4	7.4	1.594
6/28/2015	12:07:14	0	5.877	11.4	7.4	1.523
6/28/2015	16:07:14	0	6.17	11.4	7.4	1.23
6/28/2015	20:07:14	0	6.295	11.4	7.4	1.105
6/29/2015	0:07:14	0	6.162	11.5	7.4	1.238
6/29/2015	4:07:14	0	6.187	11.5	7.4	1.213
6/29/2015	8:07:14	0	6.318	11.5	7.4	1.082
6/29/2015	12:07:14	0	6.224	11.5	7.4	1.176
6/29/2015	16:07:14	0	6.06	11.5	7.4	1.34
6/29/2015	20:07:14	0	6.179	11.5	7.4	1.221
6/30/2015	0:07:14	0	6.196	11.5	7.4	1.204
6/30/2015	4:07:14	0	6.056	11.5	7.4	1.344
6/30/2015	8:07:14	0	6.008	11.6	7.4	1.392

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6/30/2015	12:07:14	0	5.79	11.6	7.4	1.61
6/30/2015	16:07:14	0	5.782	11.6	7.4	1.618
6/30/2015	20:07:14	0	5.825	11.6	7.4	1.575
7/1/2015	0:07:14	0	5.809	11.6	7.4	1.591
7/1/2015	4:07:14	0	6.985	11.7	7.4	0.415
7/1/2015	8:07:14	0	7.379	11.7	7.4	0.021
7/1/2015	12:07:14	0	7.448	11.7	7.4	-0.048
7/1/2015	16:07:14	0	7.315	11.7	7.4	0.085
7/1/2015	20:07:14	0	7.648	11.8	7.4	-0.248
7/2/2015	0:07:14	0	7.608	11.7	7.4	-0.208
7/2/2015	4:07:14	0	7.416	11.8	7.4	-0.016
7/2/2015	8:07:14	0	7.463	11.8	7.4	-0.063
7/2/2015	12:07:14	0	7.347	11.8	7.4	0.053
7/2/2015	16:07:14	0	7.126	11.8	7.4	0.274
7/2/2015	20:07:14	0	6.816	11.8	7.4	0.584
7/3/2015	0:07:14	0	6.733	11.8	7.4	0.667
7/3/2015	4:07:14	0	6.625	11.8	7.4	0.775
7/3/2015	8:07:14	0	6.628	11.8	7.4	0.772
7/3/2015	12:07:14	0	6.314	11.8	7.4	1.086
7/3/2015	16:07:14	0	6.05	11.7	7.4	1.35
7/3/2015	20:07:14	0	5.968	11.7	7.4	1.432
7/4/2015	0:07:14	0	6.046	11.7	7.4	1.354
7/4/2015	4:07:14	0	5.921	11.7	7.4	1.479
7/4/2015	8:07:14	0	5.928	11.7	7.4	1.472
7/4/2015	12:07:14	0	5.996	11.7	7.4	1.404
7/4/2015	16:07:14	0	6.159	11.8	7.4	1.241
7/4/2015	20:07:14	0	6.033	11.8	7.4	1.367
7/5/2015	0:07:14	0	6.147	11.8	7.4	1.253
7/5/2015	4:07:14	0	6.054	11.8	7.4	1.346
7/5/2015	8:07:14	0	6.087	11.8	7.4	1.313
7/5/2015	12:07:14	0	5.871	11.8	7.4	1.529
7/5/2015	16:07:14	0	5.65	11.8	7.4	1.75
7/5/2015	20:07:14	0	5.606	11.8	7.4	1.794
7/6/2015	0:07:14	0	5.744	11.8	7.4	1.656
7/6/2015	4:07:14	0	5.636	11.8	7.4	1.764
7/6/2015	8:07:14	0	5.666	11.8	7.4	1.734
7/6/2015	12:07:14	0	5.496	11.8	7.4	1.904
7/6/2015	16:07:14	0	5.317	11.8	7.4	2.083
7/6/2015	20:07:14	0	5.305	11.8	7.4	2.095
7/7/2015	0:07:14	0	5.386	11.8	7.4	2.014
7/7/2015	4:07:14	0	5.362	11.8	7.4	2.038
7/7/2015	8:07:14	0	5.365	11.8	7.4	2.035
7/7/2015	12:07:14	0	5.234	11.8	7.4	2.166
7/7/2015	16:07:14	0	5.209	11.8	7.4	2.191
7/7/2015	20:07:14	0	5.314	11.8	7.4	2.086
7/8/2015	0:07:14	0	5.383	11.8	7.4	2.017
7/8/2015	4:07:14	0	5.272	11.8	7.4	2.128
7/8/2015	8:07:14	0	5.457	11.8	7.4	1.943
7/8/2015	12:07:14	0	5.439	11.8	7.4	1.961
7/8/2015	16:07:14	0	5.275	11.8	7.4	2.125
7/8/2015	20:07:14	0	5.349	11.8	7.4	2.051
7/9/2015	0:07:14	0	5.349	11.8	7.4	2.051
7/9/2015	4:07:14	0	5.35	11.8	7.4	2.05
7/9/2015	8:07:14	0	5.351	11.8	7.4	2.049
7/9/2015	12:07:14	0	5.196	11.8	7.4	2.204
7/9/2015	16:07:14	0	5.058	11.8	7.4	2.342
7/9/2015	20:07:14	0	5.129	11.8	7.4	2.271
7/10/2015	0:07:14	0	6.571	11.9	7.4	0.829
7/10/2015	4:07:14	0	7.457	12	7.4	-0.057
7/10/2015	8:07:14	0	7.638	12	7.4	-0.238
7/10/2015	12:07:14	0	7.385	12.1	7.4	0.015
7/10/2015	16:07:14	0	7.032	12.1	7.4	0.368
7/10/2015	20:07:14	0	6.861	12.1	7.4	0.539
7/11/2015	0:07:14	0	6.642	12.1	7.4	0.758
7/11/2015	4:07:14	0	6.446	12	7.4	0.954
7/11/2015	8:07:14	0	6.397	12	7.4	1.003
7/11/2015	12:07:14	0	6.039	12	7.4	1.361
7/11/2015	16:07:14	0	5.754	12	7.4	1.646
7/11/2015	20:07:14	0	5.702	12	7.4	1.698
7/12/2015	0:07:14	0	5.811	12	7.4	1.589
7/12/2015	4:07:14	0	5.687	12	7.4	1.713
7/12/2015	8:07:14	0	5.729	12	7.4	1.671
7/12/2015	12:07:14	0	5.558	12.1	7.4	1.842
7/12/2015	16:07:14	0	5.362	12.1	7.4	2.038
7/12/2015	20:07:14	0	5.397	12.1	7.4	2.003
7/13/2015	0:07:14	0	5.5	12.1	7.4	1.9
7/13/2015	4:07:14	0	5.403	12.1	7.4	1.997
7/13/2015	8:07:14	0	5.457	12.1	7.4	1.943
7/13/2015	12:07:14	0	5.358	12.1	7.4	2.042
7/13/2015	16:07:14	0	5.228	12.1	7.4	2.172
7/13/2015	20:07:14	0	5.375	12.1	7.4	2.025
7/14/2015	0:07:14	0	5.439	12.1	7.4	1.961
7/14/2015	4:07:14	0	5.347	12.1	7.4	2.053
7/14/2015	8:07:14	0	5.373	12.1	7.4	2.027
7/14/2015	12:07:14	0	5.268	12.2	7.4	2.132
7/14/2015	16:07:14	0	5.206	12.2	7.4	2.194
7/14/2015	20:07:14	0	5.234	12.2	7.4	2.166

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7/15/2015	0:07:14	0	5.368	12.2	7.4	2.032
7/15/2015	4:07:14	0	5.298	12.2	7.4	2.102
7/15/2015	8:07:14	0	5.47	12.2	7.4	1.93
7/15/2015	12:07:14	0	5.398	12.2	7.4	2.002
7/15/2015	16:07:14	0	5.336	12.2	7.4	2.064
7/15/2015	20:07:14	0	5.433	12.2	7.4	1.967
7/16/2015	0:07:14	0	5.478	12.2	7.4	1.922
7/16/2015	4:07:14	0	5.38	12.2	7.4	2.02
7/16/2015	8:07:14	0	5.5	12.2	7.4	1.9
7/16/2015	12:07:14	0	5.226	12.3	7.4	2.174
7/16/2015	16:07:14	0	5.122	12.3	7.4	2.278
7/16/2015	20:07:14	0	5.181	12.3	7.4	2.219
7/17/2015	0:07:14	0	5.278	12.3	7.4	2.122
7/17/2015	4:07:14	0	5.262	12.3	7.4	2.138
7/17/2015	8:07:14	0	5.282	12.3	7.4	2.118
7/17/2015	12:07:14	0	5.11	12.3	7.4	2.29
7/17/2015	16:07:14	0	4.975	12.4	7.4	2.425
7/17/2015	20:07:14	0	5.028	12.3	7.4	2.372
7/18/2015	0:07:14	0	5.11	12.4	7.4	2.29
7/18/2015	4:07:14	0	5.08	12.4	7.4	2.32
7/18/2015	8:07:14	0	5.182	12.4	7.4	2.218
7/18/2015	12:07:14	0	5.17	12.4	7.4	2.23
7/18/2015	16:07:14	0	5.099	12.4	7.4	2.301
7/18/2015	20:07:14	0	5.105	12.4	7.4	2.295
7/19/2015	0:07:14	0	5.335	12.4	7.4	2.065
7/19/2015	4:07:14	0	5.31	12.4	7.4	2.09
7/19/2015	8:07:14	0	5.331	12.4	7.4	2.069
7/19/2015	12:07:14	0	5.263	12.4	7.4	2.137
7/19/2015	16:07:14	0	5.174	12.5	7.4	2.226
7/19/2015	20:07:14	0	5.575	12.5	7.4	1.825
7/20/2015	0:07:14	0	5.553	12.5	7.4	1.847
7/20/2015	4:07:14	0	5.564	12.5	7.4	1.836
7/20/2015	8:07:14	0	5.669	12.5	7.4	1.731
7/20/2015	12:07:14	0	5.508	12.5	7.4	1.892
7/20/2015	16:07:14	0	5.4	12.5	7.4	2
7/20/2015	20:07:14	0	5.355	12.5	7.4	2.045
7/21/2015	0:07:14	0	5.416	12.5	7.4	1.984
7/21/2015	4:07:14	0	5.388	12.5	7.4	2.012
7/21/2015	8:07:14	0	5.385	12.5	7.4	2.015
7/21/2015	12:07:14	0	5.277	12.5	7.4	2.123
7/21/2015	16:07:14	0	5.151	12.6	7.4	2.249
7/21/2015	20:07:14	0	5.262	12.6	7.4	2.138
7/22/2015	0:07:14	0	5.334	12.6	7.4	2.066
7/22/2015	4:07:14	0	5.265	12.6	7.4	2.135
7/22/2015	8:07:14	0	5.363	12.6	7.4	2.037
7/22/2015	12:07:14	0	5.161	12.6	7.4	2.239
7/22/2015	16:07:14	0	5.035	12.6	7.4	2.365
7/22/2015	20:07:14	0	5.154	12.6	7.4	2.246
7/23/2015	0:07:14	0	5.222	12.6	7.4	2.178
7/23/2015	4:07:14	0	5.076	12.6	7.4	2.324
7/23/2015	8:07:14	0	5.137	12.6	7.4	2.263
7/23/2015	12:07:14	0	4.967	12.7	7.4	2.433
7/23/2015	16:07:14	0	4.809	12.7	7.4	2.591
7/23/2015	20:07:14	0	4.921	12.7	7.4	2.479
7/24/2015	0:07:14	0	5.012	12.7	7.4	2.388
7/24/2015	4:07:14	0	4.952	12.7	7.4	2.448
7/24/2015	8:07:14	0	4.991	12.7	7.4	2.409
7/24/2015	12:07:14	0	4.846	12.7	7.4	2.554
7/24/2015	16:07:14	0	4.687	12.7	7.4	2.713
7/24/2015	20:07:14	0	4.911	12.7	7.4	2.489
7/25/2015	0:07:14	0	4.893	12.7	7.4	2.507
7/25/2015	4:07:14	0	4.871	12.7	7.4	2.529
7/25/2015	8:07:14	0	4.939	12.8	7.4	2.461
7/25/2015	12:07:14	0	4.783	12.8	7.4	2.617
7/25/2015	16:07:14	0	4.638	12.8	7.4	2.762
7/25/2015	20:07:14	0	4.663	12.8	7.4	2.737
7/26/2015	0:07:14	0	4.79	12.8	7.4	2.61
7/26/2015	4:07:14	0	4.708	12.8	7.4	2.692
7/26/2015	8:07:14	0	4.758	12.8	7.4	2.642
7/26/2015	12:07:14	0	4.677	12.8	7.4	2.723
7/26/2015	16:07:14	0	4.605	12.9	7.4	2.795
7/26/2015	20:07:14	0	4.741	12.8	7.4	2.659
7/27/2015	0:07:14	0	4.786	12.8	7.4	2.614
7/27/2015	4:07:14	0	4.726	12.9	7.4	2.674
7/27/2015	8:07:14	0	4.819	12.9	7.4	2.581
7/27/2015	12:07:14	0	4.684	12.9	7.4	2.716
7/27/2015	16:07:14	0	4.509	12.9	7.4	2.891
7/27/2015	20:07:14	0	4.578	12.9	7.4	2.822
7/28/2015	0:07:14	0	4.659	12.9	7.4	2.741
7/28/2015	4:07:14	0	4.625	12.9	7.4	2.775
7/28/2015	8:07:14	0	4.676	12.9	7.4	2.724
7/28/2015	12:07:14	0	4.483	12.9	7.4	2.917
7/28/2015	16:07:14	0	4.421	13	7.4	2.979
7/28/2015	20:07:14	0	4.48	12.9	7.4	2.92
7/29/2015	0:07:14	0	4.585	12.9	7.4	2.815
7/29/2015	4:07:14	0	4.504	12.9	7.4	2.896
7/29/2015	8:07:14	0	4.605	12.9	7.4	2.795

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7/29/2015	12:07:14	0	4.435	13	7.4	2.965
7/29/2015	16:07:14	0	4.292	13	7.4	3.108
7/29/2015	20:07:14	0	4.322	13	7.4	3.078
7/30/2015	0:07:14	0	4.466	13	7.4	2.934
7/30/2015	4:07:14	0	4.411	13	7.4	2.989
7/30/2015	8:07:14	0	4.43	13	7.4	2.97
7/30/2015	12:07:14	0	4.323	13	7.4	3.077
7/30/2015	16:07:14	0	4.221	13	7.4	3.179
7/30/2015	20:07:14	0	4.422	13	7.4	2.978
7/31/2015	0:07:14	0	4.449	13	7.4	2.951
7/31/2015	4:07:14	0	4.37	13	7.4	3.03
7/31/2015	8:07:14	0	4.466	13	7.4	2.934
7/31/2015	12:07:14	0	4.304	13.1	7.4	3.096
7/31/2015	16:07:14	0	4.179	13.1	7.4	3.221
7/31/2015	20:07:14	0	4.192	13.1	7.4	3.208
8/1/2015	0:07:14	0	4.31	13.1	7.4	3.09
8/1/2015	4:07:14	0	4.211	13.1	7.4	3.189
8/1/2015	8:07:14	0	4.374	13.1	7.4	3.026
8/1/2015	12:07:14	0	4.338	13.1	7.4	3.062
8/1/2015	16:07:14	0	4.209	13.1	7.4	3.191
8/1/2015	20:07:14	0	4.312	13.1	7.4	3.088
8/2/2015	0:07:14	0	4.382	13.1	7.4	3.018
8/2/2015	4:07:14	0	4.308	13.1	7.4	3.092
8/2/2015	8:07:14	0	4.377	13.2	7.4	3.023
8/2/2015	12:07:14	0	4.285	13.2	7.4	3.115
8/2/2015	16:07:14	0	4.075	13.2	7.4	3.325
8/2/2015	20:07:14	0	4.124	13.2	7.4	3.276
8/3/2015	0:07:14	0	4.099	13.2	7.4	3.301
8/3/2015	4:07:14	0	4.137	13.2	7.4	3.263
8/3/2015	8:07:14	0	4.236	13.2	7.4	3.164
8/3/2015	12:07:14	0	4.036	13.3	7.4	3.364
8/3/2015	16:07:14	0	3.938	13.3	7.4	3.462
8/3/2015	20:07:14	0	4.113	13.3	7.4	3.287
8/4/2015	0:07:14	0	4.201	13.3	7.4	3.199
8/4/2015	4:07:14	0	4.117	13.3	7.4	3.283
8/4/2015	8:07:14	0	4.251	13.3	7.4	3.149
8/4/2015	12:07:14	0	4.195	13.3	7.4	3.205
8/4/2015	16:07:14	0	4.165	13.3	7.4	3.235
8/4/2015	20:07:14	0	4.258	13.3	7.4	3.142
8/5/2015	0:07:14	0	4.251	13.3	7.4	3.149
8/5/2015	4:07:14	0	4.154	13.3	7.4	3.246
8/5/2015	8:07:14	0	4.261	13.3	7.4	3.139
8/5/2015	12:07:14	0	4.098	13.3	7.4	3.302
8/5/2015	16:07:14	0	4.003	13.4	7.4	3.397
8/5/2015	20:07:14	0	4.131	13.3	7.4	3.269
8/6/2015	0:07:14	0	4.225	13.3	7.4	3.175
8/6/2015	4:07:14	0	4.134	13.3	7.4	3.266
8/6/2015	8:07:14	0	4.183	13.3	7.4	3.217
8/6/2015	12:07:14	0	4.099	13.4	7.4	3.301
8/6/2015	16:07:14	0	3.937	13.4	7.4	3.463
8/6/2015	20:07:14	0	3.992	13.4	7.4	3.408
8/7/2015	0:07:14	0	4.123	13.4	7.4	3.277
8/7/2015	4:07:14	0	4.049	13.4	7.4	3.351
8/7/2015	8:07:14	0	4.16	13.4	7.4	3.24
8/7/2015	12:07:14	0	4.032	13.4	7.4	3.368
8/7/2015	16:07:14	0	3.876	13.4	7.4	3.524
8/7/2015	20:07:14	0	3.973	13.4	7.4	3.427
8/8/2015	0:07:14	0	4.039	13.4	7.4	3.361
8/8/2015	4:07:14	0	4.004	13.4	7.4	3.396
8/8/2015	8:07:14	0	4.096	13.4	7.4	3.304
8/8/2015	12:07:14	0	3.976	13.4	7.4	3.424
8/8/2015	16:07:14	0	3.865	13.4	7.4	3.535
8/8/2015	20:07:14	0	3.916	13.4	7.4	3.484
8/9/2015	0:07:14	0	3.989	13.4	7.4	3.411
8/9/2015	4:07:14	0	3.927	13.4	7.4	3.473
8/9/2015	8:07:14	0	3.989	13.4	7.4	3.411
8/9/2015	12:07:14	0	3.882	13.5	7.4	3.518
8/9/2015	16:07:14	0	3.766	13.5	7.4	3.634
8/9/2015	20:07:14	0	3.836	13.5	7.4	3.564
8/10/2015	0:07:14	0	3.893	13.5	7.4	3.507
8/10/2015	4:07:14	0	3.871	13.5	7.4	3.529
8/10/2015	8:07:14	0	3.957	13.5	7.4	3.443
8/10/2015	12:07:14	0	3.771	13.5	7.4	3.629
8/10/2015	16:07:14	0	3.686	13.5	7.4	3.714
8/10/2015	20:07:14	0	3.706	13.5	7.4	3.694
8/11/2015	0:07:14	0	3.763	13.5	7.4	3.637
8/11/2015	4:07:14	0	3.654	13.5	7.4	3.746
8/11/2015	8:07:14	0	3.699	13.5	7.4	3.701
8/11/2015	12:07:14	0	3.912	13.5	7.4	3.488
8/11/2015	16:07:14	0	4.164	13.5	7.4	3.236
8/11/2015	20:07:14	0	4.366	13.5	7.4	3.034
8/12/2015	0:07:14	0	4.386	13.5	7.4	3.014
8/12/2015	4:07:14	0	4.364	13.5	7.4	3.036
8/12/2015	8:07:14	0	4.462	13.5	7.4	2.938
8/12/2015	12:07:14	0	4.357	13.5	7.4	3.043
8/12/2015	16:07:14	0	4.238	13.5	7.4	3.162
8/12/2015	20:07:14	0	4.445	13.5	7.4	2.955

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8/13/2015	0:07:14	0	4.49	13.5	7.4	2.91
8/13/2015	4:07:14	0	4.424	13.5	7.4	2.976
8/13/2015	8:07:14	0	4.515	13.5	7.4	2.885
8/13/2015	12:07:14	0	4.41	13.5	7.4	2.99
8/13/2015	16:07:14	0	4.207	13.5	7.4	3.193
8/13/2015	20:07:14	0	4.311	13.5	7.4	3.089
8/14/2015	0:07:14	0	4.46	13.5	7.4	2.94
8/14/2015	4:07:14	0	4.321	13.5	7.4	3.079
8/14/2015	8:07:14	0	4.405	13.5	7.4	2.995
8/14/2015	12:07:14	0	4.255	13.5	7.4	3.145
8/14/2015	16:07:14	0	4.053	13.5	7.4	3.347
8/14/2015	20:07:14	0	4.152	13.5	7.4	3.248
8/15/2015	0:07:14	0	4.252	13.5	7.4	3.148
8/15/2015	4:07:14	0	4.153	13.5	7.4	3.247
8/15/2015	8:07:14	0	4.265	13.5	7.4	3.135
8/15/2015	12:07:14	0	4.118	13.6	7.4	3.282
8/15/2015	16:07:14	0	3.972	13.6	7.4	3.428
8/15/2015	20:07:14	0	4.176	13.5	7.4	3.224
8/16/2015	0:07:14	0	4.267	13.5	7.4	3.133
8/16/2015	4:07:14	0	4.202	13.5	7.4	3.198
8/16/2015	8:07:14	0	4.216	13.5	7.4	3.184
8/16/2015	12:07:14	0	4.145	13.6	7.4	3.255
8/16/2015	16:07:14	0	3.959	13.6	7.4	3.441
8/16/2015	20:07:14	0	4.012	13.6	7.4	3.388
8/17/2015	0:07:14	0	4.164	13.6	7.4	3.236
8/17/2015	4:07:14	0	4.062	13.6	7.4	3.338
8/17/2015	8:07:14	0	4.156	13.6	7.4	3.244
8/17/2015	12:07:14	0	3.977	13.6	7.4	3.423
8/17/2015	16:07:14	0	3.854	13.6	7.4	3.546
8/17/2015	20:07:14	0	3.892	13.6	7.4	3.508
8/18/2015	0:07:14	0	4.023	13.6	7.4	3.377
8/18/2015	4:07:14	0	3.988	13.6	7.4	3.412
8/18/2015	8:07:14	0	4.033	13.6	7.4	3.367
8/18/2015	12:07:14	0	3.878	13.6	7.4	3.522
8/18/2015	16:07:14	0	3.746	13.6	7.4	3.654
8/18/2015	20:07:14	0	3.904	13.6	7.4	3.496
8/19/2015	0:07:14	0	3.924	13.6	7.4	3.476
8/19/2015	4:07:14	0	3.927	13.6	7.4	3.473
8/19/2015	8:07:14	0	3.986	13.6	7.4	3.414
8/19/2015	12:07:14	0	3.813	13.7	7.4	3.587
8/19/2015	16:07:14	0	3.71	13.7	7.4	3.69
8/19/2015	20:07:14	0	3.776	13.7	7.4	3.624
8/20/2015	0:07:14	0	3.877	13.7	7.4	3.523
8/20/2015	4:07:14	0	3.775	13.7	7.4	3.625
8/20/2015	8:07:14	0	3.85	13.7	7.4	3.55
8/20/2015	12:07:14	0	3.74	13.7	7.4	3.66
8/20/2015	16:07:14	0	3.598	13.7	7.4	3.802
8/20/2015	20:07:14	0	3.678	13.7	7.4	3.722
8/21/2015	0:07:14	0	3.745	13.7	7.4	3.655
8/21/2015	4:07:14	0	3.693	13.7	7.4	3.707
8/21/2015	8:07:14	0	3.982	13.7	7.4	3.418
8/21/2015	12:07:14	0	3.888	13.7	7.4	3.512
8/21/2015	16:07:14	0	3.826	13.7	7.4	3.574
8/21/2015	20:07:14	0	3.91	13.7	7.4	3.49
8/22/2015	0:07:14	0	3.956	13.7	7.4	3.444
8/22/2015	4:07:14	0	3.894	13.7	7.4	3.506
8/22/2015	8:07:14	0	3.965	13.8	7.4	3.435
8/22/2015	12:07:14	0	3.82	13.8	7.4	3.58
8/22/2015	16:07:14	0	3.684	13.8	7.4	3.716
8/22/2015	20:07:14	0	3.75	13.8	7.4	3.65
8/23/2015	0:07:14	0	3.794	13.8	7.4	3.606
8/23/2015	4:07:14	0	3.764	13.8	7.4	3.636
8/23/2015	8:07:14	0	3.828	13.8	7.4	3.572
8/23/2015	12:07:14	0	3.66	13.8	7.4	3.74
8/23/2015	16:07:14	0	3.644	13.8	7.4	3.756
8/23/2015	20:07:14	0	3.635	13.8	7.4	3.765
8/24/2015	0:07:14	0	3.743	13.8	7.4	3.657
8/24/2015	4:07:14	0	3.67	13.8	7.4	3.73
8/24/2015	8:07:14	0	3.823	13.9	7.4	3.577
8/24/2015	12:07:14	0	3.601	13.9	7.4	3.799
8/24/2015	16:07:14	0	3.531	13.9	7.4	3.869
8/24/2015	20:07:14	0	3.599	13.9	7.4	3.801
8/25/2015	0:07:14	0	3.761	13.9	7.4	3.639
8/25/2015	4:07:14	0	3.655	13.9	7.4	3.745
8/25/2015	8:07:14	0	3.83	13.9	7.4	3.57
8/25/2015	12:07:14	0	3.958	13.9	7.4	3.442
8/25/2015	16:07:14	0	3.835	13.9	7.4	3.565
8/25/2015	20:07:14	0	4.02	13.9	7.4	3.38
8/26/2015	0:07:14	0	4.087	13.9	7.4	3.313
8/26/2015	4:07:14	0	3.999	13.9	7.4	3.401
8/26/2015	8:07:14	0	4.056	13.9	7.4	3.344
8/26/2015	12:07:14	0	3.961	14	7.4	3.439
8/26/2015	16:07:14	0	3.798	14	7.4	3.602
8/26/2015	20:07:14	0	3.919	14	7.4	3.481
8/27/2015	0:07:14	0	4.04	14	7.4	3.36
8/27/2015	4:07:14	0	3.905	14	7.4	3.495
8/27/2015	8:07:14	0	4.086	14	7.4	3.314

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8/27/2015	12:07:14	0	3.992	14	7.4	3.408
8/27/2015	16:07:14	0	3.825	14	7.4	3.575
8/27/2015	20:07:14	0	3.962	14	7.4	3.438
8/28/2015	0:07:14	0	4.035	14	7.4	3.365
8/28/2015	4:07:14	0	3.942	14	7.4	3.458
8/28/2015	8:07:14	0	4.012	14	7.4	3.388
8/28/2015	12:07:14	0	3.96	14	7.4	3.44
8/28/2015	16:07:14	0	3.728	14	7.4	3.672
8/28/2015	20:07:14	0	3.895	14	7.4	3.505
8/29/2015	0:07:14	0	3.923	14	7.4	3.477
8/29/2015	4:07:14	0	3.862	14	7.4	3.538
8/29/2015	8:07:14	0	3.959	14	7.4	3.441
8/29/2015	12:07:14	0	3.839	14	7.4	3.561
8/29/2015	16:07:14	0	3.61	14.1	7.4	3.79
8/29/2015	20:07:14	0	3.718	14	7.4	3.682
8/30/2015	0:07:14	0	3.804	14	7.4	3.596
8/30/2015	4:07:14	0	3.756	14	7.4	3.644
8/30/2015	8:07:14	0	3.892	14	7.4	3.508
8/30/2015	12:07:14	0	3.781	14.1	7.4	3.619
8/30/2015	16:07:14	0	3.596	14.1	7.4	3.804
8/30/2015	20:07:14	0	3.691	14.1	7.4	3.709
8/31/2015	0:07:14	0	3.734	14.1	7.4	3.666
8/31/2015	4:07:14	0	3.7	14.1	7.4	3.7
8/31/2015	8:07:14	0	3.788	14.1	7.4	3.612
8/31/2015	12:07:14	0	3.663	14.1	7.4	3.737
8/31/2015	16:07:14	0	3.502	14.1	7.4	3.898
8/31/2015	20:07:14	0	3.702	14.1	7.4	3.698
9/1/2015	0:07:14	0	3.719	14.1	7.4	3.681
9/1/2015	4:07:14	0	3.733	14.1	7.4	3.667
9/1/2015	8:07:14	0	3.785	14.1	7.4	3.615
9/1/2015	12:07:14	0	3.658	14.1	7.4	3.742
9/1/2015	16:07:14	0	3.484	14.1	7.4	3.916
9/1/2015	20:07:14	0	3.58	14.1	7.4	3.82
9/2/2015	0:07:14	0	3.657	14.1	7.4	3.743
9/2/2015	4:07:14	0	3.569	14.1	7.4	3.831
9/2/2015	8:07:14	0	3.673	14.1	7.4	3.727
9/2/2015	12:07:14	0	3.533	14.1	7.4	3.867
9/2/2015	16:07:14	0	3.366	14.1	7.4	4.034
9/2/2015	20:07:14	0	3.458	14.1	7.4	3.942
9/3/2015	0:07:14	0	3.556	14.1	7.4	3.844
9/3/2015	4:07:14	0	3.536	14.1	7.4	3.864
9/3/2015	8:07:14	0	3.686	14	7.4	3.714
9/3/2015	12:07:14	0	3.507	14.1	7.4	3.893
9/3/2015	16:07:14	0	3.381	14.1	7.4	4.019
9/3/2015	20:07:14	0	3.539	14.1	7.4	3.861
9/4/2015	0:07:14	0	3.645	14.1	7.4	3.755
9/4/2015	4:07:14	0	3.616	14.1	7.4	3.784
9/4/2015	8:07:14	0	3.801	14.1	7.4	3.599
9/4/2015	12:07:14	0	3.608	14.1	7.4	3.792
9/4/2015	16:07:14	0	3.417	14.1	7.4	3.983
9/4/2015	20:07:14	0	3.537	14.1	7.4	3.863
9/5/2015	0:07:14	0	3.581	14.1	7.4	3.819
9/5/2015	4:07:14	0	3.492	14.1	7.4	3.908
9/5/2015	8:07:14	0	3.663	14.1	7.4	3.737
9/5/2015	12:07:14	0	3.417	14.1	7.4	3.983
9/5/2015	16:07:14	0	3.239	14.1	7.4	4.161
9/5/2015	20:07:14	0	3.384	14.1	7.4	4.016
9/6/2015	0:07:14	0	3.43	14.1	7.4	3.97
9/6/2015	4:07:14	0	3.461	14.1	7.4	3.939
9/6/2015	8:07:14	0	3.521	14.1	7.4	3.879
9/6/2015	12:07:14	0	3.38	14.1	7.4	4.02
9/6/2015	16:07:14	0	3.195	14.1	7.4	4.205
9/6/2015	20:07:14	0	3.268	14.1	7.4	4.132
9/7/2015	0:07:14	0	3.38	14.1	7.4	4.02
9/7/2015	4:07:14	0	3.347	14.1	7.4	4.053
9/7/2015	8:07:14	0	3.472	14.1	7.4	3.928
9/7/2015	12:07:14	0	3.286	14.1	7.4	4.114
9/7/2015	16:07:14	0	3.112	14.1	7.4	4.288
9/7/2015	20:07:14	0	3.222	14.1	7.4	4.178
9/8/2015	0:07:14	0	3.382	14.1	7.4	4.018
9/8/2015	4:07:14	0	3.366	14.1	7.4	4.034
9/8/2015	8:07:14	0	3.446	14.1	7.4	3.954
9/8/2015	12:07:14	0	3.269	14.1	7.4	4.131
9/8/2015	16:07:14	0	3.084	14.1	7.4	4.316
9/8/2015	20:07:14	0	3.217	14.1	7.4	4.183
9/9/2015	0:07:14	0	3.328	14.1	7.4	4.072
9/9/2015	4:07:14	0	3.275	14.1	7.4	4.125
9/9/2015	8:07:14	0	3.348	14.1	7.4	4.052
9/9/2015	12:07:14	0	3.165	14.1	7.4	4.235
9/9/2015	16:07:14	0	3.068	14.1	7.4	4.332
9/9/2015	20:07:14	0	3.349	14.1	7.4	4.051
9/10/2015	0:07:14	0	3.46	14.1	7.4	3.94
9/10/2015	4:07:14	0	3.347	14.1	7.4	4.053
9/10/2015	8:07:14	0	3.462	14.1	7.4	3.938
9/10/2015	12:07:14	0	3.43	14.1	7.4	3.97
9/10/2015	16:07:14	0	3.246	14.1	7.4	4.154
9/10/2015	20:07:14	0	3.364	14.1	7.4	4.036

Ground Water Level Data - 2015
Replication Area E - Well #1
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area E - Well #1
Pittsfield Airport, Pittsfield, MA

9/11/2015	0:07:14	0	3.489	14.1	7.4	3.911
9/11/2015	4:07:14	0	3.51	14.1	7.4	3.89
9/11/2015	8:07:14	0	3.699	14.1	7.4	3.701
9/11/2015	12:07:14	0	3.643	14.1	7.4	3.757
9/11/2015	16:07:14	0	3.524	14.1	7.4	3.876
9/11/2015	20:07:14	0	3.652	14.1	7.4	3.748
9/12/2015	0:07:14	0	3.67	14.1	7.4	3.73
9/12/2015	4:07:14	0	3.599	14.1	7.4	3.801
9/12/2015	8:07:14	0	3.653	14.1	7.4	3.747
9/12/2015	12:07:14	0	3.53	14.1	7.4	3.87
9/12/2015	16:07:14	0	3.411	14.1	7.4	3.989
9/12/2015	20:07:14	0	3.678	14.1	7.4	3.722
9/13/2015	0:07:14	0	3.838	14.1	7.4	3.562
9/13/2015	4:07:14	0	4.039	14.1	7.4	3.361
9/13/2015	8:07:14	0	4.28	14.1	7.4	3.12
9/13/2015	12:07:14	0	4.317	14.1	7.4	3.083
9/13/2015	16:07:14	0	4.237	14.1	7.4	3.163
9/13/2015	20:07:14	0	4.416	14.1	7.4	2.984
9/14/2015	0:07:14	0	4.417	14.1	7.4	2.983
9/14/2015	4:07:14	0	4.39	14.1	7.4	3.01
9/14/2015	8:07:14	0	4.489	14.1	7.4	2.911
9/14/2015	12:07:14	0	4.528	14.1	7.4	2.872
9/14/2015	16:07:14	0	4.511	14.1	7.4	2.889
9/14/2015	20:07:14	0	4.517	14.1	7.4	2.883
9/15/2015	0:07:14	0	4.515	14.2	7.4	2.885
9/15/2015	4:07:14	0	4.506	14.2	7.4	2.894
9/15/2015	8:07:14	0	4.496	14.2	7.4	2.904
9/15/2015	12:07:14	0	4.394	14.2	7.4	3.006
9/15/2015	16:07:14	0	4.202	14.2	7.4	3.198
9/15/2015	20:07:14	0	4.329	14.2	7.4	3.071
9/16/2015	0:07:14	0	4.355	14.2	7.4	3.045
9/16/2015	4:07:14	0	4.295	14.2	7.4	3.105
9/16/2015	8:07:14	0	4.359	14.2	7.4	3.041
9/16/2015	12:07:14	0	4.24	14.2	7.4	3.16
9/16/2015	16:07:14	0	4.046	14.2	7.4	3.354
9/16/2015	20:07:14	0	4.141	14.2	7.4	3.259
9/17/2015	0:07:14	0	4.222	14.2	7.4	3.178
9/17/2015	4:07:14	0	4.143	14.2	7.4	3.257
9/17/2015	8:07:14	0	4.219	14.2	7.4	3.181
9/17/2015	12:07:14	0	4.111	14.2	7.4	3.289
9/17/2015	16:07:14	0	3.947	14.2	7.4	3.453
9/17/2015	20:07:14	0	4.101	14.2	7.4	3.299
9/18/2015	0:07:14	0	4.138	14.2	7.4	3.262
9/18/2015	4:07:14	0	4.097	14.2	7.4	3.303
9/18/2015	8:07:14	0	4.214	14.2	7.4	3.186
9/18/2015	12:07:14	0	4.073	14.2	7.4	3.327
9/18/2015	16:07:14	0	3.92	14.2	7.4	3.48
9/18/2015	20:07:14	0	4.062	14.2	7.4	3.338
9/19/2015	0:07:14	0	4.117	14.2	7.4	3.283
9/19/2015	4:07:14	0	3.984	14.2	7.4	3.416
9/19/2015	8:07:14	0	4.109	14.2	7.4	3.291
9/19/2015	12:07:14	0	3.961	14.2	7.4	3.439
9/19/2015	16:07:14	0	3.84	14.2	7.4	3.56
9/19/2015	20:07:14	0	3.905	14.2	7.4	3.495
9/20/2015	0:07:14	0	3.987	14.2	7.4	3.413
9/20/2015	4:07:14	0	4.143	14.2	7.4	3.257
9/20/2015	8:07:14	0	4.165	14.2	7.4	3.235
9/20/2015	12:07:14	0	4.119	14.2	7.4	3.281
9/20/2015	16:07:14	0	3.873	14.2	7.4	3.527
9/20/2015	20:07:14	0	4.041	14.1	7.4	3.359
9/21/2015	0:07:14	0	4.018	14.1	7.4	3.382
9/21/2015	4:07:14	0	4.008	14.1	7.4	3.392
9/21/2015	8:07:14	0	4.097	14.1	7.4	3.303
9/21/2015	12:07:14	0	4.024	14.1	7.4	3.376
9/21/2015	16:07:14	0	3.891	14.1	7.4	3.509
9/21/2015	20:07:14	0	3.937	14.1	7.4	3.463
9/22/2015	0:07:14	0	3.931	14.1	7.4	3.469
9/22/2015	4:07:14	0	3.925	14.1	7.4	3.475
9/22/2015	8:07:14	0	4.01	14.1	7.4	3.39
9/22/2015	12:07:14	0	3.901	14.1	7.4	3.499
9/22/2015	16:07:14	0	3.78	14.1	7.4	3.62
9/22/2015	20:07:14	0	3.858	14.1	7.4	3.542
9/23/2015	0:07:14	0	3.857	14.1	7.4	3.543
9/23/2015	4:07:14	0	3.836	14.1	7.4	3.564
9/23/2015	8:07:14	0	3.92	14.1	7.4	3.48
9/23/2015	12:07:14	0	3.835	14.1	7.4	3.565
9/23/2015	16:07:14	0	3.712	14.1	7.4	3.688
9/23/2015	20:07:14	0	3.829	14.1	7.4	3.571
9/24/2015	0:07:14	0	3.84	14.1	7.4	3.56
9/24/2015	4:07:14	0	3.861	14.1	7.4	3.539
9/24/2015	8:07:14	0	3.923	14.1	7.4	3.477
9/24/2015	12:07:14	0	3.859	14.1	7.4	3.541
9/24/2015	16:07:14	0	3.672	14.1	7.4	3.728
9/24/2015	20:07:14	0	3.796	14.1	7.4	3.604
9/25/2015	0:07:14	0	3.839	14.1	7.4	3.561
9/25/2015	4:07:14	0	3.734	14.1	7.4	3.666
9/25/2015	8:07:14	0	3.816	14.1	7.4	3.584

Ground Water Level Data - 2015
Replication Area E - Well #1
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area E - Well #1
Pittsfield Airport, Pittsfield, MA

9/25/2015	12:07:14	0	3.781	14.1	7.4	3.619
9/25/2015	16:07:14	0	3.57	14	7.4	3.83
9/25/2015	20:07:14	0	3.717	14	7.4	3.683
9/26/2015	0:07:14	0	3.737	14	7.4	3.663
9/26/2015	4:07:14	0	3.762	14	7.4	3.638
9/26/2015	8:07:14	0	3.849	14	7.4	3.551
9/26/2015	12:07:14	0	3.784	14	7.4	3.616
9/26/2015	16:07:14	0	3.527	14	7.4	3.873
9/26/2015	20:07:14	0	3.689	14	7.4	3.711
9/27/2015	0:07:14	0	3.699	14	7.4	3.701
9/27/2015	4:07:14	0	3.613	14	7.4	3.787
9/27/2015	8:07:14	0	3.71	14	7.4	3.69
9/27/2015	12:07:14	0	3.607	14	7.4	3.793
9/27/2015	16:07:14	0	3.402	14	7.4	3.998
9/27/2015	20:07:14	0	3.565	13.9	7.4	3.835
9/28/2015	0:07:14	0	3.623	13.9	7.4	3.777
9/28/2015	4:07:14	0	3.533	13.9	7.4	3.867
9/28/2015	8:07:14	0	3.631	13.9	7.4	3.769
9/28/2015	12:07:14	0	3.564	13.9	7.4	3.836
9/28/2015	16:07:14	0	3.371	13.9	7.4	4.029
9/28/2015	20:07:14	0	3.494	13.9	7.4	3.906
9/29/2015	0:07:14	0	3.525	13.9	7.4	3.875
9/29/2015	4:07:14	0	3.514	13.9	7.4	3.886
9/29/2015	8:07:14	0	3.575	13.9	7.4	3.825
9/29/2015	12:07:14	0	3.467	13.9	7.4	3.933
9/29/2015	16:07:14	0	3.418	13.9	7.4	3.982
9/29/2015	20:07:14	0	3.536	13.8	7.4	3.864
9/30/2015	0:07:14	0	3.555	13.8	7.4	3.845
9/30/2015	4:07:14	0	3.476	13.8	7.4	3.924
9/30/2015	8:07:14	0	5.017	13.8	7.4	2.383
9/30/2015	12:07:14	0	7.531	14	7.4	-0.131
9/30/2015	16:07:14	0	7.486	14.1	7.4	-0.086
9/30/2015	20:07:14	0	7.364	14.1	7.4	0.036
10/1/2015	0:07:14	0	6.703	14	7.4	0.697
10/1/2015	4:07:14	0	6.202	13.9	7.4	1.198
10/1/2015	8:07:14	0	5.991	13.9	7.4	1.409
10/1/2015	12:07:14	0	5.71	13.9	7.4	1.69
10/1/2015	16:07:14	0	5.505	13.9	7.4	1.895
10/1/2015	20:07:14	0	5.542	13.8	7.4	1.858
10/2/2015	0:07:14	0	5.378	13.8	7.4	2.022
10/2/2015	4:07:14	0	5.24	13.8	7.4	2.16
10/2/2015	8:07:14	0	5.219	13.8	7.4	2.181
10/2/2015	12:07:14	0	5.11	13.8	7.4	2.29
10/2/2015	16:07:14	0	4.997	13.8	7.4	2.403
10/2/2015	20:07:14	0	4.94	13.8	7.4	2.46
10/3/2015	0:07:14	0	4.855	13.8	7.4	2.545
10/3/2015	4:07:14	0	4.744	13.8	7.4	2.656
10/3/2015	8:07:14	0	4.858	13.8	7.4	2.542
10/3/2015	12:07:14	0	4.712	13.8	7.4	2.688
10/3/2015	16:07:14	0	4.617	13.8	7.4	2.783
10/3/2015	20:07:14	0	4.62	13.7	7.4	2.78
10/4/2015	0:07:14	0	4.545	13.7	7.4	2.855
10/4/2015	4:07:14	0	4.462	13.7	7.4	2.938
10/4/2015	8:07:14	0	4.538	13.7	7.4	2.862
10/4/2015	12:07:14	0	4.372	13.7	7.4	3.028
10/4/2015	16:07:14	0	4.251	13.7	7.4	3.149
10/4/2015	20:07:14	0	4.339	13.7	7.4	3.061
10/5/2015	0:07:14	0	4.372	13.7	7.4	3.028
10/5/2015	4:07:14	0	4.308	13.7	7.4	3.092
10/5/2015	8:07:14	0	4.356	13.7	7.4	3.044
10/5/2015	12:07:14	0	4.291	13.7	7.4	3.109
10/5/2015	16:07:14	0	4.129	13.7	7.4	3.271
10/5/2015	20:07:14	0	4.243	13.7	7.4	3.157
10/6/2015	0:07:14	0	4.249	13.7	7.4	3.151
10/6/2015	4:07:14	0	4.197	13.7	7.4	3.203
10/6/2015	8:07:14	0	4.275	13.7	7.4	3.125

AVERAGE LEVEL ABOVE LOGGER	**4.897864**

AVERAGE GW DEPTH BELOW GROUND EL	**2.502136**
MINIMUM	-0.248
MAXIMUM	7.476
# of readings less than 2.1'	334

Ground Water Level Data - 2015
Replication Area E - Well #1
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area E - Well #2
Pittsfield Airport, Pittsfield, MA

Serial_number:
2046044
Project ID:
Pittsfield RW 8-26 RSA Project
Location:
Replication Area E - Well #2
LEVEL
UNIT: ft
Offset: 0.000000 ft
TEMPERATURE
UNIT: °C

Date	Time	ms	Water Level	Water Temp	Ground Level	Ground Water Depth
4/21/2015	15:07:36	0	3.633	6.8	3.91	0.277
4/21/2015	19:07:36	0	3.704	7.1	3.91	0.206
4/21/2015	23:07:36	0	3.614	7.3	3.91	0.296
4/22/2015	3:07:36	0	3.459	7.3	3.91	0.451
4/22/2015	7:07:36	0	3.267	7.1	3.91	0.643
4/22/2015	11:07:36	0	2.948	6.9	3.91	0.962
4/22/2015	15:07:36	0	2.686	6.8	3.91	1.224
4/22/2015	19:07:36	0	3.617	6.9	3.91	0.293
4/22/2015	23:07:36	0	4.037	7	3.91	-0.127
4/23/2015	3:07:36	0	3.825	6.9	3.91	0.085
4/23/2015	7:07:36	0	3.98	6.7	3.91	-0.07
4/23/2015	11:07:36	0	3.877	6.5	3.91	0.033
4/23/2015	15:07:36	0	3.826	6.5	3.91	0.084
4/23/2015	19:07:36	0	3.895	6.6	3.91	0.015
4/23/2015	23:07:36	0	3.766	6.6	3.91	0.144
4/24/2015	3:07:36	0	3.714	6.5	3.91	0.196
4/24/2015	7:07:36	0	3.597	6.3	3.91	0.313
4/24/2015	11:07:36	0	3.412	6.3	3.91	0.498
4/24/2015	15:07:36	0	3.225	6.2	3.91	0.685
4/24/2015	19:07:36	0	3.098	6.2	3.91	0.812
4/24/2015	23:07:36	0	2.926	6.2	3.91	0.984
4/25/2015	3:07:36	0	2.739	6.2	3.91	1.171
4/25/2015	7:07:36	0	2.787	6.2	3.91	1.123
4/25/2015	11:07:36	0	2.576	6.1	3.91	1.334
4/25/2015	15:07:36	0	2.391	6.1	3.91	1.519
4/25/2015	19:07:36	0	2.436	6.1	3.91	1.474
4/25/2015	23:07:36	0	2.457	6.1	3.91	1.453
4/26/2015	3:07:36	0	2.341	6.1	3.91	1.569
4/26/2015	7:07:36	0	2.438	6.1	3.91	1.472
4/26/2015	11:07:36	0	2.339	6.1	3.91	1.571
4/26/2015	15:07:36	0	2.249	6.1	3.91	1.661
4/26/2015	19:07:36	0	2.268	6.1	3.91	1.642
4/26/2015	23:07:36	0	2.26	6.1	3.91	1.65
4/27/2015	3:07:36	0	2.22	6.1	3.91	1.69
4/27/2015	7:07:36	0	2.236	6.1	3.91	1.674
4/27/2015	11:07:36	0	2.187	6.1	3.91	1.723
4/27/2015	15:07:36	0	2.098	6.1	3.91	1.812
4/27/2015	19:07:36	0	2.197	6.1	3.91	1.713
4/27/2015	23:07:36	0	2.12	6.2	3.91	1.79
4/28/2015	3:07:36	0	2.108	6.2	3.91	1.802
4/28/2015	7:07:36	0	2.204	6.2	3.91	1.706
4/28/2015	11:07:36	0	2.044	6.2	3.91	1.866
4/28/2015	15:07:36	0	1.872	6.2	3.91	2.038
4/28/2015	19:07:36	0	1.949	6.2	3.91	1.961
4/28/2015	23:07:36	0	1.89	6.2	3.91	2.02
4/29/2015	3:07:36	0	1.939	6.2	3.91	1.971
4/29/2015	7:07:36	0	2.028	6.2	3.91	1.882
4/29/2015	11:07:36	0	1.871	6.2	3.91	2.039
4/29/2015	15:07:36	0	1.813	6.3	3.91	2.097
4/29/2015	19:07:36	0	1.878	6.3	3.91	2.032
4/29/2015	23:07:36	0	1.948	6.3	3.91	1.962
4/30/2015	3:07:36	0	1.834	6.3	3.91	2.076
4/30/2015	7:07:36	0	1.966	6.3	3.91	1.944
4/30/2015	11:07:36	0	1.82	6.3	3.91	2.09
4/30/2015	15:07:36	0	1.789	6.4	3.91	2.121
4/30/2015	19:07:36	0	1.838	6.4	3.91	2.072
4/30/2015	23:07:36	0	1.88	6.4	3.91	2.03
5/1/2015	3:07:36	0	1.858	6.4	3.91	2.052
5/1/2015	7:07:36	0	1.865	6.4	3.91	2.045
5/1/2015	11:07:36	0	1.746	6.5	3.91	2.164
5/1/2015	15:07:36	0	1.719	6.5	3.91	2.191
5/1/2015	19:07:36	0	1.767	6.5	3.91	2.143
5/1/2015	23:07:36	0	1.802	6.5	3.91	2.108
5/2/2015	3:07:36	0	1.78	6.6	3.91	2.13
5/2/2015	7:07:36	0	1.825	6.6	3.91	2.085
5/2/2015	11:07:36	0	1.686	6.6	3.91	2.224
5/2/2015	15:07:36	0	1.605	6.7	3.91	2.305
5/2/2015	19:07:36	0	1.685	6.7	3.91	2.225
5/2/2015	23:07:36	0	1.765	6.7	3.91	2.145
5/3/2015	3:07:36	0	1.717	6.7	3.91	2.193
5/3/2015	7:07:36	0	1.8	6.7	3.91	2.11
5/3/2015	11:07:36	0	1.646	6.8	3.91	2.264
5/3/2015	15:07:36	0	1.558	6.8	3.91	2.352

Ground Water Level Data - 2015
Replication Area E - Well #2
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area E - Well #2
Pittsfield Airport, Pittsfield, MA

5/3/2015	19:07:36	0	1.624	6.8	3.91	2.286
5/3/2015	23:07:36	0	1.706	6.8	3.91	2.204
5/4/2015	3:07:36	0	1.691	6.8	3.91	2.219
5/4/2015	7:07:36	0	1.727	6.9	3.91	2.183
5/4/2015	11:07:36	0	1.543	6.9	3.91	2.367
5/4/2015	15:07:36	0	1.438	6.9	3.91	2.472
5/4/2015	19:07:36	0	1.492	7	3.91	2.418
5/4/2015	23:07:36	0	1.636	7	3.91	2.274
5/5/2015	3:07:36	0	1.594	7	3.91	2.316
5/5/2015	7:07:36	0	1.648	7.1	3.91	2.262
5/5/2015	11:07:36	0	1.566	7.1	3.91	2.344
5/5/2015	15:07:36	0	1.432	7.1	3.91	2.478
5/5/2015	19:07:36	0	1.492	7.2	3.91	2.418
5/5/2015	23:07:36	0	1.577	7.2	3.91	2.333
5/6/2015	3:07:36	0	1.579	7.2	3.91	2.331
5/6/2015	7:07:36	0	1.638	7.3	3.91	2.272
5/6/2015	11:07:36	0	1.503	7.3	3.91	2.407
5/6/2015	15:07:36	0	1.331	7.4	3.91	2.579
5/6/2015	19:07:36	0	1.41	7.4	3.91	2.5
5/6/2015	23:07:36	0	1.553	7.4	3.91	2.357
5/7/2015	3:07:36	0	1.516	7.5	3.91	2.394
5/7/2015	7:07:36	0	1.592	7.5	3.91	2.318
5/7/2015	11:07:36	0	1.448	7.6	3.91	2.462
5/7/2015	15:07:36	0	1.323	7.6	3.91	2.587
5/7/2015	19:07:36	0	1.38	7.7	3.91	2.53
5/7/2015	23:07:36	0	1.533	7.7	3.91	2.377
5/8/2015	3:07:36	0	1.509	7.7	3.91	2.401
5/8/2015	7:07:36	0	1.588	7.7	3.91	2.322
5/8/2015	11:07:36	0	1.425	7.8	3.91	2.485
5/8/2015	15:07:36	0	1.352	7.8	3.91	2.558
5/8/2015	19:07:36	0	1.451	7.9	3.91	2.459
5/8/2015	23:07:36	0	1.594	7.9	3.91	2.316
5/9/2015	3:07:36	0	1.514	7.9	3.91	2.396
5/9/2015	7:07:36	0	1.555	7.9	3.91	2.355
5/9/2015	11:07:36	0	1.419	8	3.91	2.491
5/9/2015	15:07:36	0	1.327	8	3.91	2.583
5/9/2015	19:07:36	0	1.407	8.1	3.91	2.503
5/9/2015	23:07:36	0	1.454	8.1	3.91	2.456
5/10/2015	3:07:36	0	1.388	8.1	3.91	2.522
5/10/2015	7:07:36	0	1.465	8.2	3.91	2.445
5/10/2015	11:07:36	0	1.36	8.2	3.91	2.55
5/10/2015	15:07:36	0	1.293	8.3	3.91	2.617
5/10/2015	19:07:36	0	1.388	8.3	3.91	2.522
5/10/2015	23:07:36	0	1.485	8.3	3.91	2.425
5/11/2015	3:07:36	0	1.395	8.4	3.91	2.515
5/11/2015	7:07:36	0	1.47	8.4	3.91	2.44
5/11/2015	11:07:36	0	1.369	8.5	3.91	2.541
5/11/2015	15:07:36	0	1.274	8.5	3.91	2.636
5/11/2015	19:07:36	0	1.336	8.6	3.91	2.574
5/11/2015	23:07:36	0	1.382	8.6	3.91	2.528
5/12/2015	3:07:36	0	1.319	8.7	3.91	2.591
5/12/2015	7:07:36	0	1.339	8.7	3.91	2.571
5/12/2015	11:07:36	0	1.342	8.8	3.91	2.568
5/12/2015	15:07:36	0	1.272	8.8	3.91	2.638
5/12/2015	19:07:36	0	1.491	8.9	3.91	2.419
5/12/2015	23:07:36	0	1.557	8.9	3.91	2.353
5/13/2015	3:07:36	0	1.432	9	3.91	2.478
5/13/2015	7:07:36	0	1.55	9	3.91	2.36
5/13/2015	11:07:36	0	1.548	9.1	3.91	2.362
5/13/2015	15:07:36	0	1.45	9.1	3.91	2.46
5/13/2015	19:07:36	0	1.434	9.2	3.91	2.476
5/13/2015	23:07:36	0	1.538	9.2	3.91	2.372
5/14/2015	3:07:36	0	1.48	9.2	3.91	2.43
5/14/2015	7:07:36	0	1.512	9.3	3.91	2.398
5/14/2015	11:07:36	0	1.341	9.3	3.91	2.569
5/14/2015	15:07:36	0	1.201	9.4	3.91	2.709
5/14/2015	19:07:36	0	1.216	9.4	3.91	2.694
5/14/2015	23:07:36	0	1.358	9.4	3.91	2.552
5/15/2015	3:07:36	0	1.318	9.4	3.91	2.592
5/15/2015	7:07:36	0	1.409	9.4	3.91	2.501
5/15/2015	11:07:36	0	1.262	9.4	3.91	2.648
5/15/2015	15:07:36	0	1.083	9.5	3.91	2.827
5/15/2015	19:07:36	0	1.159	9.5	3.91	2.751
5/15/2015	23:07:36	0	1.249	9.5	3.91	2.661
5/16/2015	3:07:36	0	1.199	9.4	3.91	2.711
5/16/2015	7:07:36	0	1.247	9.4	3.91	2.663
5/16/2015	11:07:36	0	1.182	9.5	3.91	2.728
5/16/2015	15:07:36	0	1.064	9.5	3.91	2.846
5/16/2015	19:07:36	0	1.172	9.5	3.91	2.738
5/16/2015	23:07:36	0	1.236	9.5	3.91	2.674
5/17/2015	3:07:36	0	1.125	9.5	3.91	2.785
5/17/2015	7:07:36	0	1.271	9.5	3.91	2.639
5/17/2015	11:07:36	0	1.111	9.5	3.91	2.799
5/17/2015	15:07:36	0	1.014	9.5	3.91	2.896
5/17/2015	19:07:36	0	1.059	9.5	3.91	2.851
5/17/2015	23:07:36	0	1.127	9.5	3.91	2.783
5/18/2015	3:07:36	0	1.109	9.5	3.91	2.801

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5/18/2015	7:07:36	0	1.212	9.6	3.91	2.698
5/18/2015	11:07:36	0	1.082	9.6	3.91	2.828
5/18/2015	15:07:36	0	0.926	9.6	3.91	2.984
5/18/2015	19:07:36	0	1.01	9.7	3.91	2.9
5/18/2015	23:07:36	0	0.995	9.7	3.91	2.915
5/19/2015	3:07:36	0	0.952	9.7	3.91	2.958
5/19/2015	7:07:36	0	1.018	9.7	3.91	2.892
5/19/2015	11:07:36	0	1.02	9.7	3.91	2.89
5/19/2015	15:07:36	0	0.887	9.8	3.91	3.023
5/19/2015	19:07:36	0	0.952	9.8	3.91	2.958
5/19/2015	23:07:36	0	1.274	9.8	3.91	2.636
5/20/2015	3:07:36	0	1.028	9.8	3.91	2.882
5/20/2015	7:07:36	0	1.096	9.8	3.91	2.814
5/20/2015	11:07:36	0	1.134	9.9	3.91	2.776
5/20/2015	15:07:36	0	1.002	9.9	3.91	2.908
5/20/2015	19:07:36	0	1.085	10	3.91	2.825
5/20/2015	23:07:36	0	1.114	9.9	3.91	2.796
5/21/2015	3:07:36	0	1.04	10	3.91	2.87
5/21/2015	7:07:36	0	1.139	10	3.91	2.771
5/21/2015	11:07:36	0	0.987	10	3.91	2.923
5/21/2015	15:07:36	0	0.878	10.1	3.91	3.032
5/21/2015	19:07:36	0	0.95	10.1	3.91	2.96
5/21/2015	23:07:36	0	1.008	10	3.91	2.902
5/22/2015	3:07:36	0	1.049	10	3.91	2.861
5/22/2015	7:07:36	0	1.09	10	3.91	2.82
5/22/2015	11:07:36	0	1.005	10.1	3.91	2.905
5/22/2015	15:07:36	0	1.066	10.1	3.91	2.844
5/22/2015	19:07:36	0	1.063	10.1	3.91	2.847
5/22/2015	23:07:36	0	1.132	10.1	3.91	2.778
5/23/2015	3:07:36	0	1.162	10.1	3.91	2.748
5/23/2015	7:07:36	0	1.232	10	3.91	2.678
5/23/2015	11:07:36	0	1.048	10.1	3.91	2.862
5/23/2015	15:07:36	0	0.869	10.1	3.91	3.041
5/23/2015	19:07:36	0	0.852	10.1	3.91	3.058
5/23/2015	23:07:36	0	0.986	10.1	3.91	2.924
5/24/2015	3:07:36	0	1.011	10.1	3.91	2.899
5/24/2015	7:07:36	0	1.086	10.1	3.91	2.824
5/24/2015	11:07:36	0	0.916	10.1	3.91	2.994
5/24/2015	15:07:36	0	0.831	10.1	3.91	3.079
5/24/2015	19:07:36	0	0.871	10.1	3.91	3.039
5/24/2015	23:07:36	0	1.01	10.1	3.91	2.9
5/25/2015	3:07:36	0	0.985	10	3.91	2.925
5/25/2015	7:07:36	0	1.062	10	3.91	2.848
5/25/2015	11:07:36	0	0.941	10	3.91	2.969
5/25/2015	15:07:36	0	0.757	10.1	3.91	3.153
5/25/2015	19:07:36	0	0.864	10.1	3.91	3.046
5/25/2015	23:07:36	0	0.975	10.1	3.91	2.935
5/26/2015	3:07:36	0	0.93	10.1	3.91	2.98
5/26/2015	7:07:36	0	1.009	10.1	3.91	2.901
5/26/2015	11:07:36	0	0.935	10.1	3.91	2.975
5/26/2015	15:07:36	0	0.835	10.1	3.91	3.075
5/26/2015	19:07:36	0	0.875	10.1	3.91	3.035
5/26/2015	23:07:36	0	0.96	10.1	3.91	2.95
5/27/2015	3:07:36	0	0.913	10.1	3.91	2.997
5/27/2015	7:07:36	0	0.99	10.1	3.91	2.92
5/27/2015	11:07:36	0	0.893	10.2	3.91	3.017
5/27/2015	15:07:36	0	0.79	10.2	3.91	3.12
5/27/2015	19:07:36	0	1.12	10.1	3.91	2.79
5/27/2015	23:07:36	0	1.094	10.2	3.91	2.816
5/28/2015	3:07:36	0	1.105	10.2	3.91	2.805
5/28/2015	7:07:36	0	1.192	10.3	3.91	2.718
5/28/2015	11:07:36	0	1.059	10.3	3.91	2.851
5/28/2015	15:07:36	0	1.064	10.3	3.91	2.846
5/28/2015	19:07:36	0	1.311	10.4	3.91	2.599
5/28/2015	23:07:36	0	1.296	10.4	3.91	2.614
5/29/2015	3:07:36	0	1.25	10.4	3.91	2.66
5/29/2015	7:07:36	0	1.36	10.4	3.91	2.55
5/29/2015	11:07:36	0	1.165	10.5	3.91	2.745
5/29/2015	15:07:36	0	1.134	10.6	3.91	2.776
5/29/2015	19:07:36	0	1.13	10.6	3.91	2.78
5/29/2015	23:07:36	0	1.27	10.6	3.91	2.64
5/30/2015	3:07:36	0	1.233	10.6	3.91	2.677
5/30/2015	7:07:36	0	1.327	10.6	3.91	2.583
5/30/2015	11:07:36	0	1.176	10.7	3.91	2.734
5/30/2015	15:07:36	0	1.103	10.7	3.91	2.807
5/30/2015	19:07:36	0	1.161	10.8	3.91	2.749
5/30/2015	23:07:36	0	1.297	10.8	3.91	2.613
5/31/2015	3:07:36	0	1.286	10.8	3.91	2.624
5/31/2015	7:07:36	0	1.355	10.8	3.91	2.555
5/31/2015	11:07:36	0	1.395	10.8	3.91	2.515
5/31/2015	15:07:36	0	1.4	10.9	3.91	2.51
5/31/2015	19:07:36	0	1.389	10.9	3.91	2.521
5/31/2015	23:07:36	0	1.363	10.9	3.91	2.547
6/1/2015	3:07:36	0	1.325	11	3.91	2.585
6/1/2015	7:07:36	0	1.439	11	3.91	2.471
6/1/2015	11:07:36	0	1.474	11	3.91	2.436
6/1/2015	15:07:36	0	1.627	11.2	3.91	2.283

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6/1/2015	19:07:36	0	2.32	11.9	3.91	1.59
6/1/2015	23:07:36	0	3.245	12.9	3.91	0.665
6/2/2015	3:07:36	0	3.057	12.8	3.91	0.853
6/2/2015	7:07:36	0	3.143	12.6	3.91	0.767
6/2/2015	11:07:36	0	3.067	12.5	3.91	0.843
6/2/2015	15:07:36	0	2.864	12.4	3.91	1.046
6/2/2015	19:07:36	0	2.766	12.4	3.91	1.144
6/2/2015	23:07:36	0	2.607	12.3	3.91	1.303
6/3/2015	3:07:36	0	2.329	12.2	3.91	1.581
6/3/2015	7:07:36	0	2.279	12	3.91	1.631
6/3/2015	11:07:36	0	2.051	11.9	3.91	1.859
6/3/2015	15:07:36	0	1.848	11.7	3.91	2.062
6/3/2015	19:07:36	0	1.815	11.6	3.91	2.095
6/3/2015	23:07:36	0	1.908	11.5	3.91	2.002
6/4/2015	3:07:36	0	1.858	11.4	3.91	2.052
6/4/2015	7:07:36	0	1.852	11.4	3.91	2.058
6/4/2015	11:07:36	0	1.767	11.3	3.91	2.143
6/4/2015	15:07:36	0	1.616	11.3	3.91	2.294
6/4/2015	19:07:36	0	1.594	11.3	3.91	2.316
6/4/2015	23:07:36	0	1.651	11.2	3.91	2.259
6/5/2015	3:07:36	0	1.63	11.2	3.91	2.28
6/5/2015	7:07:36	0	1.648	11.2	3.91	2.262
6/5/2015	11:07:36	0	1.524	11.2	3.91	2.386
6/5/2015	15:07:36	0	1.387	11.2	3.91	2.523
6/5/2015	19:07:36	0	1.432	11.2	3.91	2.478
6/5/2015	23:07:36	0	1.508	11.2	3.91	2.402
6/6/2015	3:07:36	0	1.487	11.1	3.91	2.423
6/6/2015	7:07:36	0	1.655	11.1	3.91	2.255
6/6/2015	11:07:36	0	1.702	11.2	3.91	2.208
6/6/2015	15:07:36	0	1.51	11.2	3.91	2.4
6/6/2015	19:07:36	0	1.51	11.2	3.91	2.4
6/6/2015	23:07:36	0	1.566	11.2	3.91	2.344
6/7/2015	3:07:36	0	1.572	11.2	3.91	2.338
6/7/2015	7:07:36	0	1.622	11.2	3.91	2.288
6/7/2015	11:07:36	0	1.421	11.2	3.91	2.489
6/7/2015	15:07:36	0	1.288	11.2	3.91	2.622
6/7/2015	19:07:36	0	1.299	11.2	3.91	2.611
6/7/2015	23:07:36	0	1.421	11.2	3.91	2.489
6/8/2015	3:07:36	0	1.292	11.2	3.91	2.618
6/8/2015	7:07:36	0	1.359	11.2	3.91	2.551
6/8/2015	11:07:36	0	1.322	11.2	3.91	2.588
6/8/2015	15:07:36	0	1.257	11.3	3.91	2.653
6/8/2015	19:07:36	0	1.336	11.3	3.91	2.574
6/8/2015	23:07:36	0	1.815	11.5	3.91	2.095
6/9/2015	3:07:36	0	1.879	12	3.91	2.031
6/9/2015	7:07:36	0	1.883	11.9	3.91	2.027
6/9/2015	11:07:36	0	1.905	12	3.91	2.005
6/9/2015	15:07:36	0	1.815	11.9	3.91	2.095
6/9/2015	19:07:36	0	2.459	12.6	3.91	1.451
6/9/2015	23:07:36	0	2.467	12.8	3.91	1.443
6/10/2015	3:07:36	0	2.312	12.8	3.91	1.598
6/10/2015	7:07:36	0	2.308	12.7	3.91	1.602
6/10/2015	11:07:36	0	2.022	12.5	3.91	1.888
6/10/2015	15:07:36	0	1.792	12.2	3.91	2.118
6/10/2015	19:07:36	0	1.68	12	3.91	2.23
6/10/2015	23:07:36	0	1.769	11.8	3.91	2.141
6/11/2015	3:07:36	0	1.705	11.8	3.91	2.205
6/11/2015	7:07:36	0	1.794	11.8	3.91	2.116
6/11/2015	11:07:36	0	1.719	11.8	3.91	2.191
6/11/2015	15:07:36	0	1.612	11.8	3.91	2.298
6/11/2015	19:07:36	0	1.606	11.7	3.91	2.304
6/11/2015	23:07:36	0	1.648	11.7	3.91	2.262
6/12/2015	3:07:36	0	1.554	11.7	3.91	2.356
6/12/2015	7:07:36	0	1.647	11.7	3.91	2.263
6/12/2015	11:07:36	0	1.417	11.7	3.91	2.493
6/12/2015	15:07:36	0	1.3	11.8	3.91	2.61
6/12/2015	19:07:36	0	1.305	11.8	3.91	2.605
6/12/2015	23:07:36	0	1.509	11.8	3.91	2.401
6/13/2015	3:07:36	0	1.745	12.4	3.91	2.165
6/13/2015	7:07:36	0	1.953	12.4	3.91	1.957
6/13/2015	11:07:36	0	1.752	12.3	3.91	2.158
6/13/2015	15:07:36	0	1.529	12.2	3.91	2.381
6/13/2015	19:07:36	0	1.432	12.1	3.91	2.478
6/13/2015	23:07:36	0	1.554	12	3.91	2.356
6/14/2015	3:07:36	0	1.496	12	3.91	2.414
6/14/2015	7:07:36	0	1.568	12.1	3.91	2.342
6/14/2015	11:07:36	0	1.432	12.1	3.91	2.478
6/14/2015	15:07:36	0	1.293	12.1	3.91	2.617
6/14/2015	19:07:36	0	1.312	12.2	3.91	2.598
6/14/2015	23:07:36	0	1.396	12.2	3.91	2.514
6/15/2015	3:07:36	0	1.286	12.1	3.91	2.624
6/15/2015	7:07:36	0	3.011	14.1	3.91	0.899
6/15/2015	11:07:36	0	4.136	15.5	3.91	-0.226
6/15/2015	15:07:36	0	3.96	15.7	3.91	-0.05
6/15/2015	19:07:36	0	3.655	15.6	3.91	0.255
6/15/2015	23:07:36	0	3.459	15.5	3.91	0.451
6/16/2015	3:07:36	0	3.151	15.3	3.91	0.759

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6/16/2015	7:07:36	0	2.888	15	3.91	1.022
6/16/2015	11:07:36	0	2.604	14.7	3.91	1.306
6/16/2015	15:07:36	0	2.419	14.4	3.91	1.491
6/16/2015	19:07:36	0	2.834	14.5	3.91	1.076
6/16/2015	23:07:36	0	2.782	14.6	3.91	1.128
6/17/2015	3:07:36	0	2.643	14.5	3.91	1.267
6/17/2015	7:07:36	0	2.526	14.2	3.91	1.384
6/17/2015	11:07:36	0	2.301	14	3.91	1.609
6/17/2015	15:07:36	0	1.975	13.6	3.91	1.935
6/17/2015	19:07:36	0	1.877	13.2	3.91	2.033
6/17/2015	23:07:36	0	1.957	13.1	3.91	1.953
6/18/2015	3:07:36	0	1.839	13	3.91	2.071
6/18/2015	7:07:36	0	1.89	13	3.91	2.02
6/18/2015	11:07:36	0	1.749	12.9	3.91	2.161
6/18/2015	15:07:36	0	1.628	12.9	3.91	2.282
6/18/2015	19:07:36	0	1.654	12.9	3.91	2.256
6/18/2015	23:07:36	0	1.702	12.8	3.91	2.208
6/19/2015	3:07:36	0	1.64	12.8	3.91	2.27
6/19/2015	7:07:36	0	1.721	12.8	3.91	2.189
6/19/2015	11:07:36	0	1.717	12.8	3.91	2.193
6/19/2015	15:07:36	0	1.592	12.8	3.91	2.318
6/19/2015	19:07:36	0	1.573	12.8	3.91	2.337
6/19/2015	23:07:36	0	1.656	12.8	3.91	2.254
6/20/2015	3:07:36	0	1.596	12.8	3.91	2.314
6/20/2015	7:07:36	0	1.589	12.8	3.91	2.321
6/20/2015	11:07:36	0	1.43	12.8	3.91	2.48
6/20/2015	15:07:36	0	1.363	12.8	3.91	2.547
6/20/2015	19:07:36	0	1.33	12.8	3.91	2.58
6/20/2015	23:07:36	0	1.362	12.8	3.91	2.548
6/21/2015	3:07:36	0	1.702	12.9	3.91	2.208
6/21/2015	7:07:36	0	2.809	14.4	3.91	1.101
6/21/2015	11:07:36	0	4.05	15.2	3.91	-0.14
6/21/2015	15:07:36	0	4.02	15.8	3.91	-0.11
6/21/2015	19:07:36	0	3.773	16.1	3.91	0.137
6/21/2015	23:07:36	0	3.604	16	3.91	0.306
6/22/2015	3:07:36	0	3.418	15.8	3.91	0.492
6/22/2015	7:07:36	0	3.373	15.6	3.91	0.537
6/22/2015	11:07:36	0	2.923	15.3	3.91	0.987
6/22/2015	15:07:36	0	2.531	14.6	3.91	1.379
6/22/2015	19:07:36	0	2.221	14	3.91	1.689
6/22/2015	23:07:36	0	2.263	13.7	3.91	1.647
6/23/2015	3:07:36	0	2.158	13.6	3.91	1.752
6/23/2015	7:07:36	0	2.054	13.5	3.91	1.856
6/23/2015	11:07:36	0	2.081	13.5	3.91	1.829
6/23/2015	15:07:36	0	2.146	13.6	3.91	1.764
6/23/2015	19:07:36	0	2.09	13.5	3.91	1.82
6/23/2015	23:07:36	0	2.194	13.4	3.91	1.716
6/24/2015	3:07:36	0	2.06	13.4	3.91	1.85
6/24/2015	7:07:36	0	2.087	13.3	3.91	1.823
6/24/2015	11:07:36	0	1.932	13.3	3.91	1.978
6/24/2015	15:07:36	0	1.801	13.3	3.91	2.109
6/24/2015	19:07:36	0	1.789	13.3	3.91	2.121
6/24/2015	23:07:36	0	1.835	13.3	3.91	2.075
6/25/2015	3:07:36	0	1.761	13.3	3.91	2.149
6/25/2015	7:07:36	0	1.808	13.3	3.91	2.102
6/25/2015	11:07:36	0	1.693	13.3	3.91	2.217
6/25/2015	15:07:36	0	1.531	13.3	3.91	2.379
6/25/2015	19:07:36	0	1.558	13.3	3.91	2.352
6/25/2015	23:07:36	0	1.603	13.3	3.91	2.307
6/26/2015	3:07:36	0	1.565	13.3	3.91	2.345
6/26/2015	7:07:36	0	1.61	13.3	3.91	2.3
6/26/2015	11:07:36	0	1.538	13.3	3.91	2.372
6/26/2015	15:07:36	0	1.43	13.3	3.91	2.48
6/26/2015	19:07:36	0	1.48	13.3	3.91	2.43
6/26/2015	23:07:36	0	1.529	13.3	3.91	2.381
6/27/2015	3:07:36	0	1.457	13.3	3.91	2.453
6/27/2015	7:07:36	0	1.505	13.3	3.91	2.405
6/27/2015	11:07:36	0	1.336	13.3	3.91	2.574
6/27/2015	15:07:36	0	1.337	13.3	3.91	2.573
6/27/2015	19:07:36	0	1.268	13.3	3.91	2.642
6/27/2015	23:07:36	0	1.244	13.3	3.91	2.666
6/28/2015	3:07:36	0	1.418	13.3	3.91	2.492
6/28/2015	7:07:36	0	1.894	13.9	3.91	2.016
6/28/2015	11:07:36	0	2.046	14.3	3.91	1.864
6/28/2015	15:07:36	0	2.151	14.3	3.91	1.759
6/28/2015	19:07:36	0	2.157	14.3	3.91	1.753
6/28/2015	23:07:36	0	2.031	14.2	3.91	1.879
6/29/2015	3:07:36	0	2.018	14.1	3.91	1.892
6/29/2015	7:07:36	0	2.191	14.1	3.91	1.719
6/29/2015	11:07:36	0	2.094	14.1	3.91	1.816
6/29/2015	15:07:36	0	1.944	13.9	3.91	1.966
6/29/2015	19:07:36	0	2.192	14.1	3.91	1.718
6/29/2015	23:07:36	0	2.162	14.1	3.91	1.748
6/30/2015	3:07:36	0	2.05	14	3.91	1.86
6/30/2015	7:07:36	0	2.019	13.9	3.91	1.891
6/30/2015	11:07:36	0	1.86	13.8	3.91	2.05
6/30/2015	15:07:36	0	1.765	13.7	3.91	2.145

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6/30/2015	19:07:36	0	1.941	13.9	3.91	1.969
6/30/2015	23:07:36	0	1.905	13.8	3.91	2.005
7/1/2015	3:07:36	0	1.88	13.8	3.91	2.03
7/1/2015	7:07:36	0	4.086	15.1	3.91	-0.176
7/1/2015	11:07:36	0	4.109	15.1	3.91	-0.199
7/1/2015	15:07:36	0	3.953	15.2	3.91	-0.043
7/1/2015	19:07:36	0	4.206	15.6	3.91	-0.296
7/1/2015	23:07:36	0	4.167	15.8	3.91	-0.257
7/2/2015	3:07:36	0	3.937	15.7	3.91	-0.027
7/2/2015	7:07:36	0	3.807	15.5	3.91	0.103
7/2/2015	11:07:36	0	3.625	15.2	3.91	0.285
7/2/2015	15:07:36	0	3.284	15	3.91	0.626
7/2/2015	19:07:36	0	2.917	14.6	3.91	0.993
7/2/2015	23:07:36	0	2.823	14.3	3.91	1.087
7/3/2015	3:07:36	0	2.722	14.1	3.91	1.188
7/3/2015	7:07:36	0	2.696	14	3.91	1.214
7/3/2015	11:07:36	0	2.453	13.9	3.91	1.457
7/3/2015	15:07:36	0	2.256	13.8	3.91	1.654
7/3/2015	19:07:36	0	2.165	13.7	3.91	1.745
7/3/2015	23:07:36	0	2.222	13.6	3.91	1.688
7/4/2015	3:07:36	0	2.129	13.6	3.91	1.781
7/4/2015	7:07:36	0	2.122	13.6	3.91	1.788
7/4/2015	11:07:36	0	2.11	13.5	3.91	1.8
7/4/2015	15:07:36	0	2.26	13.6	3.91	1.65
7/4/2015	19:07:36	0	2.156	13.6	3.91	1.754
7/4/2015	23:07:36	0	2.238	13.6	3.91	1.672
7/5/2015	3:07:36	0	2.15	13.6	3.91	1.76
7/5/2015	7:07:36	0	2.167	13.6	3.91	1.743
7/5/2015	11:07:36	0	2.066	13.6	3.91	1.844
7/5/2015	15:07:36	0	1.919	13.5	3.91	1.991
7/5/2015	19:07:36	0	1.845	13.5	3.91	2.065
7/5/2015	23:07:36	0	1.956	13.5	3.91	1.954
7/6/2015	3:07:36	0	1.856	13.4	3.91	2.054
7/6/2015	7:07:36	0	1.875	13.4	3.91	2.035
7/6/2015	11:07:36	0	1.787	13.4	3.91	2.123
7/6/2015	15:07:36	0	1.656	13.4	3.91	2.254
7/6/2015	19:07:36	0	1.61	13.4	3.91	2.3
7/6/2015	23:07:36	0	1.66	13.4	3.91	2.25
7/7/2015	3:07:36	0	1.631	13.4	3.91	2.279
7/7/2015	7:07:36	0	1.64	13.4	3.91	2.27
7/7/2015	11:07:36	0	1.564	13.4	3.91	2.346
7/7/2015	15:07:36	0	1.518	13.4	3.91	2.392
7/7/2015	19:07:36	0	1.581	13.4	3.91	2.329
7/7/2015	23:07:36	0	1.634	13.4	3.91	2.276
7/8/2015	3:07:36	0	1.553	13.4	3.91	2.357
7/8/2015	7:07:36	0	1.67	13.4	3.91	2.24
7/8/2015	11:07:36	0	1.668	13.4	3.91	2.242
7/8/2015	15:07:36	0	1.544	13.5	3.91	2.366
7/8/2015	19:07:36	0	1.574	13.5	3.91	2.336
7/8/2015	23:07:36	0	1.595	13.5	3.91	2.315
7/9/2015	3:07:36	0	1.597	13.5	3.91	2.313
7/9/2015	7:07:36	0	1.582	13.5	3.91	2.328
7/9/2015	11:07:36	0	1.491	13.5	3.91	2.419
7/9/2015	15:07:36	0	1.391	13.6	3.91	2.519
7/9/2015	19:07:36	0	1.407	13.6	3.91	2.503
7/9/2015	23:07:36	0	1.568	13.6	3.91	2.342
7/10/2015	3:07:36	0	3.913	15.9	3.91	-0.003
7/10/2015	7:07:36	0	4.105	16.2	3.91	-0.195
7/10/2015	11:07:36	0	3.643	16.2	3.91	0.267
7/10/2015	15:07:36	0	3.198	16.1	3.91	0.712
7/10/2015	19:07:36	0	2.741	15.7	3.91	1.169
7/10/2015	23:07:36	0	2.642	15.4	3.91	1.268
7/11/2015	3:07:36	0	2.494	15.1	3.91	1.416
7/11/2015	7:07:36	0	2.47	14.9	3.91	1.44
7/11/2015	11:07:36	0	2.217	14.7	3.91	1.693
7/11/2015	15:07:36	0	1.977	14.4	3.91	1.933
7/11/2015	19:07:36	0	1.9	14.3	3.91	2.01
7/11/2015	23:07:36	0	1.992	14.2	3.91	1.918
7/12/2015	3:07:36	0	1.877	14.1	3.91	2.033
7/12/2015	7:07:36	0	1.925	14.1	3.91	1.985
7/12/2015	11:07:36	0	1.834	14.1	3.91	2.076
7/12/2015	15:07:36	0	1.686	14.1	3.91	2.224
7/12/2015	19:07:36	0	1.671	14.1	3.91	2.239
7/12/2015	23:07:36	0	1.761	14	3.91	2.149
7/13/2015	3:07:36	0	1.671	14	3.91	2.239
7/13/2015	7:07:36	0	1.716	14	3.91	2.194
7/13/2015	11:07:36	0	1.65	14	3.91	2.26
7/13/2015	15:07:36	0	1.496	14	3.91	2.414
7/13/2015	19:07:36	0	1.58	14	3.91	2.33
7/13/2015	23:07:36	0	1.641	14	3.91	2.269
7/14/2015	3:07:36	0	1.573	14	3.91	2.337
7/14/2015	7:07:36	0	1.586	14	3.91	2.324
7/14/2015	11:07:36	0	1.538	14.1	3.91	2.372
7/14/2015	15:07:36	0	1.483	14.1	3.91	2.427
7/14/2015	19:07:36	0	1.481	14.1	3.91	2.429
7/14/2015	23:07:36	0	1.603	14.1	3.91	2.307
7/15/2015	3:07:36	0	1.547	14.1	3.91	2.363

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7/15/2015	7:07:36	0	1.672	14.1	3.91	2.238
7/15/2015	11:07:36	0	1.646	14.1	3.91	2.264
7/15/2015	15:07:36	0	1.579	14.2	3.91	2.331
7/15/2015	19:07:36	0	1.628	14.2	3.91	2.282
7/15/2015	23:07:36	0	1.671	14.1	3.91	2.239
7/16/2015	3:07:36	0	1.609	14.1	3.91	2.301
7/16/2015	7:07:36	0	1.702	14.2	3.91	2.208
7/16/2015	11:07:36	0	1.514	14.2	3.91	2.396
7/16/2015	15:07:36	0	1.437	14.2	3.91	2.473
7/16/2015	19:07:36	0	1.444	14.2	3.91	2.466
7/16/2015	23:07:36	0	1.519	14.2	3.91	2.391
7/17/2015	3:07:36	0	1.501	14.2	3.91	2.409
7/17/2015	7:07:36	0	1.526	14.2	3.91	2.384
7/17/2015	11:07:36	0	1.4	14.2	3.91	2.51
7/17/2015	15:07:36	0	1.301	14.2	3.91	2.609
7/17/2015	19:07:36	0	1.316	14.2	3.91	2.594
7/17/2015	23:07:36	0	1.386	14.2	3.91	2.524
7/18/2015	3:07:36	0	1.304	14.2	3.91	2.606
7/18/2015	7:07:36	0	1.399	14.2	3.91	2.511
7/18/2015	11:07:36	0	1.358	14.2	3.91	2.552
7/18/2015	15:07:36	0	1.334	14.2	3.91	2.576
7/18/2015	19:07:36	0	1.332	14.2	3.91	2.578
7/18/2015	23:07:36	0	1.482	14.2	3.91	2.428
7/19/2015	3:07:36	0	1.447	14.2	3.91	2.463
7/19/2015	7:07:36	0	1.472	14.2	3.91	2.438
7/19/2015	11:07:36	0	1.442	14.2	3.91	2.468
7/19/2015	15:07:36	0	1.413	14.2	3.91	2.497
7/19/2015	19:07:36	0	1.549	14.2	3.91	2.361
7/19/2015	23:07:36	0	1.594	14.2	3.91	2.316
7/20/2015	3:07:36	0	1.643	14.3	3.91	2.267
7/20/2015	7:07:36	0	1.741	14.3	3.91	2.169
7/20/2015	11:07:36	0	1.676	14.3	3.91	2.234
7/20/2015	15:07:36	0	1.609	14.3	3.91	2.301
7/20/2015	19:07:36	0	1.553	14.3	3.91	2.357
7/20/2015	23:07:36	0	1.623	14.3	3.91	2.287
7/21/2015	3:07:36	0	1.588	14.3	3.91	2.322
7/21/2015	7:07:36	0	1.59	14.3	3.91	2.32
7/21/2015	11:07:36	0	1.529	14.4	3.91	2.381
7/21/2015	15:07:36	0	1.421	14.4	3.91	2.489
7/21/2015	19:07:36	0	1.47	14.4	3.91	2.44
7/21/2015	23:07:36	0	1.556	14.4	3.91	2.354
7/22/2015	3:07:36	0	1.475	14.4	3.91	2.435
7/22/2015	7:07:36	0	1.563	14.4	3.91	2.347
7/22/2015	11:07:36	0	1.427	14.5	3.91	2.483
7/22/2015	15:07:36	0	1.333	14.5	3.91	2.577
7/22/2015	19:07:36	0	1.374	14.5	3.91	2.536
7/22/2015	23:07:36	0	1.423	14.5	3.91	2.487
7/23/2015	3:07:36	0	1.295	14.5	3.91	2.615
7/23/2015	7:07:36	0	1.351	14.5	3.91	2.559
7/23/2015	11:07:36	0	1.254	14.5	3.91	2.656
7/23/2015	15:07:36	0	1.13	14.5	3.91	2.78
7/23/2015	19:07:36	0	1.177	14.6	3.91	2.733
7/23/2015	23:07:36	0	1.234	14.5	3.91	2.676
7/24/2015	3:07:36	0	1.189	14.5	3.91	2.721
7/24/2015	7:07:36	0	1.21	14.5	3.91	2.7
7/24/2015	11:07:36	0	1.118	14.6	3.91	2.792
7/24/2015	15:07:36	0	1.001	14.6	3.91	2.909
7/24/2015	19:07:36	0	1.122	14.6	3.91	2.788
7/24/2015	23:07:36	0	1.11	14.6	3.91	2.8
7/25/2015	3:07:36	0	1.085	14.6	3.91	2.825
7/25/2015	7:07:36	0	1.137	14.6	3.91	2.773
7/25/2015	11:07:36	0	1.03	14.6	3.91	2.88
7/25/2015	15:07:36	0	0.94	14.6	3.91	2.97
7/25/2015	19:07:36	0	0.934	14.6	3.91	2.976
7/25/2015	23:07:36	0	1.006	14.5	3.91	2.904
7/26/2015	3:07:36	0	0.933	14.5	3.91	2.977
7/26/2015	7:07:36	0	0.973	14.5	3.91	2.937
7/26/2015	11:07:36	0	0.936	14.5	3.91	2.974
7/26/2015	15:07:36	0	0.877	14.5	3.91	3.033
7/26/2015	19:07:36	0	0.914	14.5	3.91	2.996
7/26/2015	23:07:36	0	0.962	14.5	3.91	2.948
7/27/2015	3:07:36	0	0.915	14.5	3.91	2.995
7/27/2015	7:07:36	0	0.982	14.5	3.91	2.928
7/27/2015	11:07:36	0	0.899	14.5	3.91	3.011
7/27/2015	15:07:36	0	0.783	14.5	3.91	3.127
7/27/2015	19:07:36	0	0.813	14.6	3.91	3.097
7/27/2015	23:07:36	0	0.863	14.6	3.91	3.047
7/28/2015	3:07:36	0	0.835	14.6	3.91	3.075
7/28/2015	7:07:36	0	0.869	14.6	3.91	3.041
7/28/2015	11:07:36	0	0.757	14.6	3.91	3.153
7/28/2015	15:07:36	0	0.687	14.6	3.91	3.223
7/28/2015	19:07:36	0	0.721	14.6	3.91	3.189
7/28/2015	23:07:36	0	0.771	14.6	3.91	3.139
7/29/2015	3:07:36	0	0.716	14.6	3.91	3.194
7/29/2015	7:07:36	0	0.794	14.6	3.91	3.116
7/29/2015	11:07:36	0	0.704	14.6	3.91	3.206
7/29/2015	15:07:36	0	0.585	14.7	3.91	3.325

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7/29/2015	19:07:36	0	0.578	14.7	3.91	3.332
7/29/2015	23:07:36	0	0.66	14.7	3.91	3.25
7/30/2015	3:07:36	0	0.622	14.7	3.91	3.288
7/30/2015	7:07:36	0	0.644	14.7	3.91	3.266
7/30/2015	11:07:36	0	0.577	14.7	3.91	3.333
7/30/2015	15:07:36	0	0.506	14.7	3.91	3.404
7/30/2015	19:07:36	0	0.628	14.7	3.91	3.282
7/30/2015	23:07:36	0	0.632	14.7	3.91	3.278
7/31/2015	3:07:36	0	0.572	14.8	3.91	3.338
7/31/2015	7:07:36	0	0.644	14.8	3.91	3.266
7/31/2015	11:07:36	0	0.573	14.8	3.91	3.337
7/31/2015	15:07:36	0	0.46	14.8	3.91	3.45
7/31/2015	19:07:36	0	0.42	14.8	3.91	3.49
7/31/2015	23:07:36	0	0.521	14.8	3.91	3.389
8/1/2015	3:07:36	0	0.424	14.8	3.91	3.486
8/1/2015	7:07:36	0	0.547	14.8	3.91	3.363
8/1/2015	11:07:36	0	0.516	14.8	3.91	3.394
8/1/2015	15:07:36	0	0.451	14.8	3.91	3.459
8/1/2015	19:07:36	0	0.488	14.8	3.91	3.422
8/1/2015	23:07:36	0	0.543	14.8	3.91	3.367
8/2/2015	3:07:36	0	0.478	14.8	3.91	3.432
8/2/2015	7:07:36	0	0.532	14.8	3.91	3.378
8/2/2015	11:07:36	0	0.476	14.8	3.91	3.434
8/2/2015	15:07:36	0	0.346	14.8	3.91	3.564
8/2/2015	19:07:36	0	0.332	14.8	3.91	3.578
8/2/2015	23:07:36	0	0.305	14.8	3.91	3.605
8/3/2015	3:07:36	0	0.334	14.8	3.91	3.576
8/3/2015	7:07:36	0	0.423	14.8	3.91	3.487
8/3/2015	11:07:36	0	0.324	14.8	3.91	3.586
8/3/2015	15:07:36	0	0.22	14.8	3.91	3.69
8/3/2015	19:07:36	0	0.338	14.8	3.91	3.572
8/3/2015	23:07:36	0	0.383	14.8	3.91	3.527
8/4/2015	3:07:36	0	0.314	14.8	3.91	3.596
8/4/2015	7:07:36	0	0.384	14.8	3.91	3.526
8/4/2015	11:07:36	0	0.367	14.8	3.91	3.543
8/4/2015	15:07:36	0	0.336	14.8	3.91	3.574
8/4/2015	19:07:36	0	0.408	14.8	3.91	3.502
8/4/2015	23:07:36	0	0.395	14.8	3.91	3.515
8/5/2015	3:07:36	0	0.313	14.8	3.91	3.597
8/5/2015	7:07:36	0	0.383	14.8	3.91	3.527
8/5/2015	11:07:36	0	0.298	14.8	3.91	3.612
8/5/2015	15:07:36	0	0.242	14.8	3.91	3.668
8/5/2015	19:07:36	0	0.298	14.8	3.91	3.612
8/5/2015	23:07:36	0	0.37	14.8	3.91	3.54
8/6/2015	3:07:36	0	0.292	14.8	3.91	3.618
8/6/2015	7:07:36	0	0.317	14.8	3.91	3.593
8/6/2015	11:07:36	0	0.302	14.8	3.91	3.608
8/6/2015	15:07:36	0	0.179	14.8	3.91	3.731
8/6/2015	19:07:36	0	0.2	14.8	3.91	3.71
8/6/2015	23:07:36	0	0.295	14.8	3.91	3.615
8/7/2015	3:07:36	0	0.226	14.8	3.91	3.684
8/7/2015	7:07:36	0	0.32	14.8	3.91	3.59
8/7/2015	11:07:36	0	0.235	14.8	3.91	3.675
8/7/2015	15:07:36	0	0.137	14.8	3.91	3.773
8/7/2015	19:07:36	0	0.174	14.8	3.91	3.736
8/7/2015	23:07:36	0	0.212	14.8	3.91	3.698
8/8/2015	3:07:36	0	0.184	14.8	3.91	3.726
8/8/2015	7:07:36	0	0.272	14.8	3.91	3.638
8/8/2015	11:07:36	0	0.185	14.8	3.91	3.725
8/8/2015	15:07:36	0	0.102	14.8	3.91	3.808
8/8/2015	19:07:36	0	0.118	14.7	3.91	3.792
8/8/2015	23:07:36	0	0.157	14.7	3.91	3.753
8/9/2015	3:07:36	0	0.101	14.7	3.91	3.809
8/9/2015	7:07:36	0	0.151	14.7	3.91	3.759
8/9/2015	11:07:36	0	0.135	14.7	3.91	3.775
8/9/2015	15:07:36	0	0.081	14.7	3.91	3.829
8/9/2015	19:07:36	0	0.131	14.7	3.91	3.779
8/9/2015	23:07:36	0	0.165	14.7	3.91	3.745
8/10/2015	3:07:36	0	0.139	14.7	3.91	3.771
8/10/2015	7:07:36	0	0.192	14.7	3.91	3.718
8/10/2015	11:07:36	0	0.103	14.7	3.91	3.807
8/10/2015	15:07:36	0	0.058	14.6	3.91	3.852
8/10/2015	19:07:36	0	0.069	14.6	3.91	3.841
8/10/2015	23:07:36	0	0.131	14.6	3.91	3.779
8/11/2015	3:07:36	0	0.009	14.6	3.91	3.901
8/11/2015	7:07:36	0	0.031	14.6	3.91	3.879
8/11/2015	11:07:36	0	0.012	14.6	3.91	3.898
8/11/2015	15:07:36	0	0.204	14.6	3.91	3.706
8/11/2015	19:07:36	0	0.338	14.6	3.91	3.572
8/11/2015	23:07:36	0	0.386	14.6	3.91	3.524
8/12/2015	3:07:36	0	0.363	14.6	3.91	3.547
8/12/2015	7:07:36	0	0.455	14.6	3.91	3.455
8/12/2015	11:07:36	0	0.415	14.6	3.91	3.495
8/12/2015	15:07:36	0	0.345	14.6	3.91	3.565
8/12/2015	19:07:36	0	0.467	14.6	3.91	3.443
8/12/2015	23:07:36	0	0.517	14.6	3.91	3.393
8/13/2015	3:07:36	0	0.464	14.6	3.91	3.446

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8/13/2015	7:07:36	0	0.553	14.6	3.91	3.357
8/13/2015	11:07:36	0	0.52	14.6	3.91	3.39
8/13/2015	15:07:36	0	0.387	14.7	3.91	3.523
8/13/2015	19:07:36	0	0.424	14.7	3.91	3.486
8/13/2015	23:07:36	0	0.552	14.7	3.91	3.358
8/14/2015	3:07:36	0	0.447	14.7	3.91	3.463
8/14/2015	7:07:36	0	0.507	14.7	3.91	3.403
8/14/2015	11:07:36	0	0.42	14.7	3.91	3.49
8/14/2015	15:07:36	0	0.279	14.7	3.91	3.631
8/14/2015	19:07:36	0	0.322	14.7	3.91	3.588
8/14/2015	23:07:36	0	0.401	14.7	3.91	3.509
8/15/2015	3:07:36	0	0.318	14.7	3.91	3.592
8/15/2015	7:07:36	0	0.394	14.7	3.91	3.516
8/15/2015	11:07:36	0	0.329	14.7	3.91	3.581
8/15/2015	15:07:36	0	0.189	14.7	3.91	3.721
8/15/2015	19:07:36	0	0.323	14.7	3.91	3.587
8/15/2015	23:07:36	0	0.367	14.7	3.91	3.543
8/16/2015	3:07:36	0	0.31	14.7	3.91	3.6
8/16/2015	7:07:36	0	0.327	14.7	3.91	3.583
8/16/2015	11:07:36	0	0.292	14.7	3.91	3.618
8/16/2015	15:07:36	0	0.184	14.7	3.91	3.726
8/16/2015	19:07:36	0	0.18	14.7	3.91	3.73
8/16/2015	23:07:36	0	0.304	14.7	3.91	3.606
8/17/2015	3:07:36	0	0.214	14.7	3.91	3.696
8/17/2015	7:07:36	0	0.287	14.7	3.91	3.623
8/17/2015	11:07:36	0	0.192	14.7	3.91	3.718
8/17/2015	15:07:36	0	0.109	14.8	3.91	3.801
8/17/2015	19:07:36	0	0.099	14.8	3.91	3.811
8/17/2015	23:07:36	0	0.203	14.8	3.91	3.707
8/18/2015	3:07:36	0	0.17	14.8	3.91	3.74
8/18/2015	7:07:36	0	0.185	14.8	3.91	3.725
8/18/2015	11:07:36	0	0.115	14.8	3.91	3.795
8/18/2015	15:07:36	0	0.029	14.8	3.91	3.881
8/18/2015	19:07:36	0	0.142	14.8	3.91	3.768
8/18/2015	23:07:36	0	0.17	14.8	3.91	3.74
8/19/2015	3:07:36	0	0.156	14.9	3.91	3.754
8/19/2015	7:07:36	0	0.201	14.9	3.91	3.709
8/19/2015	11:07:36	0	0.135	14.9	3.91	3.775
8/19/2015	15:07:36	0	0.075	14.9	3.91	3.835
8/19/2015	19:07:36	0	0.118	14.9	3.91	3.792
8/19/2015	23:07:36	0	0.2	14.9	3.91	3.71
8/20/2015	3:07:36	0	0.109	14.9	3.91	3.801
8/20/2015	7:07:36	0	0.145	14.9	3.91	3.765
8/20/2015	11:07:36	0	0.147	15	3.91	3.763
8/20/2015	15:07:36	0	0.043	15	3.91	3.867
8/20/2015	19:07:36	0	0.102	15	3.91	3.808
8/20/2015	23:07:36	0	0.184	15	3.91	3.726
8/21/2015	3:07:36	0	0.106	15	3.91	3.804
8/21/2015	7:07:36	0	0.271	15	3.91	3.639
8/21/2015	11:07:36	0	0.14	15	3.91	3.77
8/21/2015	15:07:36	0	0.093	15	3.91	3.817
8/21/2015	19:07:36	0	0.148	15	3.91	3.762
8/21/2015	23:07:36	0	0.208	15	3.91	3.702
8/22/2015	3:07:36	0	0.159	15.1	3.91	3.751
8/22/2015	7:07:36	0	0.212	15.1	3.91	3.698
8/22/2015	11:07:36	0	0.126	15.1	3.91	3.784
8/22/2015	15:07:36	0	0.059	15.1	3.91	3.851
8/22/2015	19:07:36	0	0.121	15.1	3.91	3.789
8/22/2015	23:07:36	0	0.146	15.1	3.91	3.764
8/23/2015	3:07:36	0	0.124	15.1	3.91	3.786
8/23/2015	7:07:36	0	0.161	15.1	3.91	3.749
8/23/2015	11:07:36	0	0.08	15.1	3.91	3.83
8/23/2015	15:07:36	0	0.087	15.1	3.91	3.823
8/23/2015	19:07:36	0	0.059	15.1	3.91	3.851
8/23/2015	23:07:36	0	0.155	15.1	3.91	3.755
8/24/2015	3:07:36	0	0.071	15.1	3.91	3.839
8/24/2015	7:07:36	0	0.197	15.1	3.91	3.713
8/24/2015	11:07:36	0	0.085	15.1	3.91	3.825
8/24/2015	15:07:36	0	0.048	15.1	3.91	3.862
8/24/2015	19:07:36	0	0.096	15.1	3.91	3.814
8/24/2015	23:07:36	0	0.219	15.1	3.91	3.691
8/25/2015	3:07:36	0	0.098	15.1	3.91	3.812
8/25/2015	7:07:36	0	0.161	15.1	3.91	3.749
8/25/2015	11:07:36	0	0.167	15.1	3.91	3.743
8/25/2015	15:07:36	0	0.056	15.1	3.91	3.854
8/25/2015	19:07:36	0	0.153	15.1	3.91	3.757
8/25/2015	23:07:36	0	0.237	15.1	3.91	3.673
8/26/2015	3:07:36	0	0.161	15.1	3.91	3.749
8/26/2015	7:07:36	0	0.203	15.1	3.91	3.707
8/26/2015	11:07:36	0	0.189	15.1	3.91	3.721
8/26/2015	15:07:36	0	0.088	15.1	3.91	3.822
8/26/2015	19:07:36	0	0.145	15.1	3.91	3.765
8/26/2015	23:07:36	0	0.235	15.1	3.91	3.675
8/27/2015	3:07:36	0	0.114	15.1	3.91	3.796
8/27/2015	7:07:36	0	0.248	15.1	3.91	3.662
8/27/2015	11:07:36	0	0.189	15.1	3.91	3.721
8/27/2015	15:07:36	0	0.1	15.1	3.91	3.81

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8/27/2015	19:07:36	0	0.187	15.1	3.91	3.723
8/27/2015	23:07:36	0	0.241	15.1	3.91	3.669
8/28/2015	3:07:36	0	0.153	15.1	3.91	3.757
8/28/2015	7:07:36	0	0.222	15.1	3.91	3.688
8/28/2015	11:07:36	0	0.199	15.1	3.91	3.711
8/28/2015	15:07:36	0	0.06	15.1	3.91	3.85
8/28/2015	19:07:36	0	0.149	15.1	3.91	3.761
8/28/2015	23:07:36	0	0.207	15.1	3.91	3.703
8/29/2015	3:07:36	0	0.136	15.1	3.91	3.774
8/29/2015	7:07:36	0	0.214	15.1	3.91	3.696
8/29/2015	11:07:36	0	0.139	15.1	3.91	3.771
8/29/2015	15:07:36	0	0.002	15	3.91	3.908
8/29/2015	19:07:36	0	0.075	15	3.91	3.835
8/29/2015	23:07:36	0	0.148	15	3.91	3.762
8/30/2015	3:07:36	0	0.1	15	3.91	3.81
8/30/2015	7:07:36	0	0.213	15	3.91	3.697
8/30/2015	11:07:36	0	0.151	15	3.91	3.759
8/30/2015	15:07:36	0	0.046	15	3.91	3.864
8/30/2015	19:07:36	0	0.096	15	3.91	3.814
8/30/2015	23:07:36	0	0.137	14.9	3.91	3.773
8/31/2015	3:07:36	0	0.104	14.9	3.91	3.806
8/31/2015	7:07:36	0	0.163	14.9	3.91	3.747
8/31/2015	11:07:36	0	0.134	14.9	3.91	3.776
8/31/2015	15:07:36	0	0.021	14.9	3.91	3.889
8/31/2015	19:07:36	0	0.17	14.9	3.91	3.74
8/31/2015	23:07:36	0	0.172	14.9	3.91	3.738
9/1/2015	3:07:36	0	0.18	14.9	3.91	3.73
9/1/2015	7:07:36	0	0.224	14.9	3.91	3.686
9/1/2015	11:07:36	0	0.177	14.9	3.91	3.733
9/1/2015	15:07:36	0	0.067	14.9	3.91	3.843
9/1/2015	19:07:36	0	0.117	14.9	3.91	3.793
9/1/2015	23:07:36	0	0.181	14.9	3.91	3.729
9/2/2015	3:07:36	0	0.106	14.9	3.91	3.804
9/2/2015	7:07:36	0	0.169	14.9	3.91	3.741
9/2/2015	11:07:36	0	0.105	14.9	3.91	3.805
9/2/2015	15:07:36	0	0.019	14.9	3.91	3.891
9/2/2015	19:07:36	0	0.063	14.9	3.91	3.847
9/2/2015	23:07:36	0	0.136	14.9	3.91	3.774
9/3/2015	3:07:36	0	0.101	14.9	3.91	3.809
9/3/2015	7:07:36	0	0.201	14.9	3.91	3.709
9/3/2015	11:07:36	0	0.132	14.9	3.91	3.778
9/3/2015	15:07:36	0	0.056	14.9	3.91	3.854
9/3/2015	19:07:36	0	0.177	14.9	3.91	3.733
9/3/2015	23:07:36	0	0.228	14.9	3.91	3.682
9/4/2015	3:07:36	0	0.195	14.9	3.91	3.715
9/4/2015	7:07:36	0	0.321	14.9	3.91	3.589
9/4/2015	11:07:36	0	0.24	14.9	3.91	3.67
9/4/2015	15:07:36	0	0.136	14.9	3.91	3.774
9/4/2015	19:07:36	0	0.188	14.9	3.91	3.722
9/4/2015	23:07:36	0	0.217	14.9	3.91	3.693
9/5/2015	3:07:36	0	0.133	14.9	3.91	3.777
9/5/2015	7:07:36	0	0.275	14.9	3.91	3.635
9/5/2015	11:07:36	0	0.124	14.9	3.91	3.786
9/5/2015	15:07:36	0	0.036	14.9	3.91	3.874
9/5/2015	19:07:36	0	0.109	14.9	3.91	3.801
9/5/2015	23:07:36	0	0.152	14.9	3.91	3.758
9/6/2015	3:07:36	0	0.158	14.9	3.91	3.752
9/6/2015	7:07:36	0	0.2	14.9	3.91	3.71
9/6/2015	11:07:36	0	0.116	14.9	3.91	3.794
9/6/2015	15:07:36	0	0.033	14.9	3.91	3.877
9/6/2015	19:07:36	0	0.073	14.9	3.91	3.837
9/6/2015	23:07:36	0	0.141	14.9	3.91	3.769
9/7/2015	3:07:36	0	0.098	14.9	3.91	3.812
9/7/2015	7:07:36	0	0.181	14.9	3.91	3.729
9/7/2015	11:07:36	0	0.096	14.8	3.91	3.814
9/7/2015	15:07:36	0	0.003	14.8	3.91	3.907
9/7/2015	19:07:36	0	0.064	14.8	3.91	3.846
9/7/2015	23:07:36	0	0.184	14.8	3.91	3.726
9/8/2015	3:07:36	0	0.147	14.8	3.91	3.763
9/8/2015	7:07:36	0	0.198	14.8	3.91	3.712
9/8/2015	11:07:36	0	0.124	14.8	3.91	3.786
9/8/2015	15:07:36	0	0.008	14.8	3.91	3.902
9/8/2015	19:07:36	0	0.097	14.8	3.91	3.813
9/8/2015	23:07:36	0	0.175	14.8	3.91	3.735
9/9/2015	3:07:36	0	0.109	14.8	3.91	3.801
9/9/2015	7:07:36	0	0.143	14.8	3.91	3.767
9/9/2015	11:07:36	0	0.067	14.8	3.91	3.843
9/9/2015	15:07:36	0	-0.026	14.8	3.91	3.936
9/9/2015	19:07:36	0	0.167	14.8	3.91	3.743
9/9/2015	23:07:36	0	0.216	14.8	3.91	3.694
9/10/2015	3:07:36	0	0.093	14.8	3.91	3.817
9/10/2015	7:07:36	0	0.177	14.8	3.91	3.733
9/10/2015	11:07:36	0	0.174	14.8	3.91	3.736
9/10/2015	15:07:36	0	0.027	14.8	3.91	3.883
9/10/2015	19:07:36	0	0.098	14.9	3.91	3.812
9/10/2015	23:07:36	0	0.11	14.9	3.91	3.8
9/11/2015	3:07:36	0	0.067	14.9	3.91	3.843

Ground Water Level Data - 2015
Replication Area E - Well #2
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area E - Well #2
Pittsfield Airport, Pittsfield, MA

9/11/2015	7:07:36	0	0.181	14.9	3.91	3.729
9/11/2015	11:07:36	0	0.157	14.9	3.91	3.753
9/11/2015	15:07:36	0	0.094	14.9	3.91	3.816
9/11/2015	19:07:36	0	0.163	14.9	3.91	3.747
9/11/2015	23:07:36	0	0.202	14.9	3.91	3.708
9/12/2015	3:07:36	0	0.144	14.9	3.91	3.766
9/12/2015	7:07:36	0	0.187	14.9	3.91	3.723
9/12/2015	11:07:36	0	0.116	14.9	3.91	3.794
9/12/2015	15:07:36	0	0.022	14.9	3.91	3.888
9/12/2015	19:07:36	0	0.083	14.9	3.91	3.827
9/12/2015	23:07:36	0	0.055	14.9	3.91	3.855
9/13/2015	3:07:36	0	0.101	14.9	3.91	3.809
9/13/2015	7:07:36	0	0.215	14.9	3.91	3.695
9/13/2015	11:07:36	0	0.178	14.9	3.91	3.732
9/13/2015	15:07:36	0	0.102	14.9	3.91	3.808
9/13/2015	19:07:36	0	0.238	14.9	3.91	3.672
9/13/2015	23:07:36	0	0.282	14.9	3.91	3.628
9/14/2015	3:07:36	0	0.259	14.9	3.91	3.651
9/14/2015	7:07:36	0	0.36	14.9	3.91	3.55
9/14/2015	11:07:36	0	0.415	14.9	3.91	3.495
9/14/2015	15:07:36	0	0.414	14.9	3.91	3.496
9/14/2015	19:07:36	0	0.416	14.9	3.91	3.494
9/14/2015	23:07:36	0	0.432	14.9	3.91	3.478
9/15/2015	3:07:36	0	0.44	14.9	3.91	3.47
9/15/2015	7:07:36	0	0.448	14.9	3.91	3.462
9/15/2015	11:07:36	0	0.414	14.9	3.91	3.496
9/15/2015	15:07:36	0	0.276	14.9	3.91	3.634
9/15/2015	19:07:36	0	0.35	14.9	3.91	3.56
9/15/2015	23:07:36	0	0.394	14.9	3.91	3.516
9/16/2015	3:07:36	0	0.355	14.9	3.91	3.555
9/16/2015	7:07:36	0	0.407	14.9	3.91	3.503
9/16/2015	11:07:36	0	0.346	14.9	3.91	3.564
9/16/2015	15:07:36	0	0.19	14.9	3.91	3.72
9/16/2015	19:07:36	0	0.244	14.8	3.91	3.666
9/16/2015	23:07:36	0	0.327	14.8	3.91	3.583
9/17/2015	3:07:36	0	0.272	14.8	3.91	3.638
9/17/2015	7:07:36	0	0.327	14.8	3.91	3.583
9/17/2015	11:07:36	0	0.265	14.8	3.91	3.645
9/17/2015	15:07:36	0	0.15	14.8	3.91	3.76
9/17/2015	19:07:36	0	0.227	14.8	3.91	3.683
9/17/2015	23:07:36	0	0.27	14.8	3.91	3.64
9/18/2015	3:07:36	0	0.237	14.8	3.91	3.673
9/18/2015	7:07:36	0	0.326	14.8	3.91	3.584
9/18/2015	11:07:36	0	0.234	14.7	3.91	3.676
9/18/2015	15:07:36	0	0.137	14.7	3.91	3.773
9/18/2015	19:07:36	0	0.197	14.7	3.91	3.713
9/18/2015	23:07:36	0	0.255	14.7	3.91	3.655
9/19/2015	3:07:36	0	0.157	14.7	3.91	3.753
9/19/2015	7:07:36	0	0.246	14.7	3.91	3.664
9/19/2015	11:07:36	0	0.148	14.7	3.91	3.762
9/19/2015	15:07:36	0	0.074	14.7	3.91	3.836
9/19/2015	19:07:36	0	0.11	14.7	3.91	3.8
9/19/2015	23:07:36	0	0.177	14.7	3.91	3.733
9/20/2015	3:07:36	0	0.264	14.7	3.91	3.646
9/20/2015	7:07:36	0	0.285	14.7	3.91	3.625
9/20/2015	11:07:36	0	0.297	14.7	3.91	3.613
9/20/2015	15:07:36	0	0.085	14.7	3.91	3.825
9/20/2015	19:07:36	0	0.198	14.7	3.91	3.712
9/20/2015	23:07:36	0	0.209	14.7	3.91	3.701
9/21/2015	3:07:36	0	0.198	14.7	3.91	3.712
9/21/2015	7:07:36	0	0.271	14.7	3.91	3.639
9/21/2015	11:07:36	0	0.223	14.7	3.91	3.687
9/21/2015	15:07:36	0	0.115	14.7	3.91	3.795
9/21/2015	19:07:36	0	0.16	14.7	3.91	3.75
9/21/2015	23:07:36	0	0.18	14.6	3.91	3.73
9/22/2015	3:07:36	0	0.163	14.6	3.91	3.747
9/22/2015	7:07:36	0	0.24	14.6	3.91	3.67
9/22/2015	11:07:36	0	0.156	14.6	3.91	3.754
9/22/2015	15:07:36	0	0.067	14.6	3.91	3.843
9/22/2015	19:07:36	0	0.127	14.6	3.91	3.783
9/22/2015	23:07:36	0	0.146	14.6	3.91	3.764
9/23/2015	3:07:36	0	0.126	14.5	3.91	3.784
9/23/2015	7:07:36	0	0.202	14.5	3.91	3.708
9/23/2015	11:07:36	0	0.157	14.5	3.91	3.753
9/23/2015	15:07:36	0	0.059	14.5	3.91	3.851
9/23/2015	19:07:36	0	0.139	14.5	3.91	3.771
9/23/2015	23:07:36	0	0.173	14.5	3.91	3.737
9/24/2015	3:07:36	0	0.183	14.4	3.91	3.727
9/24/2015	7:07:36	0	0.24	14.4	3.91	3.67
9/24/2015	11:07:36	0	0.216	14.4	3.91	3.694
9/24/2015	15:07:36	0	0.069	14.4	3.91	3.841
9/24/2015	19:07:36	0	0.167	14.4	3.91	3.743
9/24/2015	23:07:36	0	0.219	14.4	3.91	3.691
9/25/2015	3:07:36	0	0.127	14.3	3.91	3.783
9/25/2015	7:07:36	0	0.195	14.3	3.91	3.715
9/25/2015	11:07:36	0	0.186	14.3	3.91	3.724
9/25/2015	15:07:36	0	0.034	14.3	3.91	3.876

Ground Water Level Data - 2015
Replication Area E - Well #2
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area E - Well #2
Pittsfield Airport, Pittsfield, MA

9/25/2015	19:07:36	0	0.132	14.3	3.91	3.778
9/25/2015	23:07:36	0	0.17	14.2	3.91	3.74
9/26/2015	3:07:36	0	0.193	14.2	3.91	3.717
9/26/2015	7:07:36	0	0.25	14.2	3.91	3.66
9/26/2015	11:07:36	0	0.236	14.2	3.91	3.674
9/26/2015	15:07:36	0	0.035	14.2	3.91	3.875
9/26/2015	19:07:36	0	0.166	14.2	3.91	3.744
9/26/2015	23:07:36	0	0.18	14.2	3.91	3.73
9/27/2015	3:07:36	0	0.123	14.1	3.91	3.787
9/27/2015	7:07:36	0	0.187	14.1	3.91	3.723
9/27/2015	11:07:36	0	0.131	14.1	3.91	3.779
9/27/2015	15:07:36	0	-0.025	14.1	3.91	3.935
9/27/2015	19:07:36	0	0.089	14.1	3.91	3.821
9/27/2015	23:07:36	0	0.149	14.1	3.91	3.761
9/28/2015	3:07:36	0	0.072	14	3.91	3.838
9/28/2015	7:07:36	0	0.151	14	3.91	3.759
9/28/2015	11:07:36	0	0.118	14	3.91	3.792
9/28/2015	15:07:36	0	-0.004	14	3.91	3.914
9/28/2015	19:07:36	0	0.072	14	3.91	3.838
9/28/2015	23:07:36	0	0.106	13.9	3.91	3.804
9/29/2015	3:07:36	0	0.09	13.9	3.91	3.82
9/29/2015	7:07:36	0	0.133	13.9	3.91	3.777
9/29/2015	11:07:36	0	0.081	13.9	3.91	3.829
9/29/2015	15:07:36	0	0.018	13.9	3.91	3.892
9/29/2015	19:07:36	0	0.094	13.9	3.91	3.816
9/29/2015	23:07:36	0	0.088	13.9	3.91	3.822
9/30/2015	3:07:36	0	-0.045	13.9	3.91	3.955
9/30/2015	7:07:36	0	-0.156	13.8	3.91	4.066
9/30/2015	11:07:36	0	3.962	14.9	3.91	-0.052
9/30/2015	15:07:36	0	3.88	15.3	3.91	0.03
9/30/2015	19:07:36	0	3.728	15.5	3.91	0.182
9/30/2015	23:07:36	0	3.2	15.4	3.91	0.71
10/1/2015	3:07:36	0	2.543	15.2	3.91	1.367
10/1/2015	7:07:36	0	2.207	15	3.91	1.703
10/1/2015	11:07:36	0	1.895	14.8	3.91	2.015
10/1/2015	15:07:36	0	1.591	14.7	3.91	2.319
10/1/2015	19:07:36	0	1.504	14.5	3.91	2.406
10/1/2015	23:07:36	0	1.347	14.4	3.91	2.563
10/2/2015	3:07:36	0	1.219	14.3	3.91	2.691
10/2/2015	7:07:36	0	1.191	14.3	3.91	2.719
10/2/2015	11:07:36	0	1.091	14.2	3.91	2.819
10/2/2015	15:07:36	0	0.999	14.2	3.91	2.911
10/2/2015	19:07:36	0	0.972	14.2	3.91	2.938
10/2/2015	23:07:36	0	0.907	14.1	3.91	3.003
10/3/2015	3:07:36	0	0.828	14.1	3.91	3.082
10/3/2015	7:07:36	0	0.901	14.1	3.91	3.009
10/3/2015	11:07:36	0	0.804	14.1	3.91	3.106
10/3/2015	15:07:36	0	0.728	14.1	3.91	3.182
10/3/2015	19:07:36	0	0.744	14	3.91	3.166
10/3/2015	23:07:36	0	0.682	14	3.91	3.228
10/4/2015	3:07:36	0	0.622	14	3.91	3.288
10/4/2015	7:07:36	0	0.669	14	3.91	3.241
10/4/2015	11:07:36	0	0.568	13.9	3.91	3.342
10/4/2015	15:07:36	0	0.469	13.9	3.91	3.441
10/4/2015	19:07:36	0	0.52	13.9	3.91	3.39
10/4/2015	23:07:36	0	0.56	13.9	3.91	3.35
10/5/2015	3:07:36	0	0.525	13.9	3.91	3.385
10/5/2015	7:07:36	0	0.532	13.8	3.91	3.378
10/5/2015	11:07:36	0	0.489	13.8	3.91	3.421
10/5/2015	15:07:36	0	0.366	13.8	3.91	3.544
10/5/2015	19:07:36	0	0.433	13.8	3.91	3.477
10/5/2015	23:07:36	0	0.46	13.8	3.91	3.45
10/6/2015	3:07:36	0	0.409	13.7	3.91	3.501
10/6/2015	7:07:36	0	0.455	13.7	3.91	3.455

AVERAGE LEVEL ABOVE LOGGER	**1.151447**
AVERAGE GW DEPTH BELOW GROUND EL	**2.7586**
MINIMUM	-0.296
MAXIMUM	4.066
# of readings less than 2.1'	196

Ground Water Level Data - 2015
Replication Area E - Well #2
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area I - Well #1
Pittsfield Airport, Pittsfield, MA

Serial_number:
1049771
Project ID:
Pittsfield RW 8-26 RSA
Location:
Replication Area I - Well #1
LEVEL
UNIT: ft
Offset: 0.000000 ft
Altitude: 355.000000 ft
Density: 1.000000 kg/L
TEMPERATURE
UNIT: Deg C

Date	Time	ms	Water Level	Water Temp	Ground Level	Ground Water Depth
4/21/2015	12:07:33	0	6.394	4.7	6.5	0.106
4/21/2015	16:07:33	0	6.354	4.5	6.5	0.146
4/21/2015	20:07:33	0	6.385	4.5	6.5	0.115
4/22/2015	0:07:33	0	6.407	4.6	6.5	0.093
4/22/2015	4:07:33	0	6.411	4.6	6.5	0.089
4/22/2015	8:07:33	0	6.394	4.6	6.5	0.106
4/22/2015	12:07:33	0	6.368	4.6	6.5	0.132
4/22/2015	16:07:33	0	6.377	4.7	6.5	0.123
4/22/2015	20:07:33	0	6.415	4.7	6.5	0.085
4/23/2015	0:07:33	0	6.442	4.7	6.5	0.058
4/23/2015	4:07:33	0	6.428	4.7	6.5	0.072
4/23/2015	8:07:33	0	6.424	4.8	6.5	0.076
4/23/2015	12:07:33	0	6.394	4.8	6.5	0.106
4/23/2015	16:07:33	0	6.42	4.8	6.5	0.08
4/23/2015	20:07:33	0	6.424	4.8	6.5	0.076
4/24/2015	0:07:33	0	6.427	4.9	6.5	0.073
4/24/2015	4:07:33	0	6.428	4.9	6.5	0.072
4/24/2015	8:07:33	0	6.42	4.9	6.5	0.08
4/24/2015	12:07:33	0	6.403	4.9	6.5	0.097
4/24/2015	16:07:33	0	6.404	5	6.5	0.096
4/24/2015	20:07:33	0	6.427	5	6.5	0.073
4/25/2015	0:07:33	0	6.417	5	6.5	0.083
4/25/2015	4:07:33	0	6.429	5	6.5	0.071
4/25/2015	8:07:33	0	6.421	5	6.5	0.079
4/25/2015	12:07:33	0	6.378	5.1	6.5	0.122
4/25/2015	16:07:33	0	6.356	5.1	6.5	0.144
4/25/2015	20:07:33	0	6.393	5.1	6.5	0.107
4/26/2015	0:07:33	0	6.412	5.1	6.5	0.088
4/26/2015	4:07:33	0	6.421	5.1	6.5	0.079
4/26/2015	8:07:33	0	6.413	5.1	6.5	0.087
4/26/2015	12:07:33	0	6.38	5.1	6.5	0.12
4/26/2015	16:07:33	0	6.38	5.1	6.5	0.12
4/26/2015	20:07:33	0	6.401	5.1	6.5	0.099
4/27/2015	0:07:33	0	6.398	5.2	6.5	0.102
4/27/2015	4:07:33	0	6.406	5.2	6.5	0.094
4/27/2015	8:07:33	0	6.404	5.2	6.5	0.096
4/27/2015	12:07:33	0	6.374	5.2	6.5	0.126
4/27/2015	16:07:33	0	6.372	5.2	6.5	0.128
4/27/2015	20:07:33	0	6.397	5.2	6.5	0.103
4/28/2015	0:07:33	0	6.399	5.2	6.5	0.101
4/28/2015	4:07:33	0	6.404	5.2	6.5	0.096
4/28/2015	8:07:33	0	6.386	5.2	6.5	0.114
4/28/2015	12:07:33	0	6.352	5.2	6.5	0.148
4/28/2015	16:07:33	0	6.331	5.2	6.5	0.169
4/28/2015	20:07:33	0	6.366	5.3	6.5	0.134
4/29/2015	0:07:33	0	6.398	5.3	6.5	0.102
4/29/2015	4:07:33	0	6.403	5.3	6.5	0.097
4/29/2015	8:07:33	0	6.378	5.3	6.5	0.122
4/29/2015	12:07:33	0	6.338	5.3	6.5	0.162
4/29/2015	16:07:33	0	6.313	5.3	6.5	0.187
4/29/2015	20:07:33	0	6.348	5.3	6.5	0.152
4/30/2015	0:07:33	0	6.368	5.3	6.5	0.132
4/30/2015	4:07:33	0	6.39	5.3	6.5	0.11
4/30/2015	8:07:33	0	6.369	5.4	6.5	0.131
4/30/2015	12:07:33	0	6.334	5.4	6.5	0.166
4/30/2015	16:07:33	0	6.327	5.4	6.5	0.173
4/30/2015	20:07:33	0	6.353	5.4	6.5	0.147
5/1/2015	0:07:33	0	6.38	5.4	6.5	0.12
5/1/2015	4:07:33	0	6.375	5.4	6.5	0.125
5/1/2015	8:07:33	0	6.365	5.5	6.5	0.135
5/1/2015	12:07:33	0	6.329	5.5	6.5	0.171
5/1/2015	16:07:33	0	6.357	5.5	6.5	0.143
5/1/2015	20:07:33	0	6.365	5.5	6.5	0.135
5/2/2015	0:07:33	0	6.388	5.6	6.5	0.112
5/2/2015	4:07:33	0	6.385	5.6	6.5	0.115
5/2/2015	8:07:33	0	6.369	5.6	6.5	0.131
5/2/2015	12:07:33	0	6.323	5.6	6.5	0.177
5/2/2015	16:07:33	0	6.318	5.7	6.5	0.182
5/2/2015	20:07:33	0	6.341	5.7	6.5	0.159
5/3/2015	0:07:33	0	6.354	5.7	6.5	0.146
5/3/2015	4:07:33	0	6.376	5.7	6.5	0.124
5/3/2015	8:07:33	0	6.352	5.8	6.5	0.148

Ground Water Level Data - 2015
Replication Area I - Well #1
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area I - Well #1
Pittsfield Airport, Pittsfield, MA

5/3/2015	12:07:33	0	6.306	5.8	6.5	0.194
5/3/2015	16:07:33	0	6.286	5.8	6.5	0.214
5/3/2015	20:07:33	0	6.313	5.8	6.5	0.187
5/4/2015	0:07:33	0	6.349	5.9	6.5	0.151
5/4/2015	4:07:33	0	6.365	5.9	6.5	0.135
5/4/2015	8:07:33	0	6.343	5.9	6.5	0.157
5/4/2015	12:07:33	0	6.278	6	6.5	0.222
5/4/2015	16:07:33	0	6.265	6	6.5	0.235
5/4/2015	20:07:33	0	6.299	6	6.5	0.201
5/5/2015	0:07:33	0	6.313	6	6.5	0.187
5/5/2015	4:07:33	0	6.327	6.1	6.5	0.173
5/5/2015	8:07:33	0	6.335	6.1	6.5	0.165
5/5/2015	12:07:33	0	6.283	6.1	6.5	0.217
5/5/2015	16:07:33	0	6.269	6.2	6.5	0.231
5/5/2015	20:07:33	0	6.294	6.2	6.5	0.206
5/6/2015	0:07:33	0	6.324	6.2	6.5	0.176
5/6/2015	4:07:33	0	6.335	6.2	6.5	0.165
5/6/2015	8:07:33	0	6.338	6.3	6.5	0.162
5/6/2015	12:07:33	0	6.294	6.3	6.5	0.206
5/6/2015	16:07:33	0	6.253	6.4	6.5	0.247
5/6/2015	20:07:33	0	6.288	6.4	6.5	0.212
5/7/2015	0:07:33	0	6.326	6.4	6.5	0.174
5/7/2015	4:07:33	0	6.338	6.5	6.5	0.162
5/7/2015	8:07:33	0	6.318	6.5	6.5	0.182
5/7/2015	12:07:33	0	6.26	6.6	6.5	0.24
5/7/2015	16:07:33	0	6.237	6.6	6.5	0.263
5/7/2015	20:07:33	0	6.264	6.6	6.5	0.236
5/8/2015	0:07:33	0	6.299	6.7	6.5	0.201
5/8/2015	4:07:33	0	6.312	6.7	6.5	0.188
5/8/2015	8:07:33	0	6.289	6.7	6.5	0.211
5/8/2015	12:07:33	0	6.241	6.8	6.5	0.259
5/8/2015	16:07:33	0	6.202	6.8	6.5	0.298
5/8/2015	20:07:33	0	6.242	6.9	6.5	0.258
5/9/2015	0:07:33	0	6.27	6.9	6.5	0.23
5/9/2015	4:07:33	0	6.28	6.9	6.5	0.22
5/9/2015	8:07:33	0	6.28	7	6.5	0.22
5/9/2015	12:07:33	0	6.218	7	6.5	0.282
5/9/2015	16:07:33	0	6.181	7.1	6.5	0.319
5/9/2015	20:07:33	0	6.212	7.1	6.5	0.288
5/10/2015	0:07:33	0	6.236	7.1	6.5	0.264
5/10/2015	4:07:33	0	6.245	7.2	6.5	0.255
5/10/2015	8:07:33	0	6.236	7.2	6.5	0.264
5/10/2015	12:07:33	0	6.176	7.3	6.5	0.324
5/10/2015	16:07:33	0	6.123	7.3	6.5	0.377
5/10/2015	20:07:33	0	6.153	7.3	6.5	0.347
5/11/2015	0:07:33	0	6.176	7.4	6.5	0.324
5/11/2015	4:07:33	0	6.197	7.4	6.5	0.303
5/11/2015	8:07:33	0	6.19	7.5	6.5	0.31
5/11/2015	12:07:33	0	6.117	7.5	6.5	0.383
5/11/2015	16:07:33	0	6.041	7.6	6.5	0.459
5/11/2015	20:07:33	0	6.06	7.6	6.5	0.44
5/12/2015	0:07:33	0	6.106	7.6	6.5	0.394
5/12/2015	4:07:33	0	6.12	7.7	6.5	0.38
5/12/2015	8:07:33	0	6.137	7.7	6.5	0.363
5/12/2015	12:07:33	0	6.051	7.8	6.5	0.449
5/12/2015	16:07:33	0	5.997	7.8	6.5	0.503
5/12/2015	20:07:33	0	6.217	7.9	6.5	0.283
5/13/2015	0:07:33	0	6.161	7.9	6.5	0.339
5/13/2015	4:07:33	0	6.15	8	6.5	0.35
5/13/2015	8:07:33	0	6.134	8	6.5	0.366
5/13/2015	12:07:33	0	6.115	8.1	6.5	0.385
5/13/2015	16:07:33	0	6.112	8.1	6.5	0.388
5/13/2015	20:07:33	0	6.111	8.2	6.5	0.389
5/14/2015	0:07:33	0	6.157	8.2	6.5	0.343
5/14/2015	4:07:33	0	6.168	8.3	6.5	0.332
5/14/2015	8:07:33	0	6.145	8.3	6.5	0.355
5/14/2015	12:07:33	0	6.063	8.4	6.5	0.437
5/14/2015	16:07:33	0	5.954	8.4	6.5	0.546
5/14/2015	20:07:33	0	5.967	8.5	6.5	0.533
5/15/2015	0:07:33	0	6.019	8.5	6.5	0.481
5/15/2015	4:07:33	0	6.038	8.5	6.5	0.462
5/15/2015	8:07:33	0	6.028	8.6	6.5	0.472
5/15/2015	12:07:33	0	5.946	8.6	6.5	0.554
5/15/2015	16:07:33	0	5.81	8.7	6.5	0.69
5/15/2015	20:07:33	0	5.818	8.7	6.5	0.682
5/16/2015	0:07:33	0	5.86	8.7	6.5	0.64
5/16/2015	4:07:33	0	5.943	8.7	6.5	0.557
5/16/2015	8:07:33	0	6.133	8.8	6.5	0.367
5/16/2015	12:07:33	0	6.048	8.8	6.5	0.452
5/16/2015	16:07:33	0	5.956	8.8	6.5	0.544
5/16/2015	20:07:33	0	5.98	8.9	6.5	0.52
5/17/2015	0:07:33	0	6.015	8.9	6.5	0.485
5/17/2015	4:07:33	0	6.037	8.9	6.5	0.463
5/17/2015	8:07:33	0	6.029	8.9	6.5	0.471
5/17/2015	12:07:33	0	5.893	9	6.5	0.607
5/17/2015	16:07:33	0	5.711	9	6.5	0.789
5/17/2015	20:07:33	0	5.682	9	6.5	0.818

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5/18/2015	0:07:33	0	5.724	9	6.5	0.776
5/18/2015	4:07:33	0	5.743	9	6.5	0.757
5/18/2015	8:07:33	0	5.761	9	6.5	0.739
5/18/2015	12:07:33	0	5.734	9.1	6.5	0.766
5/18/2015	16:07:33	0	5.56	9.1	6.5	0.94
5/18/2015	20:07:33	0	5.494	9.1	6.5	1.006
5/19/2015	0:07:33	0	5.489	9.1	6.5	1.011
5/19/2015	4:07:33	0	5.597	9.2	6.5	0.903
5/19/2015	8:07:33	0	5.71	9.2	6.5	0.79
5/19/2015	12:07:33	0	5.814	9.2	6.5	0.686
5/19/2015	16:07:33	0	5.632	9.3	6.5	0.868
5/19/2015	20:07:33	0	5.536	9.3	6.5	0.964
5/20/2015	0:07:33	0	6.092	9.3	6.5	0.408
5/20/2015	4:07:33	0	6.084	9.3	6.5	0.416
5/20/2015	8:07:33	0	6.058	9.4	6.5	0.442
5/20/2015	12:07:33	0	5.982	9.4	6.5	0.518
5/20/2015	16:07:33	0	5.925	9.4	6.5	0.575
5/20/2015	20:07:33	0	5.852	9.4	6.5	0.648
5/21/2015	0:07:33	0	5.851	9.5	6.5	0.649
5/21/2015	4:07:33	0	5.852	9.5	6.5	0.648
5/21/2015	8:07:33	0	5.836	9.5	6.5	0.664
5/21/2015	12:07:33	0	5.761	9.6	6.5	0.739
5/21/2015	16:07:33	0	5.647	9.6	6.5	0.853
5/21/2015	20:07:33	0	5.561	9.6	6.5	0.939
5/22/2015	0:07:33	0	5.578	9.6	6.5	0.922
5/22/2015	4:07:33	0	5.608	9.7	6.5	0.892
5/22/2015	8:07:33	0	5.607	9.7	6.5	0.893
5/22/2015	12:07:33	0	5.467	9.7	6.5	1.033
5/22/2015	16:07:33	0	5.422	9.7	6.5	1.078
5/22/2015	20:07:33	0	5.422	9.8	6.5	1.078
5/23/2015	0:07:33	0	5.415	9.8	6.5	1.085
5/23/2015	4:07:33	0	5.414	9.8	6.5	1.086
5/23/2015	8:07:33	0	5.374	9.8	6.5	1.126
5/23/2015	12:07:33	0	5.327	9.8	6.5	1.173
5/23/2015	16:07:33	0	5.281	9.9	6.5	1.219
5/23/2015	20:07:33	0	5.275	9.9	6.5	1.225
5/24/2015	0:07:33	0	5.299	9.9	6.5	1.201
5/24/2015	4:07:33	0	5.293	9.9	6.5	1.207
5/24/2015	8:07:33	0	5.253	9.9	6.5	1.247
5/24/2015	12:07:33	0	5.21	9.9	6.5	1.29
5/24/2015	16:07:33	0	5.141	10	6.5	1.359
5/24/2015	20:07:33	0	5.151	10	6.5	1.349
5/25/2015	0:07:33	0	5.173	9.9	6.5	1.327
5/25/2015	4:07:33	0	5.158	10	6.5	1.342
5/25/2015	8:07:33	0	5.135	10	6.5	1.365
5/25/2015	12:07:33	0	5.097	10	6.5	1.403
5/25/2015	16:07:33	0	5.044	10	6.5	1.456
5/25/2015	20:07:33	0	5.053	10	6.5	1.447
5/26/2015	0:07:33	0	5.049	10	6.5	1.451
5/26/2015	4:07:33	0	5.039	10	6.5	1.461
5/26/2015	8:07:33	0	5.018	10	6.5	1.482
5/26/2015	12:07:33	0	4.96	10.1	6.5	1.54
5/26/2015	16:07:33	0	4.937	10.1	6.5	1.563
5/26/2015	20:07:33	0	4.962	10.1	6.5	1.538
5/27/2015	0:07:33	0	4.978	10.1	6.5	1.522
5/27/2015	4:07:33	0	4.976	10.1	6.5	1.524
5/27/2015	8:07:33	0	4.95	10.1	6.5	1.55
5/27/2015	12:07:33	0	4.891	10.1	6.5	1.609
5/27/2015	16:07:33	0	4.869	10.2	6.5	1.631
5/27/2015	20:07:33	0	6.31	10.2	6.5	0.19
5/28/2015	0:07:33	0	6.283	10.2	6.5	0.217
5/28/2015	4:07:33	0	6.273	10.2	6.5	0.227
5/28/2015	8:07:33	0	6.265	10.2	6.5	0.235
5/28/2015	12:07:33	0	6.21	10.3	6.5	0.29
5/28/2015	16:07:33	0	6.292	10.3	6.5	0.208
5/28/2015	20:07:33	0	6.297	10.3	6.5	0.203
5/29/2015	0:07:33	0	6.31	10.3	6.5	0.19
5/29/2015	4:07:33	0	6.307	10.3	6.5	0.193
5/29/2015	8:07:33	0	6.272	10.4	6.5	0.228
5/29/2015	12:07:33	0	6.229	10.4	6.5	0.271
5/29/2015	16:07:33	0	6.164	10.4	6.5	0.336
5/29/2015	20:07:33	0	6.179	10.4	6.5	0.321
5/30/2015	0:07:33	0	6.188	10.4	6.5	0.312
5/30/2015	4:07:33	0	6.182	10.5	6.5	0.318
5/30/2015	8:07:33	0	6.153	10.5	6.5	0.347
5/30/2015	12:07:33	0	6.075	10.5	6.5	0.425
5/30/2015	16:07:33	0	5.958	10.6	6.5	0.542
5/30/2015	20:07:33	0	5.878	10.6	6.5	0.622
5/31/2015	0:07:33	0	5.906	10.6	6.5	0.594
5/31/2015	4:07:33	0	6.168	10.6	6.5	0.332
5/31/2015	8:07:33	0	6.28	10.7	6.5	0.22
5/31/2015	12:07:33	0	6.275	10.7	6.5	0.225
5/31/2015	16:07:33	0	6.278	10.7	6.5	0.222
5/31/2015	20:07:33	0	6.266	10.8	6.5	0.234
6/1/2015	0:07:33	0	6.281	10.8	6.5	0.219
6/1/2015	4:07:33	0	6.321	10.8	6.5	0.179
6/1/2015	8:07:33	0	6.344	10.9	6.5	0.156

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6/1/2015	12:07:33	0	6.392	10.9	6.5	0.108
6/1/2015	16:07:33	0	6.349	10.9	6.5	0.151
6/1/2015	20:07:33	0	6.401	10.9	6.5	0.099
6/2/2015	0:07:33	0	6.386	11	6.5	0.114
6/2/2015	4:07:33	0	6.366	11	6.5	0.134
6/2/2015	8:07:33	0	6.362	11	6.5	0.138
6/2/2015	12:07:33	0	6.336	11.1	6.5	0.164
6/2/2015	16:07:33	0	6.327	11.1	6.5	0.173
6/2/2015	20:07:33	0	6.325	11.1	6.5	0.175
6/3/2015	0:07:33	0	6.328	11.1	6.5	0.172
6/3/2015	4:07:33	0	6.327	11.2	6.5	0.173
6/3/2015	8:07:33	0	6.3	11.2	6.5	0.2
6/3/2015	12:07:33	0	6.27	11.2	6.5	0.23
6/3/2015	16:07:33	0	6.23	11.2	6.5	0.27
6/3/2015	20:07:33	0	6.237	11.2	6.5	0.263
6/4/2015	0:07:33	0	6.253	11.2	6.5	0.247
6/4/2015	4:07:33	0	6.244	11.2	6.5	0.256
6/4/2015	8:07:33	0	6.239	11.3	6.5	0.261
6/4/2015	12:07:33	0	6.214	11.3	6.5	0.286
6/4/2015	16:07:33	0	6.156	11.3	6.5	0.344
6/4/2015	20:07:33	0	6.151	11.3	6.5	0.349
6/5/2015	0:07:33	0	6.159	11.3	6.5	0.341
6/5/2015	4:07:33	0	6.156	11.3	6.5	0.344
6/5/2015	8:07:33	0	6.139	11.3	6.5	0.361
6/5/2015	12:07:33	0	6.071	11.3	6.5	0.429
6/5/2015	16:07:33	0	5.96	11.3	6.5	0.54
6/5/2015	20:07:33	0	5.931	11.3	6.5	0.569
6/6/2015	0:07:33	0	5.929	11.3	6.5	0.571
6/6/2015	4:07:33	0	5.908	11.3	6.5	0.592
6/6/2015	8:07:33	0	6.264	11.3	6.5	0.236
6/6/2015	12:07:33	0	6.217	11.3	6.5	0.283
6/6/2015	16:07:33	0	6.134	11.4	6.5	0.366
6/6/2015	20:07:33	0	6.092	11.4	6.5	0.408
6/7/2015	0:07:33	0	6.101	11.4	6.5	0.399
6/7/2015	4:07:33	0	6.079	11.4	6.5	0.421
6/7/2015	8:07:33	0	6.03	11.4	6.5	0.47
6/7/2015	12:07:33	0	5.946	11.4	6.5	0.554
6/7/2015	16:07:33	0	5.775	11.4	6.5	0.725
6/7/2015	20:07:33	0	5.687	11.4	6.5	0.813
6/8/2015	0:07:33	0	5.661	11.4	6.5	0.839
6/8/2015	4:07:33	0	5.635	11.4	6.5	0.865
6/8/2015	8:07:33	0	5.602	11.4	6.5	0.898
6/8/2015	12:07:33	0	5.901	11.4	6.5	0.599
6/8/2015	16:07:33	0	5.859	11.5	6.5	0.641
6/8/2015	20:07:33	0	5.818	11.5	6.5	0.682
6/9/2015	0:07:33	0	6.349	11.5	6.5	0.151
6/9/2015	4:07:33	0	6.325	11.5	6.5	0.175
6/9/2015	8:07:33	0	6.325	11.5	6.5	0.175
6/9/2015	12:07:33	0	6.289	11.5	6.5	0.211
6/9/2015	16:07:33	0	6.336	11.6	6.5	0.164
6/9/2015	20:07:33	0	6.351	11.6	6.5	0.149
6/10/2015	0:07:33	0	6.335	11.6	6.5	0.165
6/10/2015	4:07:33	0	6.334	11.6	6.5	0.166
6/10/2015	8:07:33	0	6.309	11.6	6.5	0.191
6/10/2015	12:07:33	0	6.276	11.6	6.5	0.224
6/10/2015	16:07:33	0	6.24	11.6	6.5	0.26
6/10/2015	20:07:33	0	6.252	11.6	6.5	0.248
6/11/2015	0:07:33	0	6.277	11.7	6.5	0.223
6/11/2015	4:07:33	0	6.263	11.7	6.5	0.237
6/11/2015	8:07:33	0	6.247	11.7	6.5	0.253
6/11/2015	12:07:33	0	6.201	11.7	6.5	0.299
6/11/2015	16:07:33	0	6.115	11.7	6.5	0.385
6/11/2015	20:07:33	0	6.076	11.7	6.5	0.424
6/12/2015	0:07:33	0	6.069	11.8	6.5	0.431
6/12/2015	4:07:33	0	6.067	11.8	6.5	0.433
6/12/2015	8:07:33	0	6.041	11.8	6.5	0.459
6/12/2015	12:07:33	0	5.947	11.8	6.5	0.553
6/12/2015	16:07:33	0	5.772	11.8	6.5	0.728
6/12/2015	20:07:33	0	5.702	11.8	6.5	0.798
6/13/2015	0:07:33	0	6.341	11.9	6.5	0.159
6/13/2015	4:07:33	0	6.332	11.9	6.5	0.168
6/13/2015	8:07:33	0	6.326	11.9	6.5	0.174
6/13/2015	12:07:33	0	6.285	12	6.5	0.215
6/13/2015	16:07:33	0	6.246	12	6.5	0.254
6/13/2015	20:07:33	0	6.256	12	6.5	0.244
6/14/2015	0:07:33	0	6.266	12	6.5	0.234
6/14/2015	4:07:33	0	6.265	12	6.5	0.235
6/14/2015	8:07:33	0	6.242	12.1	6.5	0.258
6/14/2015	12:07:33	0	6.176	12.1	6.5	0.324
6/14/2015	16:07:33	0	6.049	12.1	6.5	0.451
6/14/2015	20:07:33	0	5.997	12.1	6.5	0.503
6/15/2015	0:07:33	0	6.036	12.2	6.5	0.464
6/15/2015	4:07:33	0	6.33	12.2	6.5	0.17
6/15/2015	8:07:33	0	6.389	12.2	6.5	0.111
6/15/2015	12:07:33	0	6.351	12.2	6.5	0.149
6/15/2015	16:07:33	0	6.32	12.3	6.5	0.18
6/15/2015	20:07:33	0	6.32	12.3	6.5	0.18

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6/16/2015	0:07:33	0	6.322	12.3	6.5	0.178
6/16/2015	4:07:33	0	6.317	12.3	6.5	0.183
6/16/2015	8:07:33	0	6.313	12.4	6.5	0.187
6/16/2015	12:07:33	0	6.283	12.4	6.5	0.217
6/16/2015	16:07:33	0	6.297	12.4	6.5	0.203
6/16/2015	20:07:33	0	6.316	12.4	6.5	0.184
6/17/2015	0:07:33	0	6.328	12.5	6.5	0.172
6/17/2015	4:07:33	0	6.33	12.5	6.5	0.17
6/17/2015	8:07:33	0	6.311	12.5	6.5	0.189
6/17/2015	12:07:33	0	6.277	12.6	6.5	0.223
6/17/2015	16:07:33	0	6.261	12.6	6.5	0.239
6/17/2015	20:07:33	0	6.278	12.6	6.5	0.222
6/18/2015	0:07:33	0	6.29	12.6	6.5	0.21
6/18/2015	4:07:33	0	6.287	12.6	6.5	0.213
6/18/2015	8:07:33	0	6.278	12.6	6.5	0.222
6/18/2015	12:07:33	0	6.26	12.7	6.5	0.24
6/18/2015	16:07:33	0	6.263	12.7	6.5	0.237
6/18/2015	20:07:33	0	6.273	12.7	6.5	0.227
6/19/2015	0:07:33	0	6.287	12.7	6.5	0.213
6/19/2015	4:07:33	0	6.287	12.7	6.5	0.213
6/19/2015	8:07:33	0	6.294	12.7	6.5	0.206
6/19/2015	12:07:33	0	6.271	12.8	6.5	0.229
6/19/2015	16:07:33	0	6.242	12.8	6.5	0.258
6/19/2015	20:07:33	0	6.247	12.8	6.5	0.253
6/20/2015	0:07:33	0	6.267	12.8	6.5	0.233
6/20/2015	4:07:33	0	6.269	12.8	6.5	0.231
6/20/2015	8:07:33	0	6.237	12.8	6.5	0.263
6/20/2015	12:07:33	0	6.18	12.9	6.5	0.32
6/20/2015	16:07:33	0	6.142	12.9	6.5	0.358
6/20/2015	20:07:33	0	6.163	12.9	6.5	0.337
6/21/2015	0:07:33	0	6.243	12.9	6.5	0.257
6/21/2015	4:07:33	0	6.403	12.9	6.5	0.097
6/21/2015	8:07:33	0	6.399	12.9	6.5	0.101
6/21/2015	12:07:33	0	6.356	12.9	6.5	0.144
6/21/2015	16:07:33	0	6.314	13	6.5	0.186
6/21/2015	20:07:33	0	6.326	13	6.5	0.174
6/22/2015	0:07:33	0	6.339	13	6.5	0.161
6/22/2015	4:07:33	0	6.339	13	6.5	0.161
6/22/2015	8:07:33	0	6.337	13	6.5	0.163
6/22/2015	12:07:33	0	6.303	13	6.5	0.197
6/22/2015	16:07:33	0	6.273	13	6.5	0.227
6/22/2015	20:07:33	0	6.292	13	6.5	0.208
6/23/2015	0:07:33	0	6.335	13	6.5	0.165
6/23/2015	4:07:33	0	6.342	13.1	6.5	0.158
6/23/2015	8:07:33	0	6.344	13.1	6.5	0.156
6/23/2015	12:07:33	0	6.331	13.1	6.5	0.169
6/23/2015	16:07:33	0	6.32	13.1	6.5	0.18
6/23/2015	20:07:33	0	6.335	13.1	6.5	0.165
6/24/2015	0:07:33	0	6.342	13.1	6.5	0.158
6/24/2015	4:07:33	0	6.35	13.1	6.5	0.15
6/24/2015	8:07:33	0	6.331	13.1	6.5	0.169
6/24/2015	12:07:33	0	6.317	13.2	6.5	0.183
6/24/2015	16:07:33	0	6.281	13.2	6.5	0.219
6/24/2015	20:07:33	0	6.297	13.2	6.5	0.203
6/25/2015	0:07:33	0	6.327	13.2	6.5	0.173
6/25/2015	4:07:33	0	6.345	13.2	6.5	0.155
6/25/2015	8:07:33	0	6.324	13.2	6.5	0.176
6/25/2015	12:07:33	0	6.289	13.3	6.5	0.211
6/25/2015	16:07:33	0	6.269	13.3	6.5	0.231
6/25/2015	20:07:33	0	6.281	13.3	6.5	0.219
6/26/2015	0:07:33	0	6.297	13.3	6.5	0.203
6/26/2015	4:07:33	0	6.313	13.3	6.5	0.187
6/26/2015	8:07:33	0	6.334	13.3	6.5	0.166
6/26/2015	12:07:33	0	6.298	13.4	6.5	0.202
6/26/2015	16:07:33	0	6.288	13.4	6.5	0.212
6/26/2015	20:07:33	0	6.298	13.4	6.5	0.202
6/27/2015	0:07:33	0	6.323	13.4	6.5	0.177
6/27/2015	4:07:33	0	6.34	13.4	6.5	0.16
6/27/2015	8:07:33	0	6.333	13.4	6.5	0.167
6/27/2015	12:07:33	0	6.303	13.5	6.5	0.197
6/27/2015	16:07:33	0	6.307	13.5	6.5	0.193
6/27/2015	20:07:33	0	6.333	13.5	6.5	0.167
6/28/2015	0:07:33	0	6.388	13.5	6.5	0.112
6/28/2015	4:07:33	0	6.393	13.5	6.5	0.107
6/28/2015	8:07:33	0	6.392	13.5	6.5	0.108
6/28/2015	12:07:33	0	6.361	13.5	6.5	0.139
6/28/2015	16:07:33	0	6.358	13.5	6.5	0.142
6/28/2015	20:07:33	0	6.355	13.5	6.5	0.145
6/29/2015	0:07:33	0	6.36	13.6	6.5	0.14
6/29/2015	4:07:33	0	6.363	13.6	6.5	0.137
6/29/2015	8:07:33	0	6.363	13.6	6.5	0.137
6/29/2015	12:07:33	0	6.338	13.6	6.5	0.162
6/29/2015	16:07:33	0	6.335	13.6	6.5	0.165
6/29/2015	20:07:33	0	6.354	13.6	6.5	0.146
6/30/2015	0:07:33	0	6.365	13.6	6.5	0.135
6/30/2015	4:07:33	0	6.362	13.6	6.5	0.138
6/30/2015	8:07:33	0	6.351	13.6	6.5	0.149

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6/30/2015	12:07:33	0	6.328	13.6	6.5	0.172
6/30/2015	16:07:33	0	6.361	13.6	6.5	0.139
6/30/2015	20:07:33	0	6.348	13.6	6.5	0.152
7/1/2015	0:07:33	0	6.35	13.6	6.5	0.15
7/1/2015	4:07:33	0	6.459	13.6	6.5	0.041
7/1/2015	8:07:33	0	6.396	13.6	6.5	0.104
7/1/2015	12:07:33	0	6.359	13.6	6.5	0.141
7/1/2015	16:07:33	0	6.332	13.6	6.5	0.168
7/1/2015	20:07:33	0	6.384	13.6	6.5	0.116
7/2/2015	0:07:33	0	6.381	13.6	6.5	0.119
7/2/2015	4:07:33	0	6.388	13.6	6.5	0.112
7/2/2015	8:07:33	0	6.368	13.6	6.5	0.132
7/2/2015	12:07:33	0	6.332	13.7	6.5	0.168
7/2/2015	16:07:33	0	6.323	13.6	6.5	0.177
7/2/2015	20:07:33	0	6.353	13.6	6.5	0.147
7/3/2015	0:07:33	0	6.381	13.6	6.5	0.119
7/3/2015	4:07:33	0	6.389	13.6	6.5	0.111
7/3/2015	8:07:33	0	6.362	13.7	6.5	0.138
7/3/2015	12:07:33	0	6.322	13.7	6.5	0.178
7/3/2015	16:07:33	0	6.3	13.7	6.5	0.2
7/3/2015	20:07:33	0	6.346	13.7	6.5	0.154
7/4/2015	0:07:33	0	6.37	13.7	6.5	0.13
7/4/2015	4:07:33	0	6.379	13.7	6.5	0.121
7/4/2015	8:07:33	0	6.371	13.7	6.5	0.129
7/4/2015	12:07:33	0	6.383	13.7	6.5	0.117
7/4/2015	16:07:33	0	6.362	13.7	6.5	0.138
7/4/2015	20:07:33	0	6.364	13.7	6.5	0.136
7/5/2015	0:07:33	0	6.378	13.7	6.5	0.122
7/5/2015	4:07:33	0	6.372	13.7	6.5	0.128
7/5/2015	8:07:33	0	6.361	13.7	6.5	0.139
7/5/2015	12:07:33	0	6.319	13.7	6.5	0.181
7/5/2015	16:07:33	0	6.298	13.7	6.5	0.202
7/5/2015	20:07:33	0	6.334	13.7	6.5	0.166
7/6/2015	0:07:33	0	6.357	13.7	6.5	0.143
7/6/2015	4:07:33	0	6.365	13.7	6.5	0.135
7/6/2015	8:07:33	0	6.358	13.7	6.5	0.142
7/6/2015	12:07:33	0	6.305	13.7	6.5	0.195
7/6/2015	16:07:33	0	6.287	13.7	6.5	0.213
7/6/2015	20:07:33	0	6.315	13.7	6.5	0.185
7/7/2015	0:07:33	0	6.348	13.7	6.5	0.152
7/7/2015	4:07:33	0	6.352	13.7	6.5	0.148
7/7/2015	8:07:33	0	6.341	13.8	6.5	0.159
7/7/2015	12:07:33	0	6.321	13.8	6.5	0.179
7/7/2015	16:07:33	0	6.363	13.8	6.5	0.137
7/7/2015	20:07:33	0	6.36	13.8	6.5	0.14
7/8/2015	0:07:33	0	6.359	13.8	6.5	0.141
7/8/2015	4:07:33	0	6.362	13.8	6.5	0.138
7/8/2015	8:07:33	0	6.357	13.8	6.5	0.143
7/8/2015	12:07:33	0	6.338	13.8	6.5	0.162
7/8/2015	16:07:33	0	6.312	13.8	6.5	0.188
7/8/2015	20:07:33	0	6.333	13.8	6.5	0.167
7/9/2015	0:07:33	0	6.351	13.8	6.5	0.149
7/9/2015	4:07:33	0	6.356	13.8	6.5	0.144
7/9/2015	8:07:33	0	6.356	13.9	6.5	0.144
7/9/2015	12:07:33	0	6.317	13.9	6.5	0.183
7/9/2015	16:07:33	0	6.309	13.9	6.5	0.191
7/9/2015	20:07:33	0	6.353	13.9	6.5	0.147
7/10/2015	0:07:33	0	6.447	13.9	6.5	0.053
7/10/2015	4:07:33	0	6.391	13.9	6.5	0.109
7/10/2015	8:07:33	0	6.375	13.9	6.5	0.125
7/10/2015	12:07:33	0	6.339	14	6.5	0.161
7/10/2015	16:07:33	0	6.314	14	6.5	0.186
7/10/2015	20:07:33	0	6.345	14	6.5	0.155
7/11/2015	0:07:33	0	6.373	14	6.5	0.127
7/11/2015	4:07:33	0	6.379	14	6.5	0.121
7/11/2015	8:07:33	0	6.36	14	6.5	0.14
7/11/2015	12:07:33	0	6.314	14.1	6.5	0.186
7/11/2015	16:07:33	0	6.283	14.1	6.5	0.217
7/11/2015	20:07:33	0	6.32	14.1	6.5	0.18
7/12/2015	0:07:33	0	6.366	14.1	6.5	0.134
7/12/2015	4:07:33	0	6.37	14.1	6.5	0.13
7/12/2015	8:07:33	0	6.354	14.1	6.5	0.146
7/12/2015	12:07:33	0	6.305	14.1	6.5	0.195
7/12/2015	16:07:33	0	6.279	14.2	6.5	0.221
7/12/2015	20:07:33	0	6.302	14.2	6.5	0.198
7/13/2015	0:07:33	0	6.351	14.2	6.5	0.149
7/13/2015	4:07:33	0	6.364	14.2	6.5	0.136
7/13/2015	8:07:33	0	6.351	14.2	6.5	0.149
7/13/2015	12:07:33	0	6.316	14.2	6.5	0.184
7/13/2015	16:07:33	0	6.315	14.2	6.5	0.185
7/13/2015	20:07:33	0	6.338	14.2	6.5	0.162
7/14/2015	0:07:33	0	6.361	14.3	6.5	0.139
7/14/2015	4:07:33	0	6.363	14.3	6.5	0.137
7/14/2015	8:07:33	0	6.356	14.3	6.5	0.144
7/14/2015	12:07:33	0	6.32	14.3	6.5	0.18
7/14/2015	16:07:33	0	6.304	14.3	6.5	0.196
7/14/2015	20:07:33	0	6.313	14.3	6.5	0.187

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7/15/2015	0:07:33	0	6.339	14.4	6.5	0.161
7/15/2015	4:07:33	0	6.349	14.4	6.5	0.151
7/15/2015	8:07:33	0	6.336	14.4	6.5	0.164
7/15/2015	12:07:33	0	6.32	14.4	6.5	0.18
7/15/2015	16:07:33	0	6.28	14.4	6.5	0.22
7/15/2015	20:07:33	0	6.28	14.5	6.5	0.22
7/16/2015	0:07:33	0	6.315	14.5	6.5	0.185
7/16/2015	4:07:33	0	6.337	14.5	6.5	0.163
7/16/2015	8:07:33	0	6.333	14.5	6.5	0.167
7/16/2015	12:07:33	0	6.296	14.5	6.5	0.204
7/16/2015	16:07:33	0	6.243	14.6	6.5	0.257
7/16/2015	20:07:33	0	6.254	14.6	6.5	0.246
7/17/2015	0:07:33	0	6.282	14.6	6.5	0.218
7/17/2015	4:07:33	0	6.298	14.6	6.5	0.202
7/17/2015	8:07:33	0	6.29	14.6	6.5	0.21
7/17/2015	12:07:33	0	6.252	14.6	6.5	0.248
7/17/2015	16:07:33	0	6.217	14.7	6.5	0.283
7/17/2015	20:07:33	0	6.253	14.7	6.5	0.247
7/18/2015	0:07:33	0	6.265	14.7	6.5	0.235
7/18/2015	4:07:33	0	6.334	14.7	6.5	0.166
7/18/2015	8:07:33	0	6.339	14.7	6.5	0.161
7/18/2015	12:07:33	0	6.355	14.7	6.5	0.145
7/18/2015	16:07:33	0	6.31	14.7	6.5	0.19
7/18/2015	20:07:33	0	6.322	14.7	6.5	0.178
7/19/2015	0:07:33	0	6.377	14.8	6.5	0.123
7/19/2015	4:07:33	0	6.363	14.8	6.5	0.137
7/19/2015	8:07:33	0	6.346	14.8	6.5	0.154
7/19/2015	12:07:33	0	6.324	14.8	6.5	0.176
7/19/2015	16:07:33	0	6.307	14.8	6.5	0.193
7/19/2015	20:07:33	0	6.378	14.8	6.5	0.122
7/20/2015	0:07:33	0	6.366	14.8	6.5	0.134
7/20/2015	4:07:33	0	6.365	14.8	6.5	0.135
7/20/2015	8:07:33	0	6.352	14.8	6.5	0.148
7/20/2015	12:07:33	0	6.326	14.8	6.5	0.174
7/20/2015	16:07:33	0	6.283	14.9	6.5	0.217
7/20/2015	20:07:33	0	6.297	14.9	6.5	0.203
7/21/2015	0:07:33	0	6.319	14.9	6.5	0.181
7/21/2015	4:07:33	0	6.331	14.9	6.5	0.169
7/21/2015	8:07:33	0	6.33	14.9	6.5	0.17
7/21/2015	12:07:33	0	6.294	14.9	6.5	0.206
7/21/2015	16:07:33	0	6.237	14.9	6.5	0.263
7/21/2015	20:07:33	0	6.262	14.9	6.5	0.238
7/22/2015	0:07:33	0	6.285	14.9	6.5	0.215
7/22/2015	4:07:33	0	6.298	14.9	6.5	0.202
7/22/2015	8:07:33	0	6.29	15	6.5	0.21
7/22/2015	12:07:33	0	6.242	15	6.5	0.258
7/22/2015	16:07:33	0	6.185	15	6.5	0.315
7/22/2015	20:07:33	0	6.182	15	6.5	0.318
7/23/2015	0:07:33	0	6.21	15	6.5	0.29
7/23/2015	4:07:33	0	6.22	15	6.5	0.28
7/23/2015	8:07:33	0	6.214	15.1	6.5	0.286
7/23/2015	12:07:33	0	6.142	15.1	6.5	0.358
7/23/2015	16:07:33	0	6.024	15.1	6.5	0.476
7/23/2015	20:07:33	0	5.982	15.1	6.5	0.518
7/24/2015	0:07:33	0	6.005	15.1	6.5	0.495
7/24/2015	4:07:33	0	6.014	15.1	6.5	0.486
7/24/2015	8:07:33	0	6.008	15.1	6.5	0.492
7/24/2015	12:07:33	0	5.916	15.2	6.5	0.584
7/24/2015	16:07:33	0	5.78	15.2	6.5	0.72
7/24/2015	20:07:33	0	5.992	15.2	6.5	0.508
7/25/2015	0:07:33	0	6.016	15.2	6.5	0.484
7/25/2015	4:07:33	0	6.027	15.2	6.5	0.473
7/25/2015	8:07:33	0	6.041	15.2	6.5	0.459
7/25/2015	12:07:33	0	5.961	15.2	6.5	0.539
7/25/2015	16:07:33	0	5.75	15.2	6.5	0.75
7/25/2015	20:07:33	0	5.702	15.2	6.5	0.798
7/26/2015	0:07:33	0	5.763	15.2	6.5	0.737
7/26/2015	4:07:33	0	5.807	15.2	6.5	0.693
7/26/2015	8:07:33	0	5.927	15.3	6.5	0.573
7/26/2015	12:07:33	0	5.882	15.3	6.5	0.618
7/26/2015	16:07:33	0	5.676	15.3	6.5	0.824
7/26/2015	20:07:33	0	6.004	15.3	6.5	0.496
7/27/2015	0:07:33	0	6.095	15.3	6.5	0.405
7/27/2015	4:07:33	0	6.1	15.3	6.5	0.4
7/27/2015	8:07:33	0	6.103	15.3	6.5	0.397
7/27/2015	12:07:33	0	6.043	15.4	6.5	0.457
7/27/2015	16:07:33	0	5.91	15.3	6.5	0.59
7/27/2015	20:07:33	0	5.873	15.3	6.5	0.627
7/28/2015	0:07:33	0	5.919	15.3	6.5	0.581
7/28/2015	4:07:33	0	5.936	15.4	6.5	0.564
7/28/2015	8:07:33	0	5.97	15.4	6.5	0.53
7/28/2015	12:07:33	0	5.845	15.4	6.5	0.655
7/28/2015	16:07:33	0	5.627	15.4	6.5	0.873
7/28/2015	20:07:33	0	5.551	15.4	6.5	0.949
7/29/2015	0:07:33	0	5.585	15.4	6.5	0.915
7/29/2015	4:07:33	0	5.606	15.4	6.5	0.894
7/29/2015	8:07:33	0	5.61	15.4	6.5	0.89

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7/29/2015	12:07:33	0	5.501	15.4	6.5	0.999
7/29/2015	16:07:33	0	5.461	15.5	6.5	1.039
7/29/2015	20:07:33	0	5.478	15.5	6.5	1.022
7/30/2015	0:07:33	0	5.525	15.5	6.5	0.975
7/30/2015	4:07:33	0	5.527	15.5	6.5	0.973
7/30/2015	8:07:33	0	5.517	15.5	6.5	0.983
7/30/2015	12:07:33	0	5.486	15.5	6.5	1.014
7/30/2015	16:07:33	0	5.491	15.5	6.5	1.009
7/30/2015	20:07:33	0	5.494	15.5	6.5	1.006
7/31/2015	0:07:33	0	5.511	15.6	6.5	0.989
7/31/2015	4:07:33	0	5.507	15.6	6.5	0.993
7/31/2015	8:07:33	0	5.494	15.6	6.5	1.006
7/31/2015	12:07:33	0	5.445	15.6	6.5	1.055
7/31/2015	16:07:33	0	5.396	15.6	6.5	1.104
7/31/2015	20:07:33	0	5.387	15.7	6.5	1.113
8/1/2015	0:07:33	0	5.394	15.7	6.5	1.106
8/1/2015	4:07:33	0	5.387	15.7	6.5	1.113
8/1/2015	8:07:33	0	5.719	15.7	6.5	0.781
8/1/2015	12:07:33	0	5.836	15.8	6.5	0.664
8/1/2015	16:07:33	0	5.987	15.8	6.5	0.513
8/1/2015	20:07:33	0	5.959	15.8	6.5	0.541
8/2/2015	0:07:33	0	5.969	15.8	6.5	0.531
8/2/2015	4:07:33	0	5.958	15.8	6.5	0.542
8/2/2015	8:07:33	0	5.926	15.8	6.5	0.574
8/2/2015	12:07:33	0	5.849	15.8	6.5	0.651
8/2/2015	16:07:33	0	5.698	15.8	6.5	0.802
8/2/2015	20:07:33	0	5.633	15.8	6.5	0.867
8/3/2015	0:07:33	0	5.622	15.8	6.5	0.878
8/3/2015	4:07:33	0	5.596	15.8	6.5	0.904
8/3/2015	8:07:33	0	5.556	15.8	6.5	0.944
8/3/2015	12:07:33	0	5.494	15.9	6.5	1.006
8/3/2015	16:07:33	0	5.448	15.9	6.5	1.052
8/3/2015	20:07:33	0	5.437	15.9	6.5	1.063
8/4/2015	0:07:33	0	5.424	15.9	6.5	1.076
8/4/2015	4:07:33	0	5.393	15.9	6.5	1.107
8/4/2015	8:07:33	0	5.976	16	6.5	0.524
8/4/2015	12:07:33	0	5.982	16	6.5	0.518
8/4/2015	16:07:33	0	6.018	16	6.5	0.482
8/4/2015	20:07:33	0	6.069	16	6.5	0.431
8/5/2015	0:07:33	0	6.058	16	6.5	0.442
8/5/2015	4:07:33	0	6.043	16	6.5	0.457
8/5/2015	8:07:33	0	6.019	16	6.5	0.481
8/5/2015	12:07:33	0	5.952	16	6.5	0.548
8/5/2015	16:07:33	0	5.849	16	6.5	0.651
8/5/2015	20:07:33	0	5.757	16	6.5	0.743
8/6/2015	0:07:33	0	5.723	16	6.5	0.777
8/6/2015	4:07:33	0	5.696	16	6.5	0.804
8/6/2015	8:07:33	0	5.663	16	6.5	0.837
8/6/2015	12:07:33	0	5.583	16	6.5	0.917
8/6/2015	16:07:33	0	5.52	16	6.5	0.98
8/6/2015	20:07:33	0	5.49	16	6.5	1.01
8/7/2015	0:07:33	0	5.479	16	6.5	1.021
8/7/2015	4:07:33	0	5.47	16	6.5	1.03
8/7/2015	8:07:33	0	5.429	16.1	6.5	1.071
8/7/2015	12:07:33	0	5.366	16.1	6.5	1.134
8/7/2015	16:07:33	0	5.298	16.1	6.5	1.202
8/7/2015	20:07:33	0	5.268	16.1	6.5	1.232
8/8/2015	0:07:33	0	5.242	16.1	6.5	1.258
8/8/2015	4:07:33	0	5.213	16.1	6.5	1.287
8/8/2015	8:07:33	0	5.167	16.1	6.5	1.333
8/8/2015	12:07:33	0	5.1	16.1	6.5	1.4
8/8/2015	16:07:33	0	5.053	16.1	6.5	1.447
8/8/2015	20:07:33	0	5.02	16.1	6.5	1.48
8/9/2015	0:07:33	0	5.009	16.1	6.5	1.491
8/9/2015	4:07:33	0	4.981	16.1	6.5	1.519
8/9/2015	8:07:33	0	4.954	16.1	6.5	1.546
8/9/2015	12:07:33	0	4.85	16.1	6.5	1.65
8/9/2015	16:07:33	0	4.817	16.2	6.5	1.683
8/9/2015	20:07:33	0	4.839	16.1	6.5	1.661
8/10/2015	0:07:33	0	4.838	16.1	6.5	1.662
8/10/2015	4:07:33	0	4.813	16.1	6.5	1.687
8/10/2015	8:07:33	0	4.772	16.1	6.5	1.728
8/10/2015	12:07:33	0	4.698	16.1	6.5	1.802
8/10/2015	16:07:33	0	4.662	16.1	6.5	1.838
8/10/2015	20:07:33	0	4.672	16.1	6.5	1.828
8/11/2015	0:07:33	0	4.653	16.1	6.5	1.847
8/11/2015	4:07:33	0	4.631	16.1	6.5	1.869
8/11/2015	8:07:33	0	4.608	16.1	6.5	1.892
8/11/2015	12:07:33	0	6.314	16.2	6.5	0.186
8/11/2015	16:07:33	0	6.269	16.2	6.5	0.231
8/11/2015	20:07:33	0	6.343	16.2	6.5	0.157
8/12/2015	0:07:33	0	6.352	16.2	6.5	0.148
8/12/2015	4:07:33	0	6.336	16.2	6.5	0.164
8/12/2015	8:07:33	0	6.331	16.2	6.5	0.169
8/12/2015	12:07:33	0	6.302	16.2	6.5	0.198
8/12/2015	16:07:33	0	6.262	16.2	6.5	0.238
8/12/2015	20:07:33	0	6.269	16.2	6.5	0.231

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8/13/2015	0:07:33	0	6.277	16.1	6.5	0.223
8/13/2015	4:07:33	0	6.275	16.1	6.5	0.225
8/13/2015	8:07:33	0	6.252	16.1	6.5	0.248
8/13/2015	12:07:33	0	6.187	16.1	6.5	0.313
8/13/2015	16:07:33	0	6.105	16.1	6.5	0.395
8/13/2015	20:07:33	0	6.099	16.1	6.5	0.401
8/14/2015	0:07:33	0	6.087	16.1	6.5	0.413
8/14/2015	4:07:33	0	6.073	16.1	6.5	0.427
8/14/2015	8:07:33	0	6.044	16.1	6.5	0.456
8/14/2015	12:07:33	0	5.966	16.1	6.5	0.534
8/14/2015	16:07:33	0	5.821	16.1	6.5	0.679
8/14/2015	20:07:33	0	5.741	16.1	6.5	0.759
8/15/2015	0:07:33	0	5.708	16.1	6.5	0.792
8/15/2015	4:07:33	0	5.666	16.1	6.5	0.834
8/15/2015	8:07:33	0	5.642	16.1	6.5	0.858
8/15/2015	12:07:33	0	5.558	16.1	6.5	0.942
8/15/2015	16:07:33	0	5.5	16.1	6.5	1
8/15/2015	20:07:33	0	5.534	16.1	6.5	0.966
8/16/2015	0:07:33	0	5.611	16.1	6.5	0.889
8/16/2015	4:07:33	0	5.628	16.1	6.5	0.872
8/16/2015	8:07:33	0	5.625	16.1	6.5	0.875
8/16/2015	12:07:33	0	5.562	16.2	6.5	0.938
8/16/2015	16:07:33	0	5.493	16.2	6.5	1.007
8/16/2015	20:07:33	0	5.5	16.2	6.5	1
8/17/2015	0:07:33	0	5.504	16.1	6.5	0.996
8/17/2015	4:07:33	0	5.488	16.2	6.5	1.012
8/17/2015	8:07:33	0	5.475	16.2	6.5	1.025
8/17/2015	12:07:33	0	5.41	16.2	6.5	1.09
8/17/2015	16:07:33	0	5.362	16.2	6.5	1.138
8/17/2015	20:07:33	0	5.371	16.2	6.5	1.129
8/18/2015	0:07:33	0	5.364	16.2	6.5	1.136
8/18/2015	4:07:33	0	5.339	16.2	6.5	1.161
8/18/2015	8:07:33	0	5.303	16.2	6.5	1.197
8/18/2015	12:07:33	0	5.216	16.2	6.5	1.284
8/18/2015	16:07:33	0	5.162	16.3	6.5	1.338
8/18/2015	20:07:33	0	5.166	16.2	6.5	1.334
8/19/2015	0:07:33	0	5.134	16.2	6.5	1.366
8/19/2015	4:07:33	0	5.098	16.3	6.5	1.402
8/19/2015	8:07:33	0	5.038	16.3	6.5	1.462
8/19/2015	12:07:33	0	4.935	16.3	6.5	1.565
8/19/2015	16:07:33	0	4.869	16.3	6.5	1.631
8/19/2015	20:07:33	0	4.868	16.3	6.5	1.632
8/20/2015	0:07:33	0	4.843	16.3	6.5	1.657
8/20/2015	4:07:33	0	4.798	16.3	6.5	1.702
8/20/2015	8:07:33	0	4.742	16.3	6.5	1.758
8/20/2015	12:07:33	0	4.641	16.4	6.5	1.859
8/20/2015	16:07:33	0	4.573	16.4	6.5	1.927
8/20/2015	20:07:33	0	4.581	16.4	6.5	1.919
8/21/2015	0:07:33	0	4.542	16.4	6.5	1.958
8/21/2015	4:07:33	0	4.495	16.4	6.5	2.005
8/21/2015	8:07:33	0	4.455	16.4	6.5	2.045
8/21/2015	12:07:33	0	4.763	16.5	6.5	1.737
8/21/2015	16:07:33	0	4.713	16.5	6.5	1.787
8/21/2015	20:07:33	0	4.753	16.5	6.5	1.747
8/22/2015	0:07:33	0	4.773	16.5	6.5	1.727
8/22/2015	4:07:33	0	4.778	16.5	6.5	1.722
8/22/2015	8:07:33	0	4.778	16.5	6.5	1.722
8/22/2015	12:07:33	0	4.739	16.5	6.5	1.761
8/22/2015	16:07:33	0	4.729	16.5	6.5	1.771
8/22/2015	20:07:33	0	4.766	16.5	6.5	1.734
8/23/2015	0:07:33	0	4.797	16.5	6.5	1.703
8/23/2015	4:07:33	0	4.803	16.5	6.5	1.697
8/23/2015	8:07:33	0	4.784	16.6	6.5	1.716
8/23/2015	12:07:33	0	4.724	16.6	6.5	1.776
8/23/2015	16:07:33	0	4.68	16.6	6.5	1.82
8/23/2015	20:07:33	0	4.713	16.6	6.5	1.787
8/24/2015	0:07:33	0	4.713	16.6	6.5	1.787
8/24/2015	4:07:33	0	4.7	16.6	6.5	1.8
8/24/2015	8:07:33	0	4.664	16.6	6.5	1.836
8/24/2015	12:07:33	0	4.588	16.7	6.5	1.912
8/24/2015	16:07:33	0	4.538	16.7	6.5	1.962
8/24/2015	20:07:33	0	4.567	16.7	6.5	1.933
8/25/2015	0:07:33	0	4.545	16.7	6.5	1.955
8/25/2015	4:07:33	0	4.496	16.7	6.5	2.004
8/25/2015	8:07:33	0	5.355	16.7	6.5	1.145
8/25/2015	12:07:33	0	5.69	16.8	6.5	0.81
8/25/2015	16:07:33	0	5.792	16.9	6.5	0.708
8/25/2015	20:07:33	0	5.807	16.8	6.5	0.693
8/26/2015	0:07:33	0	5.777	16.8	6.5	0.723
8/26/2015	4:07:33	0	5.735	16.8	6.5	0.765
8/26/2015	8:07:33	0	5.687	16.8	6.5	0.813
8/26/2015	12:07:33	0	5.588	16.8	6.5	0.912
8/26/2015	16:07:33	0	5.486	16.8	6.5	1.014
8/26/2015	20:07:33	0	5.455	16.7	6.5	1.045
8/27/2015	0:07:33	0	5.412	16.7	6.5	1.088
8/27/2015	4:07:33	0	5.371	16.7	6.5	1.129
8/27/2015	8:07:33	0	5.333	16.7	6.5	1.167

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8/27/2015	12:07:33	0	5.273	16.7	6.5	1.227
8/27/2015	16:07:33	0	5.233	16.8	6.5	1.267
8/27/2015	20:07:33	0	5.226	16.7	6.5	1.274
8/28/2015	0:07:33	0	5.201	16.7	6.5	1.299
8/28/2015	4:07:33	0	5.181	16.7	6.5	1.319
8/28/2015	8:07:33	0	5.146	16.7	6.5	1.354
8/28/2015	12:07:33	0	5.074	16.8	6.5	1.426
8/28/2015	16:07:33	0	5.027	16.8	6.5	1.473
8/28/2015	20:07:33	0	5.047	16.8	6.5	1.453
8/29/2015	0:07:33	0	5.032	16.8	6.5	1.468
8/29/2015	4:07:33	0	5.007	16.8	6.5	1.493
8/29/2015	8:07:33	0	4.966	16.8	6.5	1.534
8/29/2015	12:07:33	0	4.889	16.8	6.5	1.611
8/29/2015	16:07:33	0	4.84	16.8	6.5	1.66
8/29/2015	20:07:33	0	4.864	16.8	6.5	1.636
8/30/2015	0:07:33	0	4.858	16.8	6.5	1.642
8/30/2015	4:07:33	0	4.84	16.7	6.5	1.66
8/30/2015	8:07:33	0	4.794	16.7	6.5	1.706
8/30/2015	12:07:33	0	4.728	16.8	6.5	1.772
8/30/2015	16:07:33	0	4.657	16.8	6.5	1.843
8/30/2015	20:07:33	0	4.666	16.7	6.5	1.834
8/31/2015	0:07:33	0	4.652	16.7	6.5	1.848
8/31/2015	4:07:33	0	4.61	16.7	6.5	1.89
8/31/2015	8:07:33	0	4.562	16.7	6.5	1.938
8/31/2015	12:07:33	0	4.456	16.7	6.5	2.044
8/31/2015	16:07:33	0	4.4	16.7	6.5	2.1
8/31/2015	20:07:33	0	4.392	16.7	6.5	2.108
9/1/2015	0:07:33	0	4.351	16.7	6.5	2.149
9/1/2015	4:07:33	0	4.302	16.7	6.5	2.198
9/1/2015	8:07:33	0	4.235	16.7	6.5	2.265
9/1/2015	12:07:33	0	4.096	16.7	6.5	2.404
9/1/2015	16:07:33	0	4.01	16.7	6.5	2.49
9/1/2015	20:07:33	0	4.022	16.7	6.5	2.478
9/2/2015	0:07:33	0	3.974	16.6	6.5	2.526
9/2/2015	4:07:33	0	3.914	16.6	6.5	2.586
9/2/2015	8:07:33	0	3.83	16.6	6.5	2.67
9/2/2015	12:07:33	0	3.694	16.7	6.5	2.806
9/2/2015	16:07:33	0	3.604	16.7	6.5	2.896
9/2/2015	20:07:33	0	3.606	16.6	6.5	2.894
9/3/2015	0:07:33	0	3.569	16.6	6.5	2.931
9/3/2015	4:07:33	0	3.516	16.6	6.5	2.984
9/3/2015	8:07:33	0	3.446	16.6	6.5	3.054
9/3/2015	12:07:33	0	3.291	16.7	6.5	3.209
9/3/2015	16:07:33	0	3.216	16.7	6.5	3.284
9/3/2015	20:07:33	0	3.195	16.6	6.5	3.305
9/4/2015	0:07:33	0	3.161	16.6	6.5	3.339
9/4/2015	4:07:33	0	3.102	16.6	6.5	3.398
9/4/2015	8:07:33	0	3.014	16.6	6.5	3.486
9/4/2015	12:07:33	0	2.852	16.7	6.5	3.648
9/4/2015	16:07:33	0	2.761	16.7	6.5	3.739
9/4/2015	20:07:33	0	2.752	16.6	6.5	3.748
9/5/2015	0:07:33	0	2.722	16.6	6.5	3.778
9/5/2015	4:07:33	0	2.66	16.6	6.5	3.84
9/5/2015	8:07:33	0	2.588	16.6	6.5	3.912
9/5/2015	12:07:33	0	2.41	16.7	6.5	4.09
9/5/2015	16:07:33	0	2.321	16.7	6.5	4.179
9/5/2015	20:07:33	0	2.333	16.6	6.5	4.167
9/6/2015	0:07:33	0	2.32	16.6	6.5	4.18
9/6/2015	4:07:33	0	2.272	16.6	6.5	4.228
9/6/2015	8:07:33	0	2.207	16.6	6.5	4.293
9/6/2015	12:07:33	0	2.045	16.7	6.5	4.455
9/6/2015	16:07:33	0	1.969	16.7	6.5	4.531
9/6/2015	20:07:33	0	1.971	16.7	6.5	4.529
9/7/2015	0:07:33	0	1.966	16.6	6.5	4.534
9/7/2015	4:07:33	0	1.926	16.6	6.5	4.574
9/7/2015	8:07:33	0	1.862	16.6	6.5	4.638
9/7/2015	12:07:33	0	1.697	16.7	6.5	4.803
9/7/2015	16:07:33	0	1.629	16.7	6.5	4.871
9/7/2015	20:07:33	0	1.623	16.7	6.5	4.877
9/8/2015	0:07:33	0	1.612	16.6	6.5	4.888
9/8/2015	4:07:33	0	1.566	16.6	6.5	4.934
9/8/2015	8:07:33	0	1.516	16.6	6.5	4.984
9/8/2015	12:07:33	0	1.358	16.7	6.5	5.142
9/8/2015	16:07:33	0	1.299	16.6	6.5	5.201
9/8/2015	20:07:33	0	1.291	16.6	6.5	5.209
9/9/2015	0:07:33	0	1.279	16.6	6.5	5.221
9/9/2015	4:07:33	0	1.249	16.6	6.5	5.251
9/9/2015	8:07:33	0	1.202	16.6	6.5	5.298
9/9/2015	12:07:33	0	1.045	16.6	6.5	5.455
9/9/2015	16:07:33	0	1.025	16.6	6.5	5.475
9/9/2015	20:07:33	0	0.996	16.6	6.5	5.504
9/10/2015	0:07:33	0	0.975	16.6	6.5	5.525
9/10/2015	4:07:33	0	0.935	16.6	6.5	5.565
9/10/2015	8:07:33	0	0.896	16.6	6.5	5.604
9/10/2015	12:07:33	0	0.843	16.6	6.5	5.657
9/10/2015	16:07:33	0	0.797	16.6	6.5	5.703
9/10/2015	20:07:33	0	0.791	16.6	6.5	5.709

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9/11/2015	0:07:33	0	0.775	16.6	6.5	5.725
9/11/2015	4:07:33	0	0.772	16.6	6.5	5.728
9/11/2015	8:07:33	0	0.765	16.6	6.5	5.735
9/11/2015	12:07:33	0	0.693	16.6	6.5	5.807
9/11/2015	16:07:33	0	0.688	16.6	6.5	5.812
9/11/2015	20:07:33	0	0.769	16.6	6.5	5.731
9/12/2015	0:07:33	0	0.839	16.6	6.5	5.661
9/12/2015	4:07:33	0	0.875	16.6	6.5	5.625
9/12/2015	8:07:33	0	0.908	16.6	6.5	5.592
9/12/2015	12:07:33	0	0.859	16.6	6.5	5.641
9/12/2015	16:07:33	0	0.901	16.6	6.5	5.599
9/12/2015	20:07:33	0	2.179	16.6	6.5	4.321
9/13/2015	0:07:33	0	4.151	16.7	6.5	2.349
9/13/2015	4:07:33	0	6.109	16.8	6.5	0.391
9/13/2015	8:07:33	0	6.321	16.8	6.5	0.179
9/13/2015	12:07:33	0	6.294	16.8	6.5	0.206
9/13/2015	16:07:33	0	6.256	16.8	6.5	0.244
9/13/2015	20:07:33	0	6.309	16.8	6.5	0.191
9/14/2015	0:07:33	0	6.304	16.8	6.5	0.196
9/14/2015	4:07:33	0	6.302	16.8	6.5	0.198
9/14/2015	8:07:33	0	6.296	16.8	6.5	0.204
9/14/2015	12:07:33	0	6.294	16.8	6.5	0.206
9/14/2015	16:07:33	0	6.276	16.8	6.5	0.224
9/14/2015	20:07:33	0	6.261	16.8	6.5	0.239
9/15/2015	0:07:33	0	6.254	16.8	6.5	0.246
9/15/2015	4:07:33	0	6.241	16.7	6.5	0.259
9/15/2015	8:07:33	0	6.217	16.7	6.5	0.283
9/15/2015	12:07:33	0	6.149	16.7	6.5	0.351
9/15/2015	16:07:33	0	6.065	16.7	6.5	0.435
9/15/2015	20:07:33	0	6.065	16.7	6.5	0.435
9/16/2015	0:07:33	0	6.043	16.7	6.5	0.457
9/16/2015	4:07:33	0	6.017	16.7	6.5	0.483
9/16/2015	8:07:33	0	5.985	16.7	6.5	0.515
9/16/2015	12:07:33	0	5.911	16.7	6.5	0.589
9/16/2015	16:07:33	0	5.746	16.7	6.5	0.754
9/16/2015	20:07:33	0	5.715	16.6	6.5	0.785
9/17/2015	0:07:33	0	5.673	16.6	6.5	0.827
9/17/2015	4:07:33	0	5.627	16.6	6.5	0.873
9/17/2015	8:07:33	0	5.597	16.6	6.5	0.903
9/17/2015	12:07:33	0	5.513	16.6	6.5	0.987
9/17/2015	16:07:33	0	5.393	16.6	6.5	1.107
9/17/2015	20:07:33	0	5.377	16.5	6.5	1.123
9/18/2015	0:07:33	0	5.324	16.5	6.5	1.176
9/18/2015	4:07:33	0	5.274	16.5	6.5	1.226
9/18/2015	8:07:33	0	5.234	16.5	6.5	1.266
9/18/2015	12:07:33	0	5.146	16.5	6.5	1.354
9/18/2015	16:07:33	0	5.087	16.5	6.5	1.413
9/18/2015	20:07:33	0	5.119	16.5	6.5	1.381
9/19/2015	0:07:33	0	5.11	16.4	6.5	1.39
9/19/2015	4:07:33	0	5.093	16.4	6.5	1.407
9/19/2015	8:07:33	0	5.06	16.4	6.5	1.44
9/19/2015	12:07:33	0	4.993	16.4	6.5	1.507
9/19/2015	16:07:33	0	4.963	16.4	6.5	1.537
9/19/2015	20:07:33	0	4.994	16.4	6.5	1.506
9/20/2015	0:07:33	0	4.987	16.4	6.5	1.513
9/20/2015	4:07:33	0	4.971	16.4	6.5	1.529
9/20/2015	8:07:33	0	4.95	16.4	6.5	1.55
9/20/2015	12:07:33	0	4.893	16.4	6.5	1.607
9/20/2015	16:07:33	0	4.847	16.4	6.5	1.653
9/20/2015	20:07:33	0	4.869	16.3	6.5	1.631
9/21/2015	0:07:33	0	4.851	16.3	6.5	1.649
9/21/2015	4:07:33	0	4.831	16.3	6.5	1.669
9/21/2015	8:07:33	0	4.794	16.3	6.5	1.706
9/21/2015	12:07:33	0	4.714	16.3	6.5	1.786
9/21/2015	16:07:33	0	4.687	16.3	6.5	1.813
9/21/2015	20:07:33	0	4.688	16.3	6.5	1.812
9/22/2015	0:07:33	0	4.663	16.3	6.5	1.837
9/22/2015	4:07:33	0	4.63	16.3	6.5	1.87
9/22/2015	8:07:33	0	4.597	16.3	6.5	1.903
9/22/2015	12:07:33	0	4.545	16.3	6.5	1.955
9/22/2015	16:07:33	0	4.505	16.3	6.5	1.995
9/22/2015	20:07:33	0	4.509	16.3	6.5	1.991
9/23/2015	0:07:33	0	4.496	16.2	6.5	2.004
9/23/2015	4:07:33	0	4.472	16.2	6.5	2.028
9/23/2015	8:07:33	0	4.441	16.2	6.5	2.059
9/23/2015	12:07:33	0	4.358	16.2	6.5	2.142
9/23/2015	16:07:33	0	4.297	16.2	6.5	2.203
9/23/2015	20:07:33	0	4.333	16.2	6.5	2.167
9/24/2015	0:07:33	0	4.317	16.2	6.5	2.183
9/24/2015	4:07:33	0	4.285	16.2	6.5	2.215
9/24/2015	8:07:33	0	4.242	16.2	6.5	2.258
9/24/2015	12:07:33	0	4.139	16.2	6.5	2.361
9/24/2015	16:07:33	0	4.063	16.2	6.5	2.437
9/24/2015	20:07:33	0	4.075	16.1	6.5	2.425
9/25/2015	0:07:33	0	4.062	16.1	6.5	2.438
9/25/2015	4:07:33	0	4.027	16.1	6.5	2.473
9/25/2015	8:07:33	0	3.985	16.1	6.5	2.515

Ground Water Level Data - 2015
Replication Area I - Well #1
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area I - Well #1
Pittsfield Airport, Pittsfield, MA

9/25/2015	12:07:33	0	3.89	16.1	6.5	2.61
9/25/2015	16:07:33	0	3.805	16.1	6.5	2.695
9/25/2015	20:07:33	0	3.825	16	6.5	2.675
9/26/2015	0:07:33	0	3.798	16	6.5	2.702
9/26/2015	4:07:33	0	3.751	16	6.5	2.749
9/26/2015	8:07:33	0	3.703	16	6.5	2.797
9/26/2015	12:07:33	0	3.598	16	6.5	2.902
9/26/2015	16:07:33	0	3.505	16	6.5	2.995
9/26/2015	20:07:33	0	3.542	15.9	6.5	2.958
9/27/2015	0:07:33	0	3.524	15.9	6.5	2.976
9/27/2015	4:07:33	0	3.485	15.9	6.5	3.015
9/27/2015	8:07:33	0	3.443	15.9	6.5	3.057
9/27/2015	12:07:33	0	3.33	15.9	6.5	3.17
9/27/2015	16:07:33	0	3.23	15.9	6.5	3.27
9/27/2015	20:07:33	0	3.29	15.8	6.5	3.21
9/28/2015	0:07:33	0	3.269	15.8	6.5	3.231
9/28/2015	4:07:33	0	3.22	15.8	6.5	3.28
9/28/2015	8:07:33	0	3.165	15.8	6.5	3.335
9/28/2015	12:07:33	0	3.065	15.8	6.5	3.435
9/28/2015	16:07:33	0	2.994	15.8	6.5	3.506
9/28/2015	20:07:33	0	3.012	15.8	6.5	3.488
9/29/2015	0:07:33	0	2.995	15.7	6.5	3.505
9/29/2015	4:07:33	0	2.957	15.7	6.5	3.543
9/29/2015	8:07:33	0	2.923	15.7	6.5	3.577
9/29/2015	12:07:33	0	2.827	15.7	6.5	3.673
9/29/2015	16:07:33	0	2.806	15.7	6.5	3.694
9/29/2015	20:07:33	0	2.792	15.6	6.5	3.708
9/30/2015	0:07:33	0	2.765	15.6	6.5	3.735
9/30/2015	4:07:33	0	3.433	15.6	6.5	3.067
9/30/2015	8:07:33	0	6.441	15.6	6.5	0.059
9/30/2015	12:07:33	0	6.37	15.6	6.5	0.13
9/30/2015	16:07:33	0	6.342	15.6	6.5	0.158
9/30/2015	20:07:33	0	6.34	15.6	6.5	0.16
10/1/2015	0:07:33	0	6.331	15.6	6.5	0.169
10/1/2015	4:07:33	0	6.321	15.6	6.5	0.179
10/1/2015	8:07:33	0	6.306	15.5	6.5	0.194
10/1/2015	12:07:33	0	6.281	15.5	6.5	0.219
10/1/2015	16:07:33	0	6.268	15.5	6.5	0.232
10/1/2015	20:07:33	0	6.272	15.5	6.5	0.228
10/2/2015	0:07:33	0	6.256	15.5	6.5	0.244
10/2/2015	4:07:33	0	6.247	15.5	6.5	0.253
10/2/2015	8:07:33	0	6.232	15.5	6.5	0.268
10/2/2015	12:07:33	0	6.194	15.5	6.5	0.306
10/2/2015	16:07:33	0	6.175	15.5	6.5	0.325
10/2/2015	20:07:33	0	6.165	15.4	6.5	0.335
10/3/2015	0:07:33	0	6.157	15.4	6.5	0.343
10/3/2015	4:07:33	0	6.132	15.4	6.5	0.368
10/3/2015	8:07:33	0	6.12	15.3	6.5	0.38
10/3/2015	12:07:33	0	6.104	15.3	6.5	0.396
10/3/2015	16:07:33	0	6.062	15.3	6.5	0.438
10/3/2015	20:07:33	0	6.038	15.3	6.5	0.462
10/4/2015	0:07:33	0	6.014	15.3	6.5	0.486
10/4/2015	4:07:33	0	5.99	15.2	6.5	0.51
10/4/2015	8:07:33	0	5.955	15.2	6.5	0.545
10/4/2015	12:07:33	0	5.906	15.2	6.5	0.594
10/4/2015	16:07:33	0	5.816	15.2	6.5	0.684
10/4/2015	20:07:33	0	5.804	15.2	6.5	0.696
10/5/2015	0:07:33	0	5.768	15.2	6.5	0.732
10/5/2015	4:07:33	0	5.743	15.1	6.5	0.757
10/5/2015	8:07:33	0	5.715	15.1	6.5	0.785
10/5/2015	12:07:33	0	5.665	15.1	6.5	0.835
10/5/2015	16:07:33	0	5.612	15	6.5	0.888
10/5/2015	20:07:33	0	5.599	15.1	6.5	0.901
10/6/2015	0:07:33	0	5.56	15	6.5	0.94
10/6/2015	4:07:33	0	5.546	15	6.5	0.954
10/6/2015	8:07:33	0	5.529	14.9	6.5	0.971

AVERAGE LEVEL ABOVE LOGGER	**5.5491448**	***AVERAGE GW DEPTH BELOW GROUND EL***	**0.9509**
		MINIMUM	**0.041**
		MAXIMUM	**5.812**
		# of readings less than 2.1'	892

Ground Water Level Data - 2015
Replication Area I - Well #1
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area I - Well #2
Pittsfield Airport, Pittsfield, MA

Serial_number:
2046048
Project ID:
Pittsfield RW 8-26 RSA Project
Location:
Replication Area I - Well #2
LEVEL
UNIT: ft
Offset: 0.000000 ft
TEMPERATURE
UNIT: °C

Date	Time	ms	Water Lev	Water Tem	Ground Level	Ground Water Depth
4/21/2015	11:07:59	0	4.7	5.7	4.45	-0.25
4/21/2015	15:07:59	0	4.676	5.5	4.45	-0.226
4/21/2015	19:07:59	0	4.708	5.5	4.45	-0.258
4/21/2015	23:07:59	0	4.667	5.6	4.45	-0.217
4/22/2015	3:07:59	0	4.611	5.6	4.45	-0.161
4/22/2015	7:07:59	0	4.566	5.6	4.45	-0.116
4/22/2015	11:07:59	0	4.444	5.6	4.45	0.006
4/22/2015	15:07:59	0	4.389	5.7	4.45	0.061
4/22/2015	19:07:59	0	4.66	5.6	4.45	-0.21
4/22/2015	23:07:59	0	5.14	5.6	4.45	-0.69
4/23/2015	3:07:59	0	5.093	5.7	4.45	-0.643
4/23/2015	7:07:59	0	5.191	5.7	4.45	-0.741
4/23/2015	11:07:59	0	5.039	5.7	4.45	-0.589
4/23/2015	15:07:59	0	4.958	5.8	4.45	-0.508
4/23/2015	19:07:59	0	5.017	5.8	4.45	-0.567
4/23/2015	23:07:59	0	4.917	5.8	4.45	-0.467
4/24/2015	3:07:59	0	4.934	5.8	4.45	-0.484
4/24/2015	7:07:59	0	4.886	5.8	4.45	-0.436
4/24/2015	11:07:59	0	4.8	5.9	4.45	-0.35
4/24/2015	15:07:59	0	4.8	5.9	4.45	-0.35
4/24/2015	19:07:59	0	4.801	5.9	4.45	-0.351
4/24/2015	23:07:59	0	4.717	5.9	4.45	-0.267
4/25/2015	3:07:59	0	4.639	5.9	4.45	-0.189
4/25/2015	7:07:59	0	4.735	5.9	4.45	-0.285
4/25/2015	11:07:59	0	4.603	5.9	4.45	-0.153
4/25/2015	15:07:59	0	4.488	5.9	4.45	-0.038
4/25/2015	19:07:59	0	4.562	5.9	4.45	-0.112
4/25/2015	23:07:59	0	4.553	5.9	4.45	-0.103
4/26/2015	3:07:59	0	4.477	5.9	4.45	-0.027
4/26/2015	7:07:59	0	4.574	5.9	4.45	-0.124
4/26/2015	11:07:59	0	4.495	5.9	4.45	-0.045
4/26/2015	15:07:59	0	4.424	5.9	4.45	0.026
4/26/2015	19:07:59	0	4.444	5.9	4.45	0.006
4/26/2015	23:07:59	0	4.425	5.9	4.45	0.025
4/27/2015	3:07:59	0	4.385	5.9	4.45	0.065
4/27/2015	7:07:59	0	4.402	5.9	4.45	0.048
4/27/2015	11:07:59	0	4.372	5.9	4.45	0.078
4/27/2015	15:07:59	0	4.293	5.9	4.45	0.157
4/27/2015	19:07:59	0	4.372	5.9	4.45	0.078
4/27/2015	23:07:59	0	4.286	5.9	4.45	0.164
4/28/2015	3:07:59	0	4.284	5.9	4.45	0.166
4/28/2015	7:07:59	0	4.359	5.9	4.45	0.091
4/28/2015	11:07:59	0	4.209	5.9	4.45	0.241
4/28/2015	15:07:59	0	4.067	5.9	4.45	0.383
4/28/2015	19:07:59	0	4.144	6	4.45	0.306
4/28/2015	23:07:59	0	4.055	6	4.45	0.395
4/29/2015	3:07:59	0	4.104	6	4.45	0.346
4/29/2015	7:07:59	0	4.183	6	4.45	0.267
4/29/2015	11:07:59	0	4.046	6	4.45	0.404
4/29/2015	15:07:59	0	3.998	6	4.45	0.452
4/29/2015	19:07:59	0	4.034	6	4.45	0.416
4/29/2015	23:07:59	0	4.074	6.1	4.45	0.376
4/30/2015	3:07:59	0	3.94	6.1	4.45	0.51
4/30/2015	7:07:59	0	4.052	6.1	4.45	0.398
4/30/2015	11:07:59	0	3.916	6.1	4.45	0.534
4/30/2015	15:07:59	0	3.886	6.2	4.45	0.564
4/30/2015	19:07:59	0	3.915	6.2	4.45	0.535
4/30/2015	23:07:59	0	3.898	6.2	4.45	0.552
5/1/2015	3:07:59	0	3.876	6.3	4.45	0.574
5/1/2015	7:07:59	0	3.873	6.3	4.45	0.577
5/1/2015	11:07:59	0	3.774	6.3	4.45	0.676
5/1/2015	15:07:59	0	3.756	6.4	4.45	0.694
5/1/2015	19:07:59	0	3.784	6.4	4.45	0.666
5/1/2015	23:07:59	0	3.8	6.4	4.45	0.65
5/2/2015	3:07:59	0	3.778	6.5	4.45	0.672
5/2/2015	7:07:59	0	3.852	6.5	4.45	0.598
5/2/2015	11:07:59	0	3.763	6.5	4.45	0.687
5/2/2015	15:07:59	0	3.701	6.6	4.45	0.749
5/2/2015	19:07:59	0	3.772	6.6	4.45	0.678
5/2/2015	23:07:59	0	3.793	6.6	4.45	0.657
5/3/2015	3:07:59	0	3.715	6.6	4.45	0.735
5/3/2015	7:07:59	0	3.778	6.7	4.45	0.672
5/3/2015	11:07:59	0	3.634	6.7	4.45	0.816
5/3/2015	15:07:59	0	3.545	6.7	4.45	0.905

Ground Water Level Data - 2015
Replication Area I - Well #2
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area I - Well #2
Pittsfield Airport, Pittsfield, MA

5/3/2015	19:07:59	0	3.572	6.8	4.45	0.878
5/3/2015	23:07:59	0	3.596	6.8	4.45	0.854
5/4/2015	3:07:59	0	3.532	6.8	4.45	0.918
5/4/2015	7:07:59	0	3.548	6.9	4.45	0.902
5/4/2015	11:07:59	0	3.383	6.9	4.45	1.067
5/4/2015	15:07:59	0	3.297	6.9	4.45	1.153
5/4/2015	19:07:59	0	3.323	7	4.45	1.127
5/4/2015	23:07:59	0	3.417	7	4.45	1.033
5/5/2015	3:07:59	0	3.336	7.1	4.45	1.114
5/5/2015	7:07:59	0	3.361	7.1	4.45	1.089
5/5/2015	11:07:59	0	3.249	7.1	4.45	1.201
5/5/2015	15:07:59	0	3.115	7.2	4.45	1.335
5/5/2015	19:07:59	0	3.156	7.2	4.45	1.294
5/5/2015	23:07:59	0	3.172	7.3	4.45	1.278
5/6/2015	3:07:59	0	3.105	7.3	4.45	1.345
5/6/2015	7:07:59	0	3.134	7.4	4.45	1.316
5/6/2015	11:07:59	0	2.97	7.4	4.45	1.48
5/6/2015	15:07:59	0	2.797	7.5	4.45	1.653
5/6/2015	19:07:59	0	2.847	7.5	4.45	1.603
5/6/2015	23:07:59	0	2.931	7.5	4.45	1.519
5/7/2015	3:07:59	0	2.845	7.6	4.45	1.605
5/7/2015	7:07:59	0	2.891	7.6	4.45	1.559
5/7/2015	11:07:59	0	2.728	7.7	4.45	1.722
5/7/2015	15:07:59	0	2.602	7.7	4.45	1.848
5/7/2015	19:07:59	0	2.63	7.8	4.45	1.82
5/7/2015	23:07:59	0	2.714	7.8	4.45	1.736
5/8/2015	3:07:59	0	2.641	7.9	4.45	1.809
5/8/2015	7:07:59	0	2.68	7.9	4.45	1.77
5/8/2015	11:07:59	0	2.498	7.9	4.45	1.952
5/8/2015	15:07:59	0	2.385	8	4.45	2.065
5/8/2015	19:07:59	0	2.465	8.1	4.45	1.985
5/8/2015	23:07:59	0	2.529	8.1	4.45	1.921
5/9/2015	3:07:59	0	2.38	8.1	4.45	2.07
5/9/2015	7:07:59	0	2.392	8.2	4.45	2.058
5/9/2015	11:07:59	0	2.216	8.2	4.45	2.234
5/9/2015	15:07:59	0	2.123	8.3	4.45	2.327
5/9/2015	19:07:59	0	2.155	8.3	4.45	2.295
5/9/2015	23:07:59	0	2.163	8.3	4.45	2.287
5/10/2015	3:07:59	0	2.077	8.4	4.45	2.373
5/10/2015	7:07:59	0	2.124	8.4	4.45	2.326
5/10/2015	11:07:59	0	1.99	8.5	4.45	2.46
5/10/2015	15:07:59	0	1.912	8.6	4.45	2.538
5/10/2015	19:07:59	0	1.989	8.6	4.45	2.461
5/10/2015	23:07:59	0	2.027	8.7	4.45	2.423
5/11/2015	3:07:59	0	1.858	8.7	4.45	2.592
5/11/2015	7:07:59	0	1.903	8.7	4.45	2.547
5/11/2015	11:07:59	0	1.783	8.8	4.45	2.667
5/11/2015	15:07:59	0	1.667	8.9	4.45	2.783
5/11/2015	19:07:59	0	1.701	9	4.45	2.749
5/11/2015	23:07:59	0	1.687	9	4.45	2.763
5/12/2015	3:07:59	0	1.575	9	4.45	2.875
5/12/2015	7:07:59	0	1.575	9.1	4.45	2.875
5/12/2015	11:07:59	0	1.559	9.2	4.45	2.891
5/12/2015	15:07:59	0	1.459	9.2	4.45	2.991
5/12/2015	19:07:59	0	1.638	9.3	4.45	2.812
5/12/2015	23:07:59	0	1.607	9.3	4.45	2.843
5/13/2015	3:07:59	0	1.442	9.4	4.45	3.008
5/13/2015	7:07:59	0	1.561	9.4	4.45	2.889
5/13/2015	11:07:59	0	1.529	9.5	4.45	2.921
5/13/2015	15:07:59	0	1.391	9.6	4.45	3.059
5/13/2015	19:07:59	0	1.336	9.6	4.45	3.114
5/13/2015	23:07:59	0	1.371	9.7	4.45	3.079
5/14/2015	3:07:59	0	1.255	9.7	4.45	3.195
5/14/2015	7:07:59	0	1.246	9.7	4.45	3.204
5/14/2015	11:07:59	0	1.046	9.8	4.45	3.404
5/14/2015	15:07:59	0	0.925	9.8	4.45	3.525
5/14/2015	19:07:59	0	0.92	9.9	4.45	3.53
5/14/2015	23:07:59	0	1.013	9.9	4.45	3.437
5/15/2015	3:07:59	0	0.944	9.9	4.45	3.506
5/15/2015	7:07:59	0	1.005	9.9	4.45	3.445
5/15/2015	11:07:59	0	0.828	9.9	4.45	3.622
5/15/2015	15:07:59	0	0.67	9.9	4.45	3.78
5/15/2015	19:07:59	0	0.726	10	4.45	3.724
5/15/2015	23:07:59	0	0.776	10	4.45	3.674
5/16/2015	3:07:59	0	0.697	10	4.45	3.753
5/16/2015	7:07:59	0	0.705	10	4.45	3.745
5/16/2015	11:07:59	0	0.641	10	4.45	3.809
5/16/2015	15:07:59	0	0.522	10	4.45	3.928
5/16/2015	19:07:59	0	0.621	10	4.45	3.829
5/16/2015	23:07:59	0	0.675	10	4.45	3.775
5/17/2015	3:07:59	0	0.535	10	4.45	3.915
5/17/2015	7:07:59	0	0.661	10	4.45	3.789
5/17/2015	11:07:59	0	0.492	10.1	4.45	3.958
5/17/2015	15:07:59	0	0.384	10.1	4.45	4.066
5/17/2015	19:07:59	0	0.409	10.1	4.45	4.041
5/17/2015	23:07:59	0	0.458	10.1	4.45	3.992
5/18/2015	3:07:59	0	0.411	10.1	4.45	4.039

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5/18/2015	7:07:59	0	0.474	10.1	4.45	3.976
5/18/2015	11:07:59	0	0.315	10.1	4.45	4.135
5/18/2015	15:07:59	0	0.139	10.2	4.45	4.311
5/18/2015	19:07:59	0	0.193	10.2	4.45	4.257
5/18/2015	23:07:59	0	0.139	10.2	4.45	4.311
5/19/2015	3:07:59	0	0.086	10.3	4.45	4.364
5/19/2015	7:07:59	0	0.102	10.3	4.45	4.348
5/19/2015	11:07:59	0	0.085	10.3	4.45	4.365
5/19/2015	15:07:59	0	-0.058	10.4	4.45	4.508
5/19/2015	19:07:59	0	-0.003	10.4	4.45	4.453
5/19/2015	23:07:59	0	0.31	10.4	4.45	4.14
5/20/2015	3:07:59	0	0.025	10.4	4.45	4.425
5/20/2015	7:07:59	0	0.082	10.5	4.45	4.368
5/20/2015	11:07:59	0	0.15	10.5	4.45	4.3
5/20/2015	15:07:59	0	-0.002	10.5	4.45	4.452
5/20/2015	19:07:59	0	0.081	10.6	4.45	4.369
5/20/2015	23:07:59	0	0.061	10.6	4.45	4.389
5/21/2015	3:07:59	0	-0.043	10.6	4.45	4.493
5/21/2015	7:07:59	0	0.046	10.6	4.45	4.404
5/21/2015	11:07:59	0	-0.125	10.7	4.45	4.575
5/21/2015	15:07:59	0	-0.194	10.7	4.45	4.644
5/21/2015	19:07:59	0	-0.123	10.7	4.45	4.573
5/21/2015	23:07:59	0	-0.104	10.7	4.45	4.554
5/22/2015	3:07:59	0	-0.074	10.7	4.45	4.524
5/22/2015	7:07:59	0	-0.022	10.7	4.45	4.472
5/22/2015	11:07:59	0	-0.068	10.8	4.45	4.518
5/22/2015	15:07:59	0	0.033	10.8	4.45	4.417
5/22/2015	19:07:59	0	0.049	10.8	4.45	4.401
5/22/2015	23:07:59	0	0.069	10.8	4.45	4.381
5/23/2015	3:07:59	0	0.08	10.8	4.45	4.37
5/23/2015	7:07:59	0	0.169	10.8	4.45	4.281
5/23/2015	11:07:59	0	0.014	10.8	4.45	4.436
5/23/2015	15:07:59	0	-0.144	10.8	4.45	4.594
5/23/2015	19:07:59	0	-0.152	10.8	4.45	4.602
5/23/2015	23:07:59	0	-0.087	10.8	4.45	4.537
5/24/2015	3:07:59	0	-0.062	10.8	4.45	4.512
5/24/2015	7:07:59	0	0.013	10.8	4.45	4.437
5/24/2015	11:07:59	0	-0.128	10.8	4.45	4.578
5/24/2015	15:07:59	0	-0.173	10.8	4.45	4.623
5/24/2015	19:07:59	0	-0.123	10.8	4.45	4.573
5/24/2015	23:07:59	0	-0.023	10.8	4.45	4.473
5/25/2015	3:07:59	0	-0.078	10.8	4.45	4.528
5/25/2015	7:07:59	0	-0.001	10.8	4.45	4.451
5/25/2015	11:07:59	0	-0.112	10.8	4.45	4.562
5/25/2015	15:07:59	0	-0.257	10.8	4.45	4.707
5/25/2015	19:07:59	0	-0.141	10.8	4.45	4.591
5/25/2015	23:07:59	0	-0.049	10.8	4.45	4.499
5/26/2015	3:07:59	0	-0.094	10.8	4.45	4.544
5/26/2015	7:07:59	0	-0.013	10.8	4.45	4.463
5/26/2015	11:07:59	0	-0.069	10.8	4.45	4.519
5/26/2015	15:07:59	0	-0.149	10.8	4.45	4.599
5/26/2015	19:07:59	0	-0.1	10.9	4.45	4.55
5/26/2015	23:07:59	0	-0.043	10.9	4.45	4.493
5/27/2015	3:07:59	0	-0.12	10.9	4.45	4.57
5/27/2015	7:07:59	0	-0.053	10.9	4.45	4.503
5/27/2015	11:07:59	0	-0.111	10.9	4.45	4.561
5/27/2015	15:07:59	0	-0.185	11	4.45	4.635
5/27/2015	19:07:59	0	0.008	11	4.45	4.442
5/27/2015	23:07:59	0	-0.107	11	4.45	4.557
5/28/2015	3:07:59	0	-0.096	11	4.45	4.546
5/28/2015	7:07:59	0	-0.009	11	4.45	4.459
5/28/2015	11:07:59	0	-0.113	11.1	4.45	4.563
5/28/2015	15:07:59	0	-0.107	11.1	4.45	4.557
5/28/2015	19:07:59	0	0.081	11.2	4.45	4.369
5/28/2015	23:07:59	0	0.017	11.2	4.45	4.433
5/29/2015	3:07:59	0	-0.05	11.2	4.45	4.5
5/29/2015	7:07:59	0	0.031	11.2	4.45	4.419
5/29/2015	11:07:59	0	-0.144	11.3	4.45	4.594
5/29/2015	15:07:59	0	-0.155	11.3	4.45	4.605
5/29/2015	19:07:59	0	-0.169	11.4	4.45	4.619
5/29/2015	23:07:59	0	-0.068	11.4	4.45	4.518
5/30/2015	3:07:59	0	-0.135	11.4	4.45	4.585
5/30/2015	7:07:59	0	-0.051	11.5	4.45	4.501
5/30/2015	11:07:59	0	-0.163	11.5	4.45	4.613
5/30/2015	15:07:59	0	-0.226	11.6	4.45	4.676
5/30/2015	19:07:59	0	-0.168	11.6	4.45	4.618
5/30/2015	23:07:59	0	-0.061	11.6	4.45	4.511
5/31/2015	3:07:59	0	-0.102	11.6	4.45	4.552
5/31/2015	7:07:59	0	-0.043	11.7	4.45	4.493
5/31/2015	11:07:59	0	-0.012	11.7	4.45	4.462
5/31/2015	15:07:59	0	-0.008	11.7	4.45	4.458
5/31/2015	19:07:59	0	-0.018	11.8	4.45	4.468
5/31/2015	23:07:59	0	-0.045	11.8	4.45	4.495
6/1/2015	3:07:59	0	-0.122	11.8	4.45	4.572
6/1/2015	7:07:59	0	-0.037	11.9	4.45	4.487
6/1/2015	11:07:59	0	-0.052	11.9	4.45	4.502
6/1/2015	15:07:59	0	-0.076	12.1	4.45	4.526

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6/1/2015	19:07:59	0	0.253	12.2	4.45	4.197
6/1/2015	23:07:59	0	0.588	12.2	4.45	3.862
6/2/2015	3:07:59	0	1.697	12.2	4.45	2.753
6/2/2015	7:07:59	0	2.532	12.3	4.45	1.918
6/2/2015	11:07:59	0	2.939	12.3	4.45	1.511
6/2/2015	15:07:59	0	3.081	12.3	4.45	1.369
6/2/2015	19:07:59	0	3.258	12.3	4.45	1.192
6/2/2015	23:07:59	0	3.316	12.3	4.45	1.134
6/3/2015	3:07:59	0	3.323	12.3	4.45	1.127
6/3/2015	7:07:59	0	3.382	12.3	4.45	1.068
6/3/2015	11:07:59	0	3.262	12.3	4.45	1.188
6/3/2015	15:07:59	0	3.197	12.3	4.45	1.253
6/3/2015	19:07:59	0	3.203	12.3	4.45	1.247
6/3/2015	23:07:59	0	3.217	12.3	4.45	1.233
6/4/2015	3:07:59	0	3.157	12.2	4.45	1.293
6/4/2015	7:07:59	0	3.151	12.2	4.45	1.299
6/4/2015	11:07:59	0	3.066	12.2	4.45	1.384
6/4/2015	15:07:59	0	2.954	12.3	4.45	1.496
6/4/2015	19:07:59	0	2.923	12.2	4.45	1.527
6/4/2015	23:07:59	0	2.951	12.2	4.45	1.499
6/5/2015	3:07:59	0	2.899	12.2	4.45	1.551
6/5/2015	7:07:59	0	2.908	12.2	4.45	1.542
6/5/2015	11:07:59	0	2.813	12.2	4.45	1.637
6/5/2015	15:07:59	0	2.696	12.2	4.45	1.754
6/5/2015	19:07:59	0	2.682	12.2	4.45	1.768
6/5/2015	23:07:59	0	2.689	12.2	4.45	1.761
6/6/2015	3:07:59	0	2.628	12.1	4.45	1.822
6/6/2015	7:07:59	0	2.807	12.1	4.45	1.643
6/6/2015	11:07:59	0	2.942	12.3	4.45	1.508
6/6/2015	15:07:59	0	2.82	12.3	4.45	1.63
6/6/2015	19:07:59	0	2.77	12.3	4.45	1.68
6/6/2015	23:07:59	0	2.748	12.3	4.45	1.702
6/7/2015	3:07:59	0	2.694	12.3	4.45	1.756
6/7/2015	7:07:59	0	2.695	12.3	4.45	1.755
6/7/2015	11:07:59	0	2.464	12.3	4.45	1.986
6/7/2015	15:07:59	0	2.37	12.3	4.45	2.08
6/7/2015	19:07:59	0	2.313	12.3	4.45	2.137
6/7/2015	23:07:59	0	2.367	12.3	4.45	2.083
6/8/2015	3:07:59	0	2.197	12.3	4.45	2.253
6/8/2015	7:07:59	0	2.226	12.3	4.45	2.224
6/8/2015	11:07:59	0	2.159	12.3	4.45	2.291
6/8/2015	15:07:59	0	2.123	12.3	4.45	2.327
6/8/2015	19:07:59	0	2.192	12.3	4.45	2.258
6/8/2015	23:07:59	0	2.573	12.4	4.45	1.877
6/9/2015	3:07:59	0	3.227	12.6	4.45	1.223
6/9/2015	7:07:59	0	3.528	12.7	4.45	0.922
6/9/2015	11:07:59	0	3.677	12.8	4.45	0.773
6/9/2015	15:07:59	0	3.705	12.9	4.45	0.745
6/9/2015	19:07:59	0	3.965	12.9	4.45	0.485
6/9/2015	23:07:59	0	4.209	12.9	4.45	0.241
6/10/2015	3:07:59	0	4.162	12.9	4.45	0.288
6/10/2015	7:07:59	0	4.207	12.9	4.45	0.243
6/10/2015	11:07:59	0	4.04	12.9	4.45	0.41
6/10/2015	15:07:59	0	3.929	12.9	4.45	0.521
6/10/2015	19:07:59	0	3.836	12.9	4.45	0.614
6/10/2015	23:07:59	0	3.896	12.9	4.45	0.554
6/11/2015	3:07:59	0	3.842	13	4.45	0.608
6/11/2015	7:07:59	0	3.92	13	4.45	0.53
6/11/2015	11:07:59	0	3.864	13.1	4.45	0.586
6/11/2015	15:07:59	0	3.719	13.1	4.45	0.731
6/11/2015	19:07:59	0	3.653	13.1	4.45	0.797
6/11/2015	23:07:59	0	3.637	13.1	4.45	0.813
6/12/2015	3:07:59	0	3.562	13.2	4.45	0.888
6/12/2015	7:07:59	0	3.665	13.3	4.45	0.785
6/12/2015	11:07:59	0	3.445	13.4	4.45	1.005
6/12/2015	15:07:59	0	3.298	13.4	4.45	1.152
6/12/2015	19:07:59	0	3.234	13.3	4.45	1.216
6/12/2015	23:07:59	0	3.755	13.4	4.45	0.695
6/13/2015	3:07:59	0	3.891	14.1	4.45	0.559
6/13/2015	7:07:59	0	4.297	14.3	4.45	0.153
6/13/2015	11:07:59	0	4.124	14.3	4.45	0.326
6/13/2015	15:07:59	0	3.941	14.3	4.45	0.509
6/13/2015	19:07:59	0	3.774	14.2	4.45	0.676
6/13/2015	23:07:59	0	3.838	14.1	4.45	0.612
6/14/2015	3:07:59	0	3.769	14.2	4.45	0.681
6/14/2015	7:07:59	0	3.813	14.2	4.45	0.637
6/14/2015	11:07:59	0	3.676	14.3	4.45	0.774
6/14/2015	15:07:59	0	3.508	14.3	4.45	0.942
6/14/2015	19:07:59	0	3.458	14.2	4.45	0.992
6/14/2015	23:07:59	0	3.493	14.2	4.45	0.957
6/15/2015	3:07:59	0	3.491	14.3	4.45	0.959
6/15/2015	7:07:59	0	4.232	14.8	4.45	0.218
6/15/2015	11:07:59	0	4.5	14.3	4.45	-0.05
6/15/2015	15:07:59	0	4.423	14	4.45	0.027
6/15/2015	19:07:59	0	4.441	13.9	4.45	0.009
6/15/2015	23:07:59	0	4.403	13.9	4.45	0.047
6/16/2015	3:07:59	0	4.303	13.9	4.45	0.147

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6/16/2015	7:07:59	0	4.315	13.9	4.45	0.135
6/16/2015	11:07:59	0	4.227	13.9	4.45	0.223
6/16/2015	15:07:59	0	4.23	13.9	4.45	0.22
6/16/2015	19:07:59	0	4.448	13.9	4.45	0.002
6/16/2015	23:07:59	0	4.435	14	4.45	0.015
6/17/2015	3:07:59	0	4.385	14	4.45	0.065
6/17/2015	7:07:59	0	4.386	14.1	4.45	0.064
6/17/2015	11:07:59	0	4.25	14.1	4.45	0.2
6/17/2015	15:07:59	0	4.081	14.1	4.45	0.369
6/17/2015	19:07:59	0	4.052	14.1	4.45	0.398
6/17/2015	23:07:59	0	4.142	14.1	4.45	0.308
6/18/2015	3:07:59	0	4.064	14.1	4.45	0.386
6/18/2015	7:07:59	0	4.144	14.1	4.45	0.306
6/18/2015	11:07:59	0	4.033	14.2	4.45	0.417
6/18/2015	15:07:59	0	3.921	14.2	4.45	0.529
6/18/2015	19:07:59	0	3.968	14.2	4.45	0.482
6/18/2015	23:07:59	0	4.025	14.2	4.45	0.425
6/19/2015	3:07:59	0	4.002	14.3	4.45	0.448
6/19/2015	7:07:59	0	4.093	14.3	4.45	0.357
6/19/2015	11:07:59	0	4.1	14.4	4.45	0.35
6/19/2015	15:07:59	0	3.954	14.4	4.45	0.496
6/19/2015	19:07:59	0	3.896	14.4	4.45	0.554
6/19/2015	23:07:59	0	3.94	14.4	4.45	0.51
6/20/2015	3:07:59	0	3.889	14.4	4.45	0.561
6/20/2015	7:07:59	0	3.902	14.5	4.45	0.548
6/20/2015	11:07:59	0	3.733	14.6	4.45	0.717
6/20/2015	15:07:59	0	3.667	14.6	4.45	0.783
6/20/2015	19:07:59	0	3.643	14.6	4.45	0.807
6/20/2015	23:07:59	0	3.695	14.6	4.45	0.755
6/21/2015	3:07:59	0	3.976	14.9	4.45	0.474
6/21/2015	7:07:59	0	4.314	14.7	4.45	0.136
6/21/2015	11:07:59	0	4.552	14.2	4.45	-0.102
6/21/2015	15:07:59	0	4.57	13.9	4.45	-0.12
6/21/2015	19:07:59	0	4.59	13.9	4.45	-0.14
6/21/2015	23:07:59	0	4.617	14	4.45	-0.167
6/22/2015	3:07:59	0	4.511	14	4.45	-0.061
6/22/2015	7:07:59	0	4.594	14	4.45	-0.144
6/22/2015	11:07:59	0	4.448	14	4.45	0.002
6/22/2015	15:07:59	0	4.381	14.1	4.45	0.069
6/22/2015	19:07:59	0	4.219	14	4.45	0.231
6/22/2015	23:07:59	0	4.282	14.1	4.45	0.168
6/23/2015	3:07:59	0	4.235	14.1	4.45	0.215
6/23/2015	7:07:59	0	4.169	14.1	4.45	0.281
6/23/2015	11:07:59	0	4.236	14.1	4.45	0.214
6/23/2015	15:07:59	0	4.321	14.2	4.45	0.129
6/23/2015	19:07:59	0	4.336	14.2	4.45	0.114
6/23/2015	23:07:59	0	4.409	14.2	4.45	0.041
6/24/2015	3:07:59	0	4.294	14.3	4.45	0.156
6/24/2015	7:07:59	0	4.35	14.3	4.45	0.1
6/24/2015	11:07:59	0	4.215	14.4	4.45	0.235
6/24/2015	15:07:59	0	4.094	14.4	4.45	0.356
6/24/2015	19:07:59	0	4.063	14.4	4.45	0.387
6/24/2015	23:07:59	0	4.079	14.4	4.45	0.371
6/25/2015	3:07:59	0	4.025	14.5	4.45	0.425
6/25/2015	7:07:59	0	4.092	14.5	4.45	0.358
6/25/2015	11:07:59	0	3.976	14.6	4.45	0.474
6/25/2015	15:07:59	0	3.815	14.6	4.45	0.635
6/25/2015	19:07:59	0	3.832	14.6	4.45	0.618
6/25/2015	23:07:59	0	3.867	14.7	4.45	0.583
6/26/2015	3:07:59	0	3.849	14.7	4.45	0.601
6/26/2015	7:07:59	0	3.913	14.8	4.45	0.537
6/26/2015	11:07:59	0	3.852	14.9	4.45	0.598
6/26/2015	15:07:59	0	3.735	14.9	4.45	0.715
6/26/2015	19:07:59	0	3.745	15	4.45	0.705
6/26/2015	23:07:59	0	3.754	15	4.45	0.696
6/27/2015	3:07:59	0	3.673	15.1	4.45	0.777
6/27/2015	7:07:59	0	3.721	15.2	4.45	0.729
6/27/2015	11:07:59	0	3.54	15.3	4.45	0.91
6/27/2015	15:07:59	0	3.513	15.3	4.45	0.937
6/27/2015	19:07:59	0	3.443	15.3	4.45	1.007
6/27/2015	23:07:59	0	3.665	15.5	4.45	0.785
6/28/2015	3:07:59	0	3.938	15.7	4.45	0.512
6/28/2015	7:07:59	0	4.227	15.5	4.45	0.223
6/28/2015	11:07:59	0	4.29	15.3	4.45	0.16
6/28/2015	15:07:59	0	4.375	15.2	4.45	0.075
6/28/2015	19:07:59	0	4.431	15.1	4.45	0.019
6/28/2015	23:07:59	0	4.344	15.1	4.45	0.106
6/29/2015	3:07:59	0	4.36	15	4.45	0.09
6/29/2015	7:07:59	0	4.455	15	4.45	-0.005
6/29/2015	11:07:59	0	4.407	15	4.45	0.043
6/29/2015	15:07:59	0	4.317	15	4.45	0.133
6/29/2015	19:07:59	0	4.359	15	4.45	0.091
6/29/2015	23:07:59	0	4.397	15	4.45	0.053
6/30/2015	3:07:59	0	4.324	14.9	4.45	0.126
6/30/2015	7:07:59	0	4.342	14.9	4.45	0.108
6/30/2015	11:07:59	0	4.232	14.9	4.45	0.218
6/30/2015	15:07:59	0	4.187	14.9	4.45	0.263

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6/30/2015	19:07:59	0	4.264	14.9	4.45	0.186
6/30/2015	23:07:59	0	4.287	14.9	4.45	0.163
7/1/2015	3:07:59	0	4.213	14.9	4.45	0.237
7/1/2015	7:07:59	0	4.479	14.7	4.45	-0.029
7/1/2015	11:07:59	0	4.629	14.4	4.45	-0.179
7/1/2015	15:07:59	0	4.523	14.3	4.45	-0.073
7/1/2015	19:07:59	0	4.737	14.3	4.45	-0.287
7/1/2015	23:07:59	0	4.757	14.3	4.45	-0.307
7/2/2015	3:07:59	0	4.625	14.3	4.45	-0.175
7/2/2015	7:07:59	0	4.673	14.3	4.45	-0.223
7/2/2015	11:07:59	0	4.619	14.3	4.45	-0.169
7/2/2015	15:07:59	0	4.505	14.3	4.45	-0.055
7/2/2015	19:07:59	0	4.452	14.3	4.45	-0.002
7/2/2015	23:07:59	0	4.506	14.3	4.45	-0.056
7/3/2015	3:07:59	0	4.514	14.3	4.45	-0.064
7/3/2015	7:07:59	0	4.576	14.4	4.45	-0.126
7/3/2015	11:07:59	0	4.432	14.4	4.45	0.018
7/3/2015	15:07:59	0	4.323	14.4	4.45	0.127
7/3/2015	19:07:59	0	4.271	14.4	4.45	0.179
7/3/2015	23:07:59	0	4.358	14.4	4.45	0.092
7/4/2015	3:07:59	0	4.294	14.4	4.45	0.156
7/4/2015	7:07:59	0	4.326	14.5	4.45	0.124
7/4/2015	11:07:59	0	4.354	14.5	4.45	0.096
7/4/2015	15:07:59	0	4.366	14.5	4.45	0.084
7/4/2015	19:07:59	0	4.371	14.5	4.45	0.079
7/4/2015	23:07:59	0	4.492	14.5	4.45	-0.042
7/5/2015	3:07:59	0	4.423	14.5	4.45	0.027
7/5/2015	7:07:59	0	4.451	14.6	4.45	-0.001
7/5/2015	11:07:59	0	4.361	14.6	4.45	0.089
7/5/2015	15:07:59	0	4.242	14.6	4.45	0.208
7/5/2015	19:07:59	0	4.158	14.6	4.45	0.292
7/5/2015	23:07:59	0	4.24	14.6	4.45	0.21
7/6/2015	3:07:59	0	4.159	14.6	4.45	0.291
7/6/2015	7:07:59	0	4.189	14.6	4.45	0.261
7/6/2015	11:07:59	0	4.12	14.7	4.45	0.33
7/6/2015	15:07:59	0	3.989	14.7	4.45	0.461
7/6/2015	19:07:59	0	3.933	14.7	4.45	0.517
7/6/2015	23:07:59	0	3.973	14.7	4.45	0.477
7/7/2015	3:07:59	0	3.955	14.7	4.45	0.495
7/7/2015	7:07:59	0	3.963	14.7	4.45	0.487
7/7/2015	11:07:59	0	3.887	14.8	4.45	0.563
7/7/2015	15:07:59	0	3.899	14.8	4.45	0.551
7/7/2015	19:07:59	0	4.112	14.9	4.45	0.338
7/7/2015	23:07:59	0	4.193	15	4.45	0.257
7/8/2015	3:07:59	0	4.102	15.1	4.45	0.348
7/8/2015	7:07:59	0	4.2	15.1	4.45	0.25
7/8/2015	11:07:59	0	4.198	15.2	4.45	0.252
7/8/2015	15:07:59	0	4.063	15.3	4.45	0.387
7/8/2015	19:07:59	0	4.005	15.3	4.45	0.445
7/8/2015	23:07:59	0	3.957	15.3	4.45	0.493
7/9/2015	3:07:59	0	3.94	15.4	4.45	0.51
7/9/2015	7:07:59	0	3.905	15.5	4.45	0.545
7/9/2015	11:07:59	0	3.804	15.5	4.45	0.646
7/9/2015	15:07:59	0	3.684	15.6	4.45	0.766
7/9/2015	19:07:59	0	3.691	15.6	4.45	0.759
7/9/2015	23:07:59	0	3.941	15.7	4.45	0.509
7/10/2015	3:07:59	0	4.434	15.7	4.45	0.016
7/10/2015	7:07:59	0	4.627	15.4	4.45	-0.177
7/10/2015	11:07:59	0	4.469	15.3	4.45	-0.019
7/10/2015	15:07:59	0	4.359	15.3	4.45	0.091
7/10/2015	19:07:59	0	4.356	15.3	4.45	0.094
7/10/2015	23:07:59	0	4.394	15.3	4.45	0.056
7/11/2015	3:07:59	0	4.354	15.3	4.45	0.096
7/11/2015	7:07:59	0	4.42	15.3	4.45	0.03
7/11/2015	11:07:59	0	4.274	15.3	4.45	0.176
7/11/2015	15:07:59	0	4.152	15.3	4.45	0.298
7/11/2015	19:07:59	0	4.096	15.3	4.45	0.354
7/11/2015	23:07:59	0	4.178	15.3	4.45	0.272
7/12/2015	3:07:59	0	4.102	15.3	4.45	0.348
7/12/2015	7:07:59	0	4.159	15.4	4.45	0.291
7/12/2015	11:07:59	0	4.078	15.4	4.45	0.372
7/12/2015	15:07:59	0	3.931	15.4	4.45	0.519
7/12/2015	19:07:59	0	3.896	15.4	4.45	0.554
7/12/2015	23:07:59	0	3.955	15.4	4.45	0.495
7/13/2015	3:07:59	0	3.886	15.5	4.45	0.564
7/13/2015	7:07:59	0	3.951	15.5	4.45	0.499
7/13/2015	11:07:59	0	3.894	15.6	4.45	0.556
7/13/2015	15:07:59	0	3.732	15.6	4.45	0.718
7/13/2015	19:07:59	0	3.805	15.7	4.45	0.645
7/13/2015	23:07:59	0	3.856	15.7	4.45	0.594
7/14/2015	3:07:59	0	3.788	15.8	4.45	0.662
7/14/2015	7:07:59	0	3.811	15.9	4.45	0.639
7/14/2015	11:07:59	0	3.743	15.9	4.45	0.707
7/14/2015	15:07:59	0	3.669	16	4.45	0.781
7/14/2015	19:07:59	0	3.607	16	4.45	0.843
7/14/2015	23:07:59	0	3.669	16	4.45	0.781
7/15/2015	3:07:59	0	3.574	16.1	4.45	0.876

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7/15/2015	7:07:59	0	3.662	16.2	4.45	0.788
7/15/2015	11:07:59	0	3.595	16.3	4.45	0.855
7/15/2015	15:07:59	0	3.48	16.3	4.45	0.97
7/15/2015	19:07:59	0	3.39	16.2	4.45	1.06
7/15/2015	23:07:59	0	3.296	16.2	4.45	1.154
7/16/2015	3:07:59	0	3.155	16.2	4.45	1.295
7/16/2015	7:07:59	0	3.209	16.1	4.45	1.241
7/16/2015	11:07:59	0	2.971	16.1	4.45	1.479
7/16/2015	15:07:59	0	2.884	16.1	4.45	1.566
7/16/2015	19:07:59	0	2.842	16.1	4.45	1.608
7/16/2015	23:07:59	0	2.818	16	4.45	1.632
7/17/2015	3:07:59	0	2.731	16	4.45	1.719
7/17/2015	7:07:59	0	2.717	16	4.45	1.733
7/17/2015	11:07:59	0	2.552	16	4.45	1.898
7/17/2015	15:07:59	0	2.452	16	4.45	1.998
7/17/2015	19:07:59	0	2.438	16	4.45	2.012
7/17/2015	23:07:59	0	2.429	16	4.45	2.021
7/18/2015	3:07:59	0	2.309	16	4.45	2.141
7/18/2015	7:07:59	0	2.383	16	4.45	2.067
7/18/2015	11:07:59	0	2.391	16	4.45	2.059
7/18/2015	15:07:59	0	2.368	16	4.45	2.082
7/18/2015	19:07:59	0	2.434	16	4.45	2.016
7/18/2015	23:07:59	0	2.653	16.1	4.45	1.797
7/19/2015	3:07:59	0	3.21	16.2	4.45	1.24
7/19/2015	7:07:59	0	3.578	16.3	4.45	0.872
7/19/2015	11:07:59	0	3.638	16.4	4.45	0.812
7/19/2015	15:07:59	0	3.618	16.4	4.45	0.832
7/19/2015	19:07:59	0	3.764	16.4	4.45	0.686
7/19/2015	23:07:59	0	3.946	16.5	4.45	0.504
7/20/2015	3:07:59	0	4.045	16.5	4.45	0.405
7/20/2015	7:07:59	0	4.132	16.6	4.45	0.318
7/20/2015	11:07:59	0	4.038	16.6	4.45	0.412
7/20/2015	15:07:59	0	3.982	16.6	4.45	0.468
7/20/2015	19:07:59	0	3.817	16.6	4.45	0.633
7/20/2015	23:07:59	0	3.798	16.6	4.45	0.652
7/21/2015	3:07:59	0	3.745	16.6	4.45	0.705
7/21/2015	7:07:59	0	3.737	16.6	4.45	0.713
7/21/2015	11:07:59	0	3.665	16.6	4.45	0.785
7/21/2015	15:07:59	0	3.518	16.6	4.45	0.932
7/21/2015	19:07:59	0	3.479	16.6	4.45	0.971
7/21/2015	23:07:59	0	3.456	16.6	4.45	0.994
7/22/2015	3:07:59	0	3.337	16.5	4.45	1.113
7/22/2015	7:07:59	0	3.375	16.5	4.45	1.075
7/22/2015	11:07:59	0	3.21	16.6	4.45	1.24
7/22/2015	15:07:59	0	3.096	16.5	4.45	1.354
7/22/2015	19:07:59	0	3.078	16.5	4.45	1.372
7/22/2015	23:07:59	0	3.027	16.5	4.45	1.423
7/23/2015	3:07:59	0	2.83	16.5	4.45	1.62
7/23/2015	7:07:59	0	2.847	16.5	4.45	1.603
7/23/2015	11:07:59	0	2.71	16.5	4.45	1.74
7/23/2015	15:07:59	0	2.577	16.5	4.45	1.873
7/23/2015	19:07:59	0	2.565	16.5	4.45	1.885
7/23/2015	23:07:59	0	2.543	16.5	4.45	1.907
7/24/2015	3:07:59	0	2.41	16.5	4.45	2.04
7/24/2015	7:07:59	0	2.372	16.4	4.45	2.078
7/24/2015	11:07:59	0	2.24	16.5	4.45	2.21
7/24/2015	15:07:59	0	2.105	16.5	4.45	2.345
7/24/2015	19:07:59	0	2.156	16.5	4.45	2.294
7/24/2015	23:07:59	0	2.085	16.5	4.45	2.365
7/25/2015	3:07:59	0	2.02	16.4	4.45	2.43
7/25/2015	7:07:59	0	2.032	16.4	4.45	2.418
7/25/2015	11:07:59	0	1.887	16.5	4.45	2.563
7/25/2015	15:07:59	0	1.787	16.5	4.45	2.663
7/25/2015	19:07:59	0	1.731	16.5	4.45	2.719
7/25/2015	23:07:59	0	1.754	16.4	4.45	2.696
7/26/2015	3:07:59	0	1.612	16.4	4.45	2.838
7/26/2015	7:07:59	0	1.603	16.4	4.45	2.847
7/26/2015	11:07:59	0	1.517	16.4	4.45	2.933
7/26/2015	15:07:59	0	1.439	16.5	4.45	3.011
7/26/2015	19:07:59	0	1.446	16.4	4.45	3.004
7/26/2015	23:07:59	0	1.445	16.4	4.45	3.005
7/27/2015	3:07:59	0	1.388	16.4	4.45	3.062
7/27/2015	7:07:59	0	1.466	16.4	4.45	2.984
7/27/2015	11:07:59	0	1.363	16.4	4.45	3.087
7/27/2015	15:07:59	0	1.246	16.5	4.45	3.204
7/27/2015	19:07:59	0	1.257	16.5	4.45	3.193
7/27/2015	23:07:59	0	1.276	16.5	4.45	3.174
7/28/2015	3:07:59	0	1.181	16.5	4.45	3.269
7/28/2015	7:07:59	0	1.174	16.5	4.45	3.276
7/28/2015	11:07:59	0	1.024	16.5	4.45	3.426
7/28/2015	15:07:59	0	0.934	16.5	4.45	3.516
7/28/2015	19:07:59	0	0.928	16.5	4.45	3.522
7/28/2015	23:07:59	0	0.949	16.5	4.45	3.501
7/29/2015	3:07:59	0	0.825	16.5	4.45	3.625
7/29/2015	7:07:59	0	0.854	16.5	4.45	3.596
7/29/2015	11:07:59	0	0.714	16.6	4.45	3.736
7/29/2015	15:07:59	0	0.565	16.6	4.45	3.885

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7/29/2015	19:07:59	0	0.509	16.6	4.45	3.941
7/29/2015	23:07:59	0	0.571	16.6	4.45	3.879
7/30/2015	3:07:59	0	0.484	16.6	4.45	3.966
7/30/2015	7:07:59	0	0.448	16.6	4.45	4.002
7/30/2015	11:07:59	0	0.342	16.7	4.45	4.108
7/30/2015	15:07:59	0	0.25	16.7	4.45	4.2
7/30/2015	19:07:59	0	0.334	16.7	4.45	4.116
7/30/2015	23:07:59	0	0.308	16.7	4.45	4.142
7/31/2015	3:07:59	0	0.198	16.7	4.45	4.252
7/31/2015	7:07:59	0	0.232	16.7	4.45	4.218
7/31/2015	11:07:59	0	0.12	16.8	4.45	4.33
7/31/2015	15:07:59	0	-0.023	16.8	4.45	4.473
7/31/2015	19:07:59	0	-0.091	16.8	4.45	4.541
7/31/2015	23:07:59	0	0.01	16.8	4.45	4.44
8/1/2015	3:07:59	0	-0.136	16.8	4.45	4.586
8/1/2015	7:07:59	0	-0.053	16.8	4.45	4.503
8/1/2015	11:07:59	0	-0.084	16.8	4.45	4.534
8/1/2015	15:07:59	0	-0.13	16.9	4.45	4.58
8/1/2015	19:07:59	0	-0.062	16.9	4.45	4.512
8/1/2015	23:07:59	0	0.003	16.9	4.45	4.447
8/2/2015	3:07:59	0	-0.062	16.9	4.45	4.512
8/2/2015	7:07:59	0	-0.01	16.9	4.45	4.46
8/2/2015	11:07:59	0	-0.046	16.9	4.45	4.496
8/2/2015	15:07:59	0	-0.164	16.9	4.45	4.614
8/2/2015	19:07:59	0	-0.139	16.9	4.45	4.589
8/2/2015	23:07:59	0	-0.167	16.9	4.45	4.617
8/3/2015	3:07:59	0	-0.148	16.9	4.45	4.598
8/3/2015	7:07:59	0	-0.049	16.9	4.45	4.499
8/3/2015	11:07:59	0	-0.139	16.9	4.45	4.589
8/3/2015	15:07:59	0	-0.183	17	4.45	4.633
8/3/2015	19:07:59	0	-0.046	17	4.45	4.496
8/3/2015	23:07:59	0	0	16.9	4.45	4.45
8/4/2015	3:07:59	0	-0.08	16.9	4.45	4.53
8/4/2015	7:07:59	0	-0.048	16.9	4.45	4.498
8/4/2015	11:07:59	0	-0.086	16.9	4.45	4.536
8/4/2015	15:07:59	0	-0.096	17	4.45	4.546
8/4/2015	19:07:59	0	-0.015	17	4.45	4.465
8/4/2015	23:07:59	0	-0.038	16.9	4.45	4.488
8/5/2015	3:07:59	0	-0.119	16.9	4.45	4.569
8/5/2015	7:07:59	0	-0.049	16.9	4.45	4.499
8/5/2015	11:07:59	0	-0.115	17	4.45	4.565
8/5/2015	15:07:59	0	-0.15	17	4.45	4.6
8/5/2015	19:07:59	0	-0.076	17	4.45	4.526
8/5/2015	23:07:59	0	-0.004	17	4.45	4.454
8/6/2015	3:07:59	0	-0.092	17	4.45	4.542
8/6/2015	7:07:59	0	-0.057	17	4.45	4.507
8/6/2015	11:07:59	0	-0.062	17	4.45	4.512
8/6/2015	15:07:59	0	-0.165	17	4.45	4.615
8/6/2015	19:07:59	0	-0.135	17	4.45	4.585
8/6/2015	23:07:59	0	-0.039	17	4.45	4.489
8/7/2015	3:07:59	0	-0.108	17	4.45	4.558
8/7/2015	7:07:59	0	-0.014	17	4.45	4.464
8/7/2015	11:07:59	0	-0.079	17	4.45	4.529
8/7/2015	15:07:59	0	-0.158	17	4.45	4.608
8/7/2015	19:07:59	0	-0.092	17	4.45	4.542
8/7/2015	23:07:59	0	-0.054	17	4.45	4.504
8/8/2015	3:07:59	0	-0.081	16.9	4.45	4.531
8/8/2015	7:07:59	0	0.006	16.9	4.45	4.444
8/8/2015	11:07:59	0	-0.071	16.9	4.45	4.521
8/8/2015	15:07:59	0	-0.133	16.9	4.45	4.583
8/8/2015	19:07:59	0	-0.097	16.9	4.45	4.547
8/8/2015	23:07:59	0	-0.049	16.9	4.45	4.499
8/9/2015	3:07:59	0	-0.115	16.9	4.45	4.565
8/9/2015	7:07:59	0	-0.055	16.9	4.45	4.505
8/9/2015	11:07:59	0	-0.072	16.9	4.45	4.522
8/9/2015	15:07:59	0	-0.146	16.9	4.45	4.596
8/9/2015	19:07:59	0	-0.095	16.9	4.45	4.545
8/9/2015	23:07:59	0	-0.071	16.9	4.45	4.521
8/10/2015	3:07:59	0	-0.096	16.8	4.45	4.546
8/10/2015	7:07:59	0	-0.043	16.8	4.45	4.493
8/10/2015	11:07:59	0	-0.132	16.8	4.45	4.582
8/10/2015	15:07:59	0	-0.168	16.8	4.45	4.618
8/10/2015	19:07:59	0	-0.167	16.8	4.45	4.617
8/10/2015	23:07:59	0	-0.105	16.8	4.45	4.555
8/11/2015	3:07:59	0	-0.216	16.8	4.45	4.666
8/11/2015	7:07:59	0	-0.205	16.8	4.45	4.655
8/11/2015	11:07:59	0	-0.224	16.8	4.45	4.674
8/11/2015	15:07:59	0	-0.15	16.8	4.45	4.6
8/11/2015	19:07:59	0	-0.056	16.8	4.45	4.506
8/11/2015	23:07:59	0	-0.036	16.9	4.45	4.486
8/12/2015	3:07:59	0	-0.079	16.9	4.45	4.529
8/12/2015	7:07:59	0	-0.006	16.8	4.45	4.456
8/12/2015	11:07:59	0	-0.057	16.8	4.45	4.507
8/12/2015	15:07:59	0	-0.137	16.8	4.45	4.587
8/12/2015	19:07:59	0	-0.024	16.8	4.45	4.474
8/12/2015	23:07:59	0	0.006	16.8	4.45	4.444
8/13/2015	3:07:59	0	-0.067	16.8	4.45	4.517

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8/13/2015	7:07:59	0	0.011	16.8	4.45	4.439
8/13/2015	11:07:59	0	-0.01	16.8	4.45	4.46
8/13/2015	15:07:59	0	-0.144	16.8	4.45	4.594
8/13/2015	19:07:59	0	-0.098	16.8	4.45	4.548
8/13/2015	23:07:59	0	0.031	16.8	4.45	4.419
8/14/2015	3:07:59	0	-0.085	16.8	4.45	4.535
8/14/2015	7:07:59	0	-0.014	16.8	4.45	4.464
8/14/2015	11:07:59	0	-0.091	16.8	4.45	4.541
8/14/2015	15:07:59	0	-0.193	16.8	4.45	4.643
8/14/2015	19:07:59	0	-0.131	16.8	4.45	4.581
8/14/2015	23:07:59	0	-0.041	16.8	4.45	4.491
8/15/2015	3:07:59	0	-0.125	16.8	4.45	4.575
8/15/2015	7:07:59	0	-0.03	16.8	4.45	4.48
8/15/2015	11:07:59	0	-0.095	16.8	4.45	4.545
8/15/2015	15:07:59	0	-0.205	16.8	4.45	4.655
8/15/2015	19:07:59	0	-0.052	16.8	4.45	4.502
8/15/2015	23:07:59	0	-0.027	16.8	4.45	4.477
8/16/2015	3:07:59	0	-0.104	16.8	4.45	4.554
8/16/2015	7:07:59	0	-0.077	16.8	4.45	4.527
8/16/2015	11:07:59	0	-0.091	16.8	4.45	4.541
8/16/2015	15:07:59	0	-0.171	16.9	4.45	4.621
8/16/2015	19:07:59	0	-0.155	16.9	4.45	4.605
8/16/2015	23:07:59	0	-0.03	16.9	4.45	4.48
8/17/2015	3:07:59	0	-0.111	16.9	4.45	4.561
8/17/2015	7:07:59	0	-0.037	16.9	4.45	4.487
8/17/2015	11:07:59	0	-0.114	16.9	4.45	4.564
8/17/2015	15:07:59	0	-0.185	16.9	4.45	4.635
8/17/2015	19:07:59	0	-0.167	16.9	4.45	4.617
8/17/2015	23:07:59	0	-0.052	16.9	4.45	4.502
8/18/2015	3:07:59	0	-0.084	16.9	4.45	4.534
8/18/2015	7:07:59	0	-0.06	16.9	4.45	4.51
8/18/2015	11:07:59	0	-0.121	17	4.45	4.571
8/18/2015	15:07:59	0	-0.197	17	4.45	4.647
8/18/2015	19:07:59	0	-0.084	17	4.45	4.534
8/18/2015	23:07:59	0	-0.066	17	4.45	4.516
8/19/2015	3:07:59	0	-0.069	17	4.45	4.519
8/19/2015	7:07:59	0	-0.034	17	4.45	4.484
8/19/2015	11:07:59	0	-0.09	17	4.45	4.54
8/19/2015	15:07:59	0	-0.16	17.1	4.45	4.61
8/19/2015	19:07:59	0	-0.109	17.1	4.45	4.559
8/19/2015	23:07:59	0	-0.026	17.1	4.45	4.476
8/20/2015	3:07:59	0	-0.127	17.1	4.45	4.577
8/20/2015	7:07:59	0	-0.09	17.1	4.45	4.54
8/20/2015	11:07:59	0	-0.089	17.1	4.45	4.539
8/20/2015	15:07:59	0	-0.184	17.2	4.45	4.634
8/20/2015	19:07:59	0	-0.123	17.2	4.45	4.573
8/20/2015	23:07:59	0	-0.052	17.2	4.45	4.502
8/21/2015	3:07:59	0	-0.129	17.2	4.45	4.579
8/21/2015	7:07:59	0	0.035	17.2	4.45	4.415
8/21/2015	11:07:59	0	-0.096	17.2	4.45	4.546
8/21/2015	15:07:59	0	-0.132	17.2	4.45	4.582
8/21/2015	19:07:59	0	-0.077	17.3	4.45	4.527
8/21/2015	23:07:59	0	-0.028	17.3	4.45	4.478
8/22/2015	3:07:59	0	-0.077	17.3	4.45	4.527
8/22/2015	7:07:59	0	-0.024	17.3	4.45	4.474
8/22/2015	11:07:59	0	-0.111	17.3	4.45	4.561
8/22/2015	15:07:59	0	-0.177	17.3	4.45	4.627
8/22/2015	19:07:59	0	-0.115	17.3	4.45	4.565
8/22/2015	23:07:59	0	-0.09	17.3	4.45	4.54
8/23/2015	3:07:59	0	-0.112	17.3	4.45	4.562
8/23/2015	7:07:59	0	-0.075	17.3	4.45	4.525
8/23/2015	11:07:59	0	-0.166	17.3	4.45	4.616
8/23/2015	15:07:59	0	-0.138	17.4	4.45	4.588
8/23/2015	19:07:59	0	-0.168	17.4	4.45	4.618
8/23/2015	23:07:59	0	-0.081	17.3	4.45	4.531
8/24/2015	3:07:59	0	-0.154	17.3	4.45	4.604
8/24/2015	7:07:59	0	-0.04	17.3	4.45	4.49
8/24/2015	11:07:59	0	-0.15	17.3	4.45	4.6
8/24/2015	15:07:59	0	-0.188	17.3	4.45	4.638
8/24/2015	19:07:59	0	-0.13	17.3	4.45	4.58
8/24/2015	23:07:59	0	-0.016	17.3	4.45	4.466
8/25/2015	3:07:59	0	-0.128	17.3	4.45	4.578
8/25/2015	7:07:59	0	-0.074	17.3	4.45	4.524
8/25/2015	11:07:59	0	-0.069	17.3	4.45	4.519
8/25/2015	15:07:59	0	-0.17	17.3	4.45	4.62
8/25/2015	19:07:59	0	-0.073	17.4	4.45	4.523
8/25/2015	23:07:59	0	0.002	17.3	4.45	4.448
8/26/2015	3:07:59	0	-0.065	17.3	4.45	4.515
8/26/2015	7:07:59	0	-0.033	17.3	4.45	4.483
8/26/2015	11:07:59	0	-0.046	17.3	4.45	4.496
8/26/2015	15:07:59	0	-0.149	17.4	4.45	4.599
8/26/2015	19:07:59	0	-0.091	17.4	4.45	4.541
8/26/2015	23:07:59	0	-0.001	17.3	4.45	4.451
8/27/2015	3:07:59	0	-0.122	17.3	4.45	4.572
8/27/2015	7:07:59	0	0.013	17.3	4.45	4.437
8/27/2015	11:07:59	0	-0.047	17.3	4.45	4.497
8/27/2015	15:07:59	0	-0.126	17.4	4.45	4.576

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8/27/2015	19:07:59	0	-0.038	17.4	4.45	4.488
8/27/2015	23:07:59	0	0.004	17.3	4.45	4.446
8/28/2015	3:07:59	0	-0.084	17.3	4.45	4.534
8/28/2015	7:07:59	0	-0.024	17.3	4.45	4.474
8/28/2015	11:07:59	0	-0.037	17.3	4.45	4.487
8/28/2015	15:07:59	0	-0.176	17.3	4.45	4.626
8/28/2015	19:07:59	0	-0.076	17.3	4.45	4.526
8/28/2015	23:07:59	0	-0.029	17.3	4.45	4.479
8/29/2015	3:07:59	0	-0.1	17.3	4.45	4.55
8/29/2015	7:07:59	0	-0.021	17.3	4.45	4.471
8/29/2015	11:07:59	0	-0.096	17.3	4.45	4.546
8/29/2015	15:07:59	0	-0.224	17.3	4.45	4.674
8/29/2015	19:07:59	0	-0.161	17.3	4.45	4.611
8/29/2015	23:07:59	0	-0.088	17.2	4.45	4.538
8/30/2015	3:07:59	0	-0.136	17.2	4.45	4.586
8/30/2015	7:07:59	0	-0.023	17.2	4.45	4.473
8/30/2015	11:07:59	0	-0.084	17.2	4.45	4.534
8/30/2015	15:07:59	0	-0.179	17.2	4.45	4.629
8/30/2015	19:07:59	0	-0.131	17.2	4.45	4.581
8/30/2015	23:07:59	0	-0.088	17.1	4.45	4.538
8/31/2015	3:07:59	0	-0.122	17.1	4.45	4.572
8/31/2015	7:07:59	0	-0.064	17.1	4.45	4.514
8/31/2015	11:07:59	0	-0.092	17.1	4.45	4.542
8/31/2015	15:07:59	0	-0.216	17.1	4.45	4.666
8/31/2015	19:07:59	0	-0.056	17.1	4.45	4.506
8/31/2015	23:07:59	0	-0.054	17.1	4.45	4.504
9/1/2015	3:07:59	0	-0.045	17.1	4.45	4.495
9/1/2015	7:07:59	0	-0.011	17.1	4.45	4.461
9/1/2015	11:07:59	0	-0.049	17.1	4.45	4.499
9/1/2015	15:07:59	0	-0.159	17.1	4.45	4.609
9/1/2015	19:07:59	0	-0.108	17.1	4.45	4.558
9/1/2015	23:07:59	0	-0.055	17.1	4.45	4.505
9/2/2015	3:07:59	0	-0.13	17.1	4.45	4.58
9/2/2015	7:07:59	0	-0.056	17.1	4.45	4.506
9/2/2015	11:07:59	0	-0.121	17.1	4.45	4.571
9/2/2015	15:07:59	0	-0.208	17.1	4.45	4.658
9/2/2015	19:07:59	0	-0.173	17.1	4.45	4.623
9/2/2015	23:07:59	0	-0.1	17.1	4.45	4.55
9/3/2015	3:07:59	0	-0.135	17.1	4.45	4.585
9/3/2015	7:07:59	0	-0.034	17.1	4.45	4.484
9/3/2015	11:07:59	0	-0.093	17.1	4.45	4.543
9/3/2015	15:07:59	0	-0.169	17.1	4.45	4.619
9/3/2015	19:07:59	0	-0.059	17.1	4.45	4.509
9/3/2015	23:07:59	0	0.002	17.1	4.45	4.448
9/4/2015	3:07:59	0	-0.041	17.1	4.45	4.491
9/4/2015	7:07:59	0	0.086	17.1	4.45	4.364
9/4/2015	11:07:59	0	0.005	17.1	4.45	4.445
9/4/2015	15:07:59	0	-0.1	17.1	4.45	4.55
9/4/2015	19:07:59	0	-0.049	17.1	4.45	4.499
9/4/2015	23:07:59	0	-0.009	17.1	4.45	4.459
9/5/2015	3:07:59	0	-0.104	17.1	4.45	4.554
9/5/2015	7:07:59	0	0.038	17.1	4.45	4.412
9/5/2015	11:07:59	0	-0.113	17.1	4.45	4.563
9/5/2015	15:07:59	0	-0.2	17.1	4.45	4.65
9/5/2015	19:07:59	0	-0.116	17.1	4.45	4.566
9/5/2015	23:07:59	0	-0.083	17.1	4.45	4.533
9/6/2015	3:07:59	0	-0.078	17.1	4.45	4.528
9/6/2015	7:07:59	0	-0.037	17.1	4.45	4.487
9/6/2015	11:07:59	0	-0.119	17.1	4.45	4.569
9/6/2015	15:07:59	0	-0.192	17.1	4.45	4.642
9/6/2015	19:07:59	0	-0.163	17.1	4.45	4.613
9/6/2015	23:07:59	0	-0.096	17.1	4.45	4.546
9/7/2015	3:07:59	0	-0.137	17.1	4.45	4.587
9/7/2015	7:07:59	0	-0.045	17.1	4.45	4.495
9/7/2015	11:07:59	0	-0.13	17.1	4.45	4.58
9/7/2015	15:07:59	0	-0.223	17.1	4.45	4.673
9/7/2015	19:07:59	0	-0.152	17.1	4.45	4.602
9/7/2015	23:07:59	0	-0.042	17	4.45	4.492
9/8/2015	3:07:59	0	-0.08	17	4.45	4.53
9/8/2015	7:07:59	0	-0.038	17	4.45	4.488
9/8/2015	11:07:59	0	-0.102	17	4.45	4.552
9/8/2015	15:07:59	0	-0.219	17	4.45	4.669
9/8/2015	19:07:59	0	-0.129	17	4.45	4.579
9/8/2015	23:07:59	0	-0.061	17	4.45	4.511
9/9/2015	3:07:59	0	-0.128	17	4.45	4.578
9/9/2015	7:07:59	0	-0.083	17	4.45	4.533
9/9/2015	11:07:59	0	-0.159	17	4.45	4.609
9/9/2015	15:07:59	0	-0.251	17	4.45	4.701
9/9/2015	19:07:59	0	-0.059	17	4.45	4.509
9/9/2015	23:07:59	0	-0.009	17	4.45	4.459
9/10/2015	3:07:59	0	-0.133	17	4.45	4.583
9/10/2015	7:07:59	0	-0.059	17	4.45	4.509
9/10/2015	11:07:59	0	-0.062	17	4.45	4.512
9/10/2015	15:07:59	0	-0.2	17.1	4.45	4.65
9/10/2015	19:07:59	0	-0.128	17.1	4.45	4.578
9/10/2015	23:07:59	0	-0.126	17.1	4.45	4.576
9/11/2015	3:07:59	0	-0.169	17.1	4.45	4.619

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9/11/2015	7:07:59	0	-0.055	17.1	4.45	4.505
9/11/2015	11:07:59	0	-0.079	17.1	4.45	4.529
9/11/2015	15:07:59	0	-0.132	17.1	4.45	4.582
9/11/2015	19:07:59	0	-0.063	17.1	4.45	4.513
9/11/2015	23:07:59	0	-0.034	17.1	4.45	4.484
9/12/2015	3:07:59	0	-0.092	17.1	4.45	4.542
9/12/2015	7:07:59	0	-0.048	17.1	4.45	4.498
9/12/2015	11:07:59	0	-0.111	17.1	4.45	4.561
9/12/2015	15:07:59	0	-0.205	17.1	4.45	4.655
9/12/2015	19:07:59	0	-0.142	17.1	4.45	4.592
9/12/2015	23:07:59	0	-0.171	17.2	4.45	4.621
9/13/2015	3:07:59	0	-0.136	17.3	4.45	4.586
9/13/2015	7:07:59	0	-0.021	17.3	4.45	4.471
9/13/2015	11:07:59	0	-0.058	17.4	4.45	4.508
9/13/2015	15:07:59	0	-0.143	17.4	4.45	4.593
9/13/2015	19:07:59	0	-0.036	17.4	4.45	4.486
9/13/2015	23:07:59	0	-0.012	17.4	4.45	4.462
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9/14/2015	7:07:59	0	0.016	17.4	4.45	4.434
9/14/2015	11:07:59	0	0.051	17.3	4.45	4.399
9/14/2015	15:07:59	0	0.041	17.3	4.45	4.409
9/14/2015	19:07:59	0	0.023	17.2	4.45	4.427
9/14/2015	23:07:59	0	0.028	17.2	4.45	4.422
9/15/2015	3:07:59	0	0.017	17.2	4.45	4.433
9/15/2015	7:07:59	0	0.015	17.1	4.45	4.435
9/15/2015	11:07:59	0	-0.028	17.1	4.45	4.478
9/15/2015	15:07:59	0	-0.157	17.1	4.45	4.607
9/15/2015	19:07:59	0	-0.073	17.1	4.45	4.523
9/15/2015	23:07:59	0	-0.039	17.1	4.45	4.489
9/16/2015	3:07:59	0	-0.087	17	4.45	4.537
9/16/2015	7:07:59	0	-0.026	17	4.45	4.476
9/16/2015	11:07:59	0	-0.087	17	4.45	4.537
9/16/2015	15:07:59	0	-0.223	17	4.45	4.673
9/16/2015	19:07:59	0	-0.159	17	4.45	4.609
9/16/2015	23:07:59	0	-0.087	16.9	4.45	4.537
9/17/2015	3:07:59	0	-0.151	16.9	4.45	4.601
9/17/2015	7:07:59	0	-0.076	16.9	4.45	4.526
9/17/2015	11:07:59	0	-0.129	16.9	4.45	4.579
9/17/2015	15:07:59	0	-0.234	16.9	4.45	4.684
9/17/2015	19:07:59	0	-0.138	16.9	4.45	4.588
9/17/2015	23:07:59	0	-0.094	16.8	4.45	4.544
9/18/2015	3:07:59	0	-0.136	16.8	4.45	4.586
9/18/2015	7:07:59	0	-0.029	16.8	4.45	4.479
9/18/2015	11:07:59	0	-0.109	16.8	4.45	4.559
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9/18/2015	19:07:59	0	-0.117	16.8	4.45	4.567
9/18/2015	23:07:59	0	-0.049	16.8	4.45	4.499
9/19/2015	3:07:59	0	-0.158	16.7	4.45	4.608
9/19/2015	7:07:59	0	-0.058	16.7	4.45	4.508
9/19/2015	11:07:59	0	-0.137	16.7	4.45	4.587
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9/19/2015	19:07:59	0	-0.166	16.7	4.45	4.616
9/19/2015	23:07:59	0	-0.078	16.7	4.45	4.528
9/20/2015	3:07:59	0	0.019	16.7	4.45	4.431
9/20/2015	7:07:59	0	0.059	16.7	4.45	4.391
9/20/2015	11:07:59	0	0.081	16.7	4.45	4.369
9/20/2015	15:07:59	0	-0.13	16.7	4.45	4.58
9/20/2015	19:07:59	0	-0.037	16.6	4.45	4.487
9/20/2015	23:07:59	0	-0.036	16.6	4.45	4.486
9/21/2015	3:07:59	0	-0.037	16.6	4.45	4.487
9/21/2015	7:07:59	0	0.035	16.6	4.45	4.415
9/21/2015	11:07:59	0	-0.022	16.6	4.45	4.472
9/21/2015	15:07:59	0	-0.11	16.6	4.45	4.56
9/21/2015	19:07:59	0	-0.065	16.6	4.45	4.515
9/21/2015	23:07:59	0	-0.056	16.6	4.45	4.506
9/22/2015	3:07:59	0	-0.072	16.6	4.45	4.522
9/22/2015	7:07:59	0	0.005	16.6	4.45	4.445
9/22/2015	11:07:59	0	-0.08	16.5	4.45	4.53
9/22/2015	15:07:59	0	-0.169	16.5	4.45	4.619
9/22/2015	19:07:59	0	-0.108	16.5	4.45	4.558
9/22/2015	23:07:59	0	-0.09	16.5	4.45	4.54
9/23/2015	3:07:59	0	-0.11	16.5	4.45	4.56
9/23/2015	7:07:59	0	-0.034	16.4	4.45	4.484
9/23/2015	11:07:59	0	-0.079	16.4	4.45	4.529
9/23/2015	15:07:59	0	-0.167	16.4	4.45	4.617
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9/23/2015	23:07:59	0	-0.062	16.4	4.45	4.512
9/24/2015	3:07:59	0	-0.053	16.3	4.45	4.503
9/24/2015	7:07:59	0	0.003	16.3	4.45	4.447
9/24/2015	11:07:59	0	-0.01	16.3	4.45	4.46
9/24/2015	15:07:59	0	-0.158	16.3	4.45	4.608
9/24/2015	19:07:59	0	-0.058	16.3	4.45	4.508
9/24/2015	23:07:59	0	-0.017	16.2	4.45	4.467
9/25/2015	3:07:59	0	-0.109	16.2	4.45	4.559
9/25/2015	7:07:59	0	-0.03	16.2	4.45	4.48
9/25/2015	11:07:59	0	-0.041	16.2	4.45	4.491
9/25/2015	15:07:59	0	-0.193	16.1	4.45	4.643

Ground Water Level Data - 2015
Replication Area I - Well #2
Pittsfield Airport, Pittsfield, MA

Ground Water Level Data - 2015
Replication Area I - Well #2
Pittsfield Airport, Pittsfield, MA

9/25/2015	19:07:59	0	-0.104	16.1	4.45	4.554
9/25/2015	23:07:59	0	-0.066	16.1	4.45	4.516
9/26/2015	3:07:59	0	-0.042	16.1	4.45	4.492
9/26/2015	7:07:59	0	0.024	16.1	4.45	4.426
9/26/2015	11:07:59	0	0.001	16	4.45	4.449
9/26/2015	15:07:59	0	-0.191	16	4.45	4.641
9/26/2015	19:07:59	0	-0.07	16	4.45	4.52
9/26/2015	23:07:59	0	-0.056	16	4.45	4.506
9/27/2015	3:07:59	0	-0.114	16	4.45	4.564
9/27/2015	7:07:59	0	-0.05	15.9	4.45	4.5
9/27/2015	11:07:59	0	-0.105	15.9	4.45	4.555
9/27/2015	15:07:59	0	-0.262	15.9	4.45	4.712
9/27/2015	19:07:59	0	-0.147	15.9	4.45	4.597
9/27/2015	23:07:59	0	-0.077	15.9	4.45	4.527
9/28/2015	3:07:59	0	-0.155	15.8	4.45	4.605
9/28/2015	7:07:59	0	-0.075	15.8	4.45	4.525
9/28/2015	11:07:59	0	-0.109	15.8	4.45	4.559
9/28/2015	15:07:59	0	-0.231	15.8	4.45	4.681
9/28/2015	19:07:59	0	-0.154	15.8	4.45	4.604
9/28/2015	23:07:59	0	-0.119	15.7	4.45	4.569
9/29/2015	3:07:59	0	-0.136	15.7	4.45	4.586
9/29/2015	7:07:59	0	-0.093	15.7	4.45	4.543
9/29/2015	11:07:59	0	-0.135	15.7	4.45	4.585
9/29/2015	15:07:59	0	-0.207	15.6	4.45	4.657
9/29/2015	19:07:59	0	-0.131	15.6	4.45	4.581
9/29/2015	23:07:59	0	-0.139	15.6	4.45	4.589
9/30/2015	3:07:59	0	-0.272	15.6	4.45	4.722
9/30/2015	7:07:59	0	-0.383	15.6	4.45	4.833
9/30/2015	11:07:59	0	0.035	15.6	4.45	4.415
9/30/2015	15:07:59	0	0.061	15.6	4.45	4.389
9/30/2015	19:07:59	0	0.145	15.6	4.45	4.305
9/30/2015	23:07:59	0	0.041	15.7	4.45	4.409
10/1/2015	3:07:59	0	-0.045	15.7	4.45	4.495
10/1/2015	7:07:59	0	0.012	15.7	4.45	4.438
10/1/2015	11:07:59	0	-0.034	15.7	4.45	4.484
10/1/2015	15:07:59	0	-0.101	15.7	4.45	4.551
10/1/2015	19:07:59	0	0.028	15.7	4.45	4.422
10/1/2015	23:07:59	0	0.324	15.7	4.45	4.126
10/2/2015	3:07:59	0	0.57	15.7	4.45	3.88
10/2/2015	7:07:59	0	0.915	15.7	4.45	3.535
10/2/2015	11:07:59	0	1.2	15.6	4.45	3.25
10/2/2015	15:07:59	0	1.491	15.6	4.45	2.959
10/2/2015	19:07:59	0	1.78	15.6	4.45	2.67
10/2/2015	23:07:59	0	1.951	15.6	4.45	2.499
10/3/2015	3:07:59	0	2.049	15.6	4.45	2.401
10/3/2015	7:07:59	0	2.251	15.6	4.45	2.199
10/3/2015	11:07:59	0	2.223	15.6	4.45	2.227
10/3/2015	15:07:59	0	2.224	15.6	4.45	2.226
10/3/2015	19:07:59	0	2.299	15.5	4.45	2.151
10/3/2015	23:07:59	0	2.267	15.5	4.45	2.183
10/4/2015	3:07:59	0	2.246	15.5	4.45	2.204
10/4/2015	7:07:59	0	2.314	15.5	4.45	2.136
10/4/2015	11:07:59	0	2.221	15.4	4.45	2.229
10/4/2015	15:07:59	0	2.163	15.4	4.45	2.287
10/4/2015	19:07:59	0	2.223	15.4	4.45	2.227
10/4/2015	23:07:59	0	2.224	15.3	4.45	2.226
10/5/2015	3:07:59	0	2.169	15.3	4.45	2.281
10/5/2015	7:07:59	0	2.176	15.2	4.45	2.274
10/5/2015	11:07:59	0	2.113	15.2	4.45	2.337
10/5/2015	15:07:59	0	1.99	15.1	4.45	2.46
10/5/2015	19:07:59	0	2.066	15.1	4.45	2.384
10/5/2015	23:07:59	0	2.034	15.1	4.45	2.416
10/6/2015	3:07:59	0	1.964	15.1	4.45	2.486
10/6/2015	7:07:59	0	1.981	15.1	4.45	2.469
10/6/2015	11:07:59	0	1.791	15	4.45	2.659

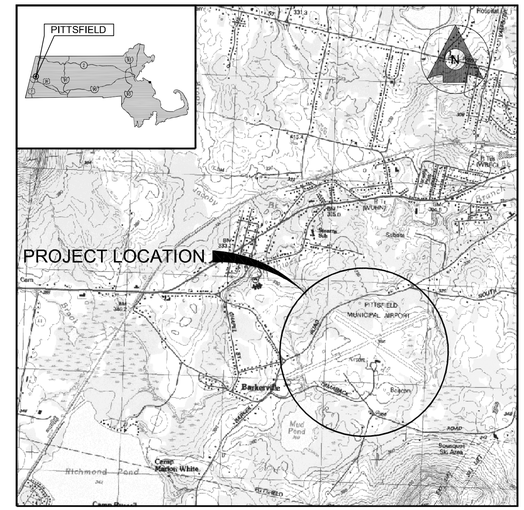
AVERAGE LEVEL ABOVE LOGGER	**1.7168**

AVERAGE GW DEPTH BELOW GROUND EL	**2.7332**
MINIMUM	-0.741
MAXIMUM	4.833
# of readings less than 2.1'	414

Ground Water Level Data - 2015
Replication Area I - Well #2
Pittsfield Airport, Pittsfield, MA

Appendix E Replication Areas B,E &I Construction Plans

Stantec



VICINITY MAP
NOT TO SCALE

PITTSFIELD MUNICIPAL AIRPORT
PITTSFIELD, MASSACHUSETTS

NOTICE OF INTENT FOR AIRPORT IMPROVEMENTS
- WETLAND MITIGATION PLAN SET

REVISED AUGUST 2009

COMMONWEALTH OF MASSACHUSETTS
JAMES E. McLAUGHLIN
CIVIL
NO. 39256
REGISTERED PROFESSIONAL ENGINEER

INDEX OF SHEETS

SHEET NO.	TITLE
SHEET 00	COVER SHEET
SHEET 01	WETLAND REPLICATION AREA B AND WILD ACRES BROOK RIVERFRONT RESTORATION AREA
SHEET 02	WETLAND REPLICATION AREA E
SHEET 03	WETLAND REPLICATION AREA H
SHEET 04	WETLAND REPLICATION AREA I
SHEET 05	WETLAND REPLICATION AREA CROSS SECTIONS
SHEET 06	WILD ACRES BROOK IMPROVEMENTS
SHEET 07	WILD ACRES BROOK IMPROVEMENTS AND ENHANCEMENT CROSS SECTIONS
SHEET 08	WILD ACRES BROOK IMPROVEMENTS DETAILS
SHEET 09	MUD POND BROOK RIVERFRONT RESTORATION

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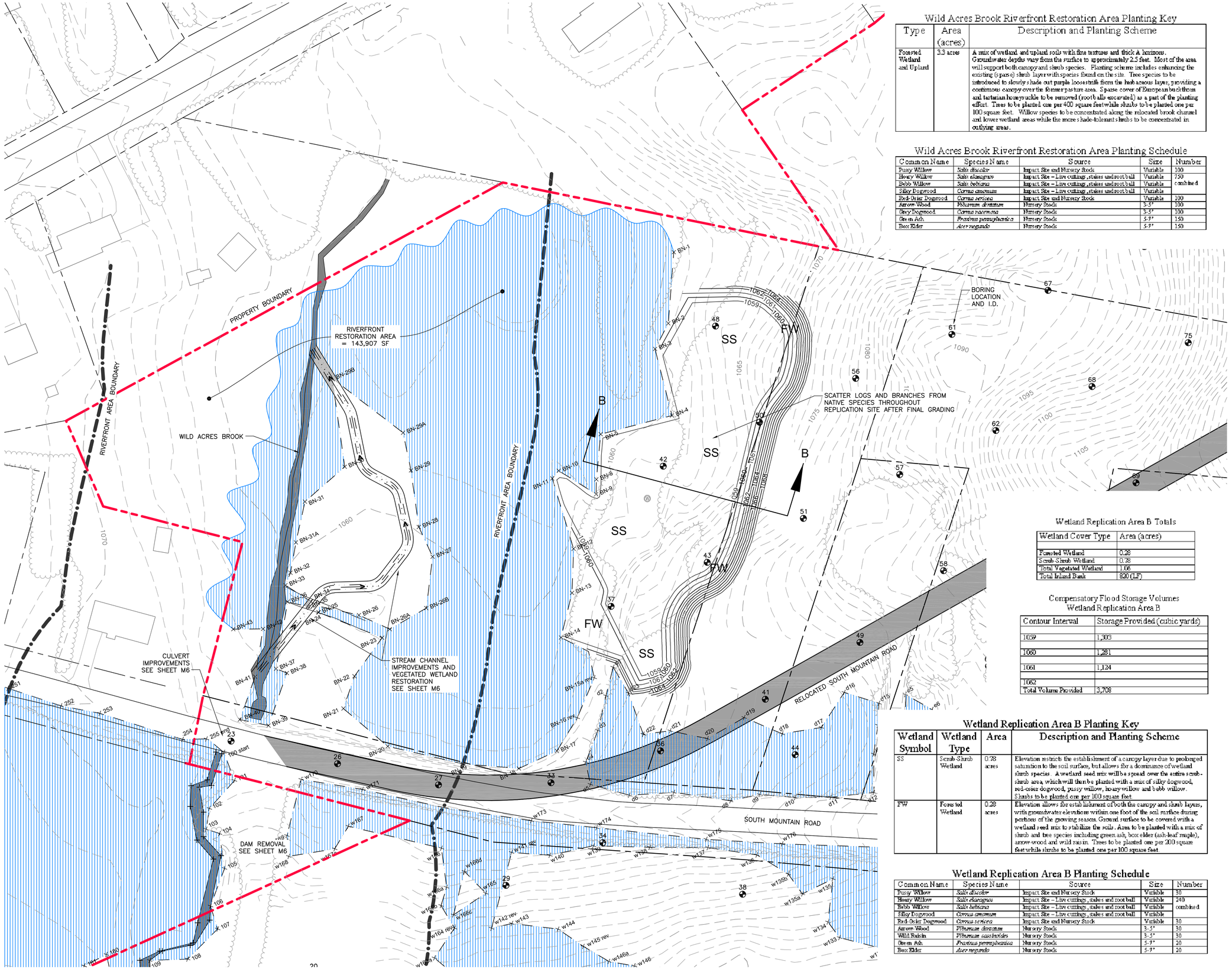

Wild Acres Brook Riverfront Restoration Area Planting Key

Type	Area (acres)	Description and Planting Scheme
Forested Wetland and Upland	3.3 acres	A mix of wetland and upland soils with fine textures and thick A horizons. Groundwater depths vary from the surface to approximately 2.5 feet. Most of the area will support both canopy and shrub species. Planting scheme includes enhancing the existing (sparse) shrub layer with species found on the site. Tree species to be introduced to slowly shade out purple loosestrife from the herbaceous layer, providing a continuous canopy over the former pasture area. Sparse cover of European buckthorn and tartarian honeysuckle to be removed (roots all excavated) as a part of the planting effort. Trees to be planted one per 400 square feet while shrubs to be planted one per 100 square feet. Willow species to be concentrated along the relocated brook channel and lower wetland areas while the more shade-tolerant shrubs to be concentrated in outlying areas.

Wild Acres Brook Riverfront Restoration Area Planting Schedule

Common Name	Species Name	Source	Size	Number
Pussy Willow	*Salix discolor*	Impact Site and Nursery Stock	Variable	100
Hoary Willow	*Salix eleagnos*	Impact Site – Live cuttings, stakes and root ball	Variable	250
Bebb Willow	*Salix bebiana*	Impact Site – Live cuttings, stakes and root ball	Variable	combined
Silky Dogwood	*Cornus amomum*	Impact Site – Live cuttings, stakes and root ball	Variable	
Red-Osier Dogwood	*Cornus sericea*	Impact Site and Nursery Stock	Variable	100
Arrow-Wood	*Viburnum dentatum*	Nursery Stock	3-5'	100
Grey Dogwood	*Cornus racemosa*	Nursery Stock	3-5'	100
Green Ash	*Fraxinus pennsylvanica*	Nursery Stock	5-7'	150
Boxi Elder	*Acer negundo*	Nursery Stock	5-7'	150

Wetland Replication Area B Totals

Wetland Cover Type	Area (acres)
Forested Wetland	0.28
Scrub-Shrub Wetland	0.78
Total Vegetated Wetland	1.06
Total Inland Bank	820 (LF)

Compensatory Flood Storage Volumes Wetland Replication Area B

Contour Interval	Storage Provided (cubic yards)
1059	1,303
1060	1,281
1061	1,124
1062	
Total Volume Provided	3,708

Wetland Replication Area B Planting Key

Wetland Symbol	Wetland Type	Area	Description and Planting Scheme
SS	Scrub-Shrub Wetland	0.78 acres	Elevation restricts the establishment of a canopy layer due to prolonged saturation to the soil surface, but allows for a dominance of wetland shrub species. A wetland seed mix will be spread over the entire scrub-shrub area, which will then be planted with a mix of silky dogwood, red-osier dogwood, pussy willow, hoary willow and bebb willow. Shrubs to be planted one per 100 square feet.
FW	Forested Wetland	0.28 acres	Elevation allows for establishment of both the canopy and shrub layers, with groundwater elevations within one foot of the soil surface during portions of the growing season. Ground surface to be covered with a wetland seed mix to stabilize the soils. Area to be planted with a mix of shrub and tree species including green ash, box elder (ash-leaf maple), arrow-wood and wild raisin. Trees to be planted one per 200 square feet while shrubs to be planted one per 100 square feet.

Wetland Replication Area B Planting Schedule

Common Name	Species Name	Source	Size	Number
Pussy Willow	*Salix discolor*	Impact Site and Nursery Stock	Variable	30
Hoary Willow	*Salix eleagnos*	Impact Site – Live cuttings, stakes and root ball	Variable	240
Bebb Willow	*Salix bebiana*	Impact Site – Live cuttings, stakes and root ball	Variable	combined
Silky Dogwood	*Cornus amomum*	Impact Site – Live cuttings, stakes and root ball	Variable	
Red-Osier Dogwood	*Cornus sericea*	Impact Site and Nursery Stock	Variable	30
Arrow-Wood	*Viburnum dentatum*	Nursery Stock	3-5'	30
Wild Raisin	*Viburnum cassinoides*	Nursery Stock	3-5'	30
Green Ash	*Fraxinus pennsylvanica*	Nursery Stock	5-9'	20
Box Elder	*Acer negundo*	Nursery Stock	5-9'	20

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Stantec

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Consultants

Legend

Notes

N

40' 0 40' 80'

Revision	By	Appd.	YY.MM.DD
2 WETLAND FLAG/MITIGATION AREA CHANGES	RC	RC	09.08.13
1 ADDED WETLAND J / WETLAND FLAG CHANGES	RC	RC	09.07.22

Issued	By	Appd.	YY.MM.DD
File Name:	LRK Dwn.	RC Chkd.	RC Dsgn.	09.06.16 YY.MM.DD

Permit-Seal

COMMONWEALTH OF MASSACHUSETTS JAMES E. McLAUGHLIN No. 39256 REGISTERED PROFESSIONAL ENGINEER

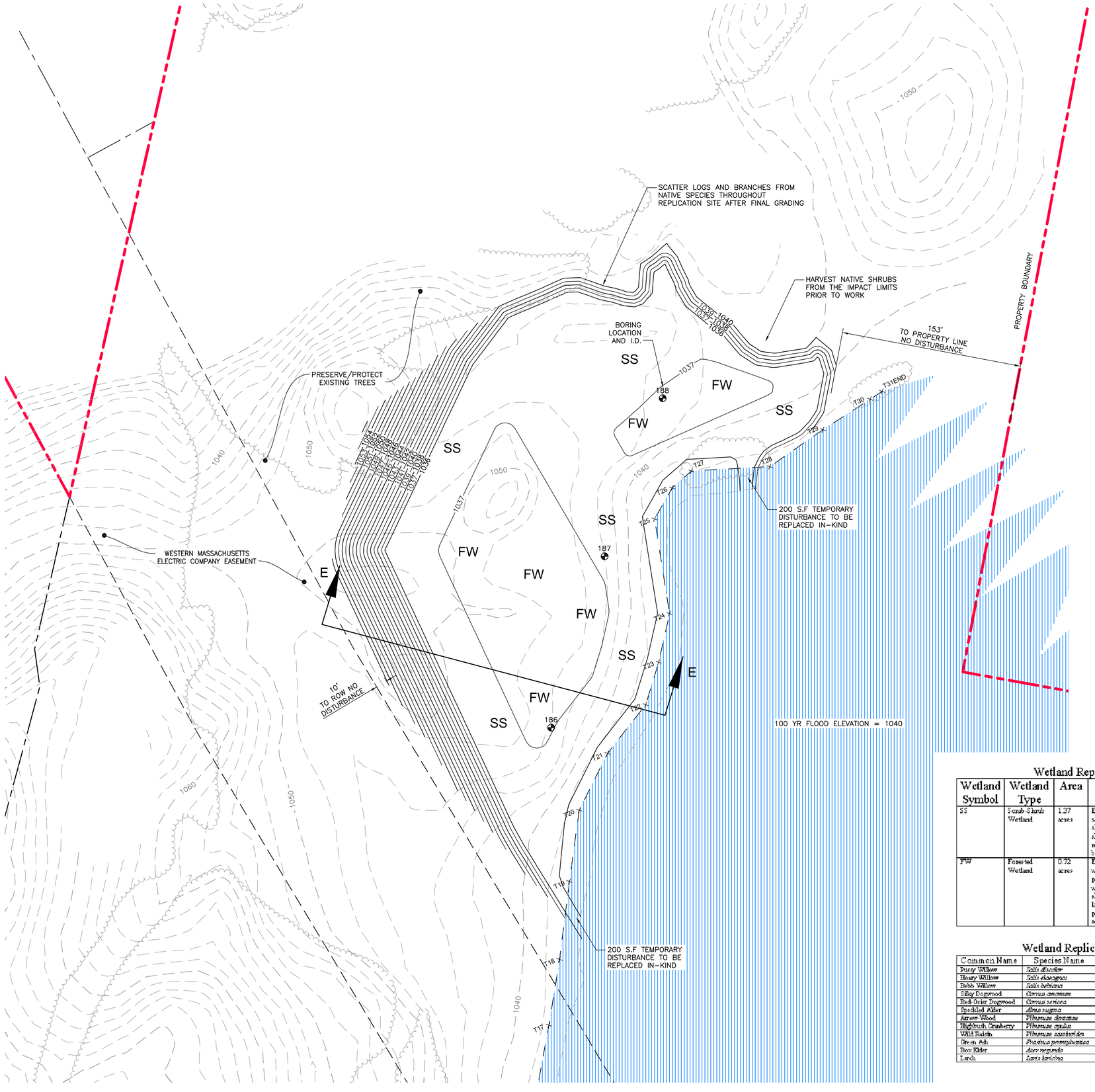
Client/Project
PITTSFIELD MUNICIPAL AIRPORT
NOTICE OF INTENT PLAN SET

PITTSFIELD, MASSACHUSETTS

Title
WETLAND REPLICATION AREA B AND WILD ACRES BROOK RIVERFRONT RESTORATION AREA

Project No.	Scale	
195210027	AS SHOWN	
Dwg No.	Sheet	Revision
M1	1 of 9	2

V:\195210027\MA Wetlands Protection a\CAD drawings 2009\plans\2009_NOI_SetSheet_M1_thru_M5_Wetland_Replication.dwg, Sheet:M1, 8/28/2009 1:16:59 PM, irking, pl_2_mv01.pc3



Wetland Replication Area E Totals

Wetland Cover Type	Area (acres)
Forested Wetland	0.72
Scrub-Shrub Wetland	1.37
Total Replication Area E...	2.09

Compensatory Flood Storage Volume
Wetland Replication Area E...

Contour Interval	Storage Provided (cubic yards)
1036	2,803
1037	3,206
1038	3,323
1039	3,251
1040	
Total Volume Provided	12,583

Wetland Replication Area E Planting Key

Wetland Symbol	Wetland Type	Area	Description and Planting Scheme
SS	Scrub-Shrub Wetland	1.37 acres	Elevation restricts the establishment of a canopy layer due to prolonged saturation to the soil surface, but allows for a dominance of wetland shrub species. A wetland seed mix will be spread over the entire scrub-shrub area, which will then be planted with a mix of silky dogwood, red-osier dogwood, speckled alder, pussy willow, hoary willow and bebb willow. Shrubs to be planted one per 100 square feet.
FW	Forested Wetland	0.72 acres	Elevation allows for establishment of both the canopy and shrub layers, with groundwater elevations within one foot of the soil surface during portions of the growing season. Ground surface to be covered with a wetland seed mix to stabilize the soils. Area to be planted with a mix of shrub and tree species including green ash, box elder (ashleaf maple), larch, arrow-wood, highbush cranberry and wild raisin. Trees to be planted one per 200 square feet while shrubs to be planted one per 100 square feet

Wetland Replication Area E Planting Schedule

Common Name	Species Name	Source	Size	Number
Pussy Willow	*Salix discolor*	Impact Site and Nursery Stock	Variable	50
Hoary Willow	*Salix eleagnos*	Impact Site – Live cuttings, stakes and root ball	Variable	450
Bebb Willow	*Salix bebbiana*	Impact Site – Live cuttings, stakes and root ball	Variable	combined
Silky Dogwood	*Cornus amomum*	Impact Site – Live cuttings, stakes and root ball	Variable	
Red-Osier Dogwood	*Cornus sericea*	Impact Site and Nursery Stock	Variable	50
Speckled Alder	*Alnus rugosa*	Nursery Stock	3-5'	50
Arrow-Wood	*Viburnum dentatum*	Nursery Stock	3-5'	100
Highbush Cranberry	*Viburnum opulus*	Nursery Stock	3-5'	100
Wild Raisin	*Viburnum cassinoides*	Nursery Stock	3-5'	100
Green Ash	*Fraxinus pennsylvanica*	Nursery Stock	5-7'	40
Box Elder	*Acer negundo*	Nursery Stock	5-7'	40
Larch	*Larix laricina*	Nursery Stock	5-7'	40

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Legend

Notes

N

40' 0 40' 80'

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

File Name:	LRK	RC	RC	09.06.16
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

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JAMES E. McLAUGHLIN No. 39256 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS Civil

Client/Project

PITTSFIELD MUNICIPAL AIRPORT
NOTICE OF INTENT PLAN SET

PITTSFIELD, MASSACHUSETTS

Title

WETLAND REPLICATION AREA E

Project No.	Scale	
195210027	AS SHOWN	
Dwg No.	Sheet	Revision
M2	2 of 9	0

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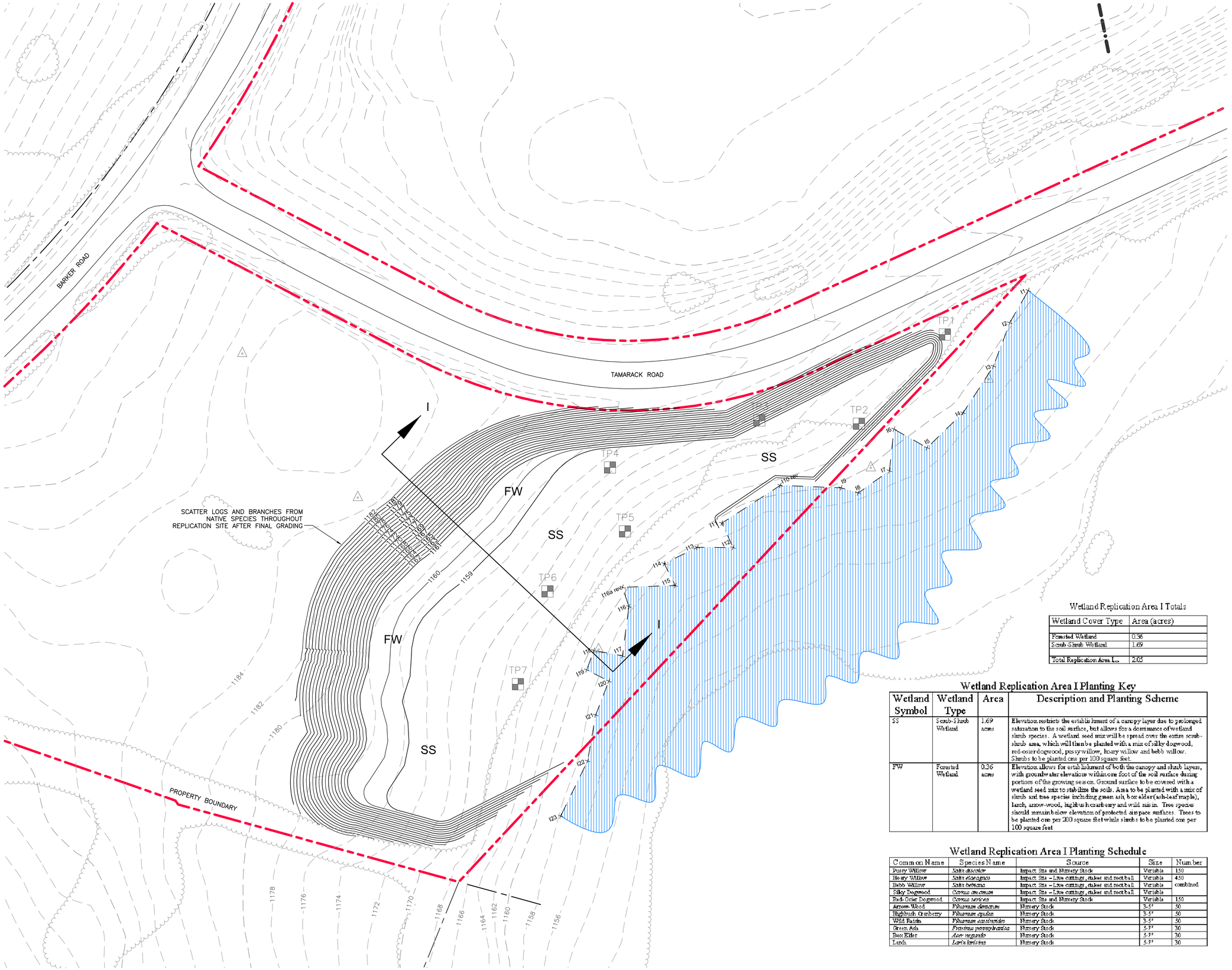

Wetland Replication Area I Totals

Wetland Cover Type	Area (acres)
Forested Wetland	0.36
Scrub-Shrub Wetland	1.69
Total Replication Area I...	2.05

Wetland Replication Area I Planting Key

Wetland Symbol	Wetland Type	Area	Description and Planting Scheme
SS	Scrub-Shrub Wetland	1.69 acres	Elevation restricts the establishment of a canopy layer due to prolonged saturation to the soil surface, but allows for a dominance of wetland shrub species. A wetland seed mix will be spread over the entire scrub-shrub area, which will then be planted with a mix of silky dogwood, red-osier dogwood, pussy willow, hoary willow and bebb willow. Shrubs to be planted one per 100 square feet.
FW	Forested Wetland	0.36 acres	Elevation allows for establishment of both the canopy and shrub layers, with groundwater elevations within one foot of the soil surface during portions of the growing season. Ground surface to be covered with a wetland seed mix to stabilize the soils. Area to be planted with a mix of shrub and tree species including green ash, box elder(ash-leaf maple), larch, arrow-wood, highbush cranberry and wild raisin. Tree species should remain below elevation of protected airspace surfaces. Trees to be planted one per 200 square feet while shrubs to be planted one per 100 square feet

Wetland Replication Area I Planting Schedule

Common Name	Species Name	Source	Size	Number
Pussy Willow	*Salix discolor*	Impact Site and Nursery Stock	Variable	150
Hoary Willow	*Salix eriocpus*	Impact Site – Live cuttings, stakes and root ball	Variable	450
Bebb Willow	*Salix bebbiana*	Impact Site – Live cuttings, stakes and root ball	Variable	combined
Silky Dogwood	*Cornus amomum*	Impact Site – Live cuttings, stakes and root ball	Variable	
Red-Osier Dogwood	*Cornus sericea*	Impact Site and Nursery Stock	Variable	150
Arrow-Wood	*Viburnum dentatum*	Nursery Stock	3-5'	50
Highbush Cranberry	*Viburnum opulus*	Nursery Stock	3-5'	50
Wild Raisin	*Viburnum cassinoides*	Nursery Stock	3-5'	50
Green Ash	*Fraxinus pennsylvanica*	Nursery Stock	5-7'	30
Box Elder	*Acer negundo*	Nursery Stock	5-7'	30
Larch	*Larix laricina*	Nursery Stock	5-7'	30

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SURVEY CONTROL POINT

TP3 TEST PIT LOCATION

Notes

N

40' 0 40' 80'

2	WETLAND FLAG/MITIGATION AREA CHANGES	RC	RC	09.08.13
1	WETLAND FLAG CHANGES	RC	RC	09.07.22
Revision		By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD
File Name:	LRK	RC	RC	09.06.16
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

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COMMONWEALTH OF MASSACHUSETTS JAMES E. McLAUGHLIN No. 39256 REGISTERED PROFESSIONAL ENGINEER

Client/Project

PITTSFIELD MUNICIPAL AIRPORT
NOTICE OF INTENT PLAN SET

PITTSFIELD, MASSACHUSETTS

Title

WETLAND REPLICATION AREA I

Project No.	Scale	
195210027	AS SHOWN	
Dwg No.	Sheet	Revision
M4	4 of 9	2

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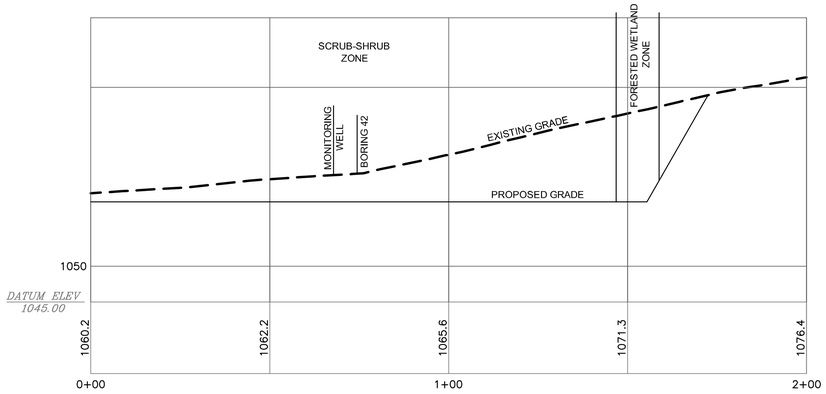

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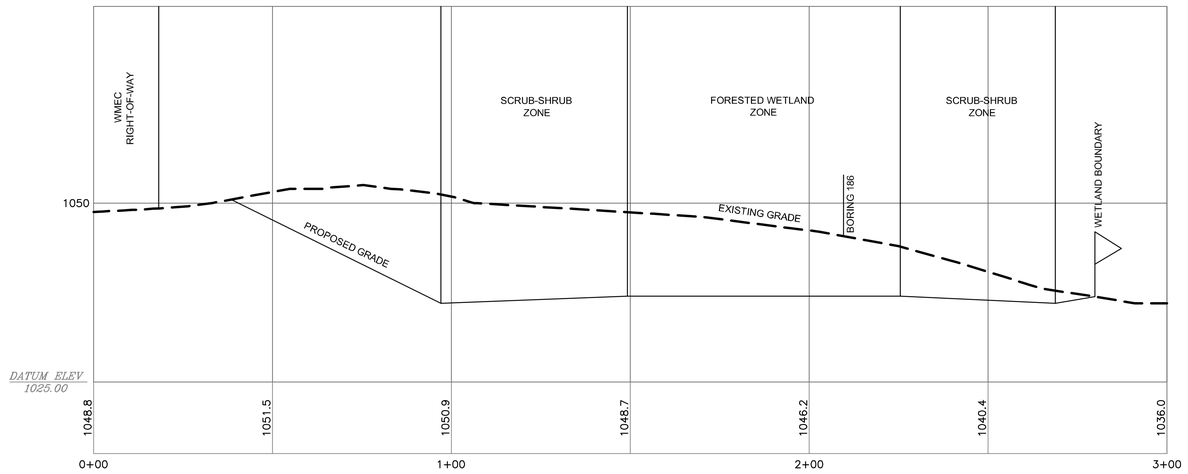

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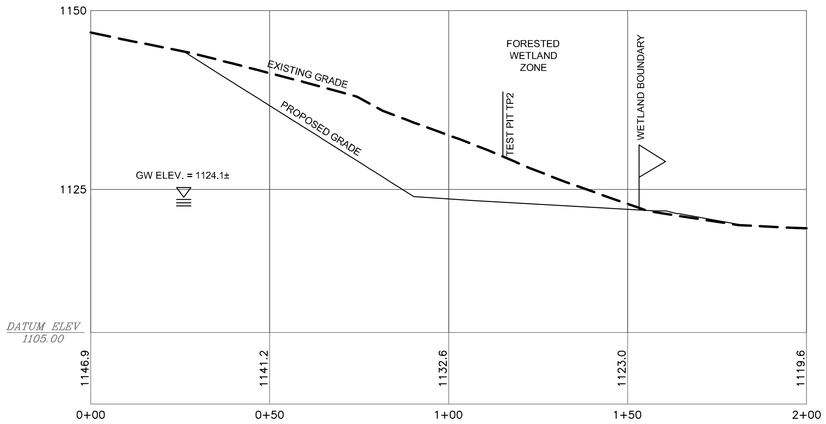

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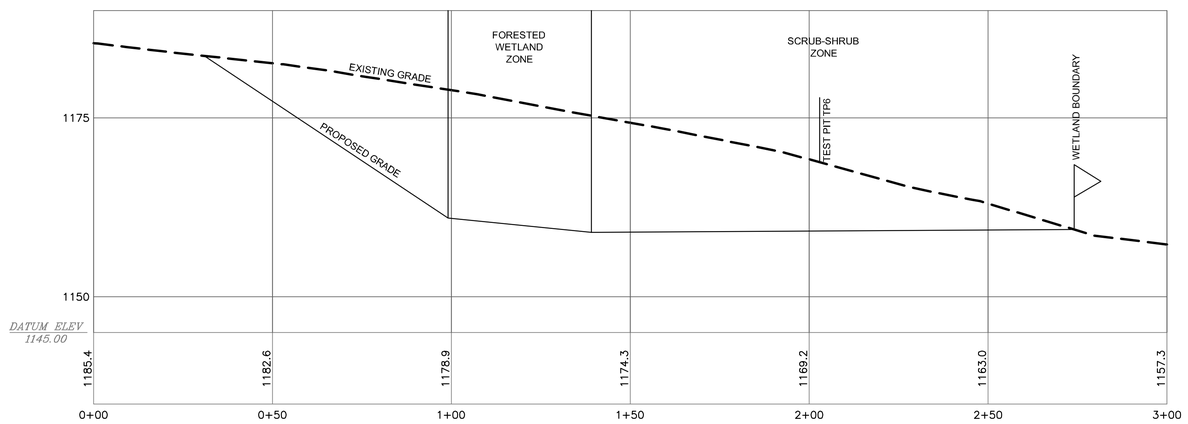

CROSS SECTION I–I
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File Name:	LRK	RC	RC	09.06.16
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Client/Project
PITTSFIELD MUNICIPAL AIRPORT
NOTICE OF INTENT PLAN SET

PITTSFIELD, MASSACHUSETTS

Title
WETLAND REPLICATION AREA
CROSS SECTIONS

Project No.	Scale	
195210027	AS SHOWN	
Dwg No.	Sheet	Revision
M5	5 of 9	0

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