



# Grant All-Detail Report

## LWM-NRBG 2014

**Grant Title** - 2014 - Local Water Management - NRBG (Washington County)

**Grant ID** - P14-2365

**Organization** - Washington County

<b>Grant Awarded Amount</b>	<b>\$8,094.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	<b>\$0.00</b>	<b>Grant End Date</b>	12/31/2016
<b>Required Match %</b>	<b>0%</b>	<b>Grant Day To Day Contact</b>	Stephanie Souter

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$8,094.00	\$8,094.00	\$0.00
Total Match Amount	\$299,233.00	\$299,233.00	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$307,327.00</b>	<b>\$307,327.00</b>	<b>\$0.00</b>

*\*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.*

### Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
WCD & EMWREP Education/Information 2014	Education/Information	Local Fund	2014 WCD Match	\$40,000.00	\$40,000.00	12/31/2014	Y
WCD Inventory/Mapping 2014	Inventory/Mapping	Local Fund	2014 WCD Water Management Match	\$15,000.00	\$15,000.00	12/31/2014	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
WCD Monitoring/Data Collection 2014	Monitoring/Data Collection	Local Fund	2014 WCD Water Management Match	\$10,000.00	\$10,000.00	12/31/2014	Y
WCD Regulations & Ordinances 2014	Regulations/Ordinances/Enforcement	Local Fund	2014 WCD Water Management Match	\$5,200.00	\$5,200.00	12/31/2014	Y
WCD Staff Services 2014	Technical/Engineering Assistance	Local Fund	2014 WCD Water Management Match	\$160,000.00	\$160,000.00	12/31/2014	Y
WCPHE Admin/Coordination 2014	Administration/Coordination	Current State Grant	2014 - Local Water Management - NRBG (Washington County)	\$8,094.00	\$8,094.00	12/31/2014	N
WCPHE Admin/Coordination 2014	Administration/Coordination	Local Fund	2014 PHE Water Management Match	\$27,033.00	\$27,033.00	12/31/2014	Y
WCPHE Education/Information 2014	Education/Information	Local Fund	2014 PHE Water Management Match	\$4,000.00	\$4,000.00	12/31/2014	Y
WCPHE Monitoring and Data Collection 2014	Monitoring/Data Collection	Local Fund	2014 PHE Water Management Match	\$4,000.00	\$4,000.00	12/31/2014	Y
WCPHE Planning 2014	Planning and Assessment	Local Fund	2014 PHE Water Management Match	\$34,000.00	\$34,000.00	12/31/2014	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
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### Indicators Summary

Indicator Name	Total Value	Unit
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## Grant Activity

### Grant Activity - WCD & EMWREP Education/Information 2014

<b>Description</b>	The WCD assists and supports educational activities in the County that enhance the County's surface water management, groundwater management, and soil conservation initiatives. The WCD shall direct education activities to educate the public and promote conservation activities. Target audiences include: 1 . Landowners, 2 . Decision-makers, 3 . Students and Teachers, 4 . Other audiences as identified as programs are implemented.		
<b>Category</b>	EDUCATION/INFORMATION		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	2014 education and outreach included newsletters, articles, booths at local events, workshops, presentations. Some specific topics covered included rain garden installation and care, aquatic invasive species, agricultural practices, manure management for horse owners, a floating workshop on the St Croix River, and many more. EMREP also helps coordinate between watershed districts, water consortium, and other resources management agencies. Additional information is available in the EMWREP annual report, available upon request.		

### Grant Activity - WCD Inventory/Mapping 2014

<b>Description</b>	The WCD will continue efforts to add wetland impact data to the County's GIS system, coordinate natural resource data, update and refine land cover mapping, map BMPS, map monitoring sites, and review local inventory efforts. Includes updating County Conservation Plan. Includes mapping of priority practices identified in subwatershed assessments.		
<b>Category</b>	INVENTORY/MAPPING		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	WCD worked with county and watersheds to development and populate the BMP Inspection and Maintenance System. The new system is map and web based. Over 700 practices were inspected.		

## Grant Activity - WCD Monitoring/Data Collection 2014

<b>Description</b>	The WCD coordinates the monitoring of vital water resources in Washington County to increase the understanding of the water quality conditions and trends within the County. 1. Continue implementation of a baseline - monitoring and assessment. 2. Analyze data from stream monitoring sites, lake water quality monitoring sites and lake level gages. 3. Expand the number of monitoring sites to areas not currently being monitored; i.e. , enhance groundwater level monitoring. 4. Disseminate information in multiple formats. 5. Investigate centralized water quality database.		
<b>Category</b>	MONITORING/DATA COLLECTION		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	WCD continues to extensively monitor water resources in Washington County. Over 40 streams and 50 lakes were assessed in 2014. Monitoring report available upon request.		

**Grant Activity - WCD Regulations & Ordinances 2014**

<b>Description</b>	<p>The WCD will conduct office and field reviews of WMO, DNR and LGU permit approvals, permits and variance requests. It will provide technical assistance and consultation to Washington County Government departments and programs to ensure compliance with the Phase II NPDES program requirements and assist the Washington County Department of Public Works with developing and implementing new, innovative and cost effective erosion and sediment control practices for County capital projects. WCD will also work with local government units on comprehensive plan updates.</p> <ol style="list-style-type: none"> <li>1. Conduct at least ten compliance checks throughout the County to ensure that projects are constructed according to approved plans.</li> <li>2. Assist the WMOs, LGUs and DNR in investigating and responding to shore land zoning violations and complaints by inspecting the site to ensure that the plans were complied with or that a restoration plan has been submitted and completed.</li> <li>3. Review development proposals within the shore land, St. Croix and mining districts.</li> <li>4. Review environmental assessment worksheets and environmental impact statements.</li> <li>5. Assist the County Plat Commission in reviewing plan and grading permit applications.</li> <li>6. Assist with erosion control planning, mitigation and permitting for County transportation projects.</li> <li>7. Implement WCD requirements of Washington County Groundwater Plan as requested by PHE staff.</li> <li>8. Provide technical and financial assistance to County PW in planning and implementation of conservation practices on county property and ROW.</li> </ol>		
<b>Category</b>	REGULATIONS/ORDINANCES/ENFORCEMENT		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	<p>WCD provides support to County and WMOs to implement local ordinances and regulations. Three EAWs reviewed and comments provided. Provided site plan review support for the Plat Commission. WCD provided technical support to the County to implement the BMPs in their MS4 SWPPP.</p>		

**Grant Activity - WCD Staff Services 2014**

<b>Description</b>	The WCD will provide countywide technical assistance to landowners in applying conservation practices and approved management techniques to reduce water and wind erosion and to reduce sediment and pollution damage to lakes, wetlands, rivers, streams and groundwater. Also supports habitat restoration efforts. <ol style="list-style-type: none"><li>1. Work with willing landowners to reduce erosion and runoff.</li><li>2. Work with willing feedlot operators to develop plans to eliminate feedlot runoff.</li><li>3. Provide Washington County residents technical assistance with resource concerns such as water quality, wetlands, soil loss and other natural resource information.</li><li>4. Work with landowners to install water quality improvement practices.</li><li>5. Work with landowners to enhance habitat and combat invasive species.</li></ol>		
<b>Category</b>	TECHNICAL/ENGINEERING ASSISTANCE		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	Provided initial landowner contact for 8 watersheds cost-share programs. Over 220 site visits conduct and 100 practices designed/installed.		



<b>Description</b>	<p>County-wide water resources efforts are coordinated by two water planners.</p> <p>Major tasks include:</p> <ol style="list-style-type: none"> <li>1. writing an update for the 10 year Groundwater Plan</li> <li>2. administering an abandoned well sealing program and Clean Water Fund abandoned well grant</li> <li>3. working with state and local government on water issues specific to Washington County,</li> <li>4. working with watershed districts on their water management plans, TMDLs, WRAPS</li> <li>5. county wide water planning with LGU's</li> <li>6. working with watersheds and stakeholders through the Water Consortium</li> <li>7. serving the public at large.</li> </ol>		
<b>Category</b>	ADMINISTRATION/COORDINATION		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	<p>Staff accomplished the following:</p> <ol style="list-style-type: none"> <li>1. The county finished the update process for the 10 year groundwater plan (see planning section for more details).</li> <li>2. Worked with landowners to seal three (3) abandoned wells through the 50% cost share well sealing program. (Additional wells were sealed with a Clean Water Fund grant and are reported through that grant)</li> <li>3. Reviewed environmental review documents including Environmental Assessment Worksheets for developments in the county (no comments provided).</li> <li>4. Coordinated a new nitrate testing project with the Minnesota Department of Agriculture to offer free nitrate testing to all private wells in Cottage Grove and Denmark Township.</li> <li>5. Continued working with MDH and the communities of Baytown and West Lakeland Townships on Trichloroethylene (TCE) groundwater contamination - including offering VOC testing for residents.</li> <li>6. Continued attendance as needed at various WMO meetings in the county.</li> <li>7. Developed and implemented a Septic System low interest loan program, becoming a local lender of MDA AgBMP funds, with 11 loans awarded in 2014.</li> <li>8. Participated in quarterly St Croix Basin meetings, and monthly implementation meetings.</li> <li>9. Met with Hennepin County to share and discuss water consortium model and how they might create a similar venture in Hennepin County.</li> <li>10. Met with EQB staff to discuss silica sand mining in Washington County.</li> <li>11. Assisted County Office of Administration in discussions and facilitated session on use of Aquatic Invasive Species (AIS) funds passed through to counties in 2014.</li> </ol>		



**Grant Activity - WCPHE Education/Information 2014**

**Description**

Educating public employees, officials and the citizens of the county are important elements of the WCPHE's activities to protect and conserve groundwater resources. The county will:

1. Continue to assist with the Metro Area Children's Water Festival.
2. Educate public officials about the Groundwater Plan.
3. Educate citizens on current groundwater and surface water resource issues.
4. Distribute copies of general information handouts regarding drinking water and water resources concerns to local units of government and citizens.
5. Continue to hold monthly meetings of the Water Consortium.

**Category**

EDUCATION/INFORMATION

**Start Date**

1-Jan-20

**End Date**

31-Dec-14

**Rates and Hours**

**Actual Results**

**Staff:**

1. Participated in planning and implementation of the Children's Water Festival, and worked at the festival.
2. Collaborated with county departments and East Metro Water Resources Education Program.
3. Continued to monitor and work with MDH on Special Well Construction Areas in the county, and kept residents updated as needed, including answering questions via phone inquiries.
4. Presented groundwater plan and water consortium model at the Minnesota Association of Watershed District (MAWD) summer tour in Stillwater, June 2014.
5. Participated in planning and execution of July 2014 floating workshop on the St Croix river, for elected officials.
6. Organized 10 water consortium meetings including a tour of best management practices (BMPs) for LGUs, watershed organizations, citizens, and state agencies.

**Grant Activity - WCPHE Monitoring and Data Collection 2014**

<b>Description</b>	WCPHE will 1. assist licensed food establishments (non - community, transient wells) in collection of water samples. 2. assist residents and communities with water sampling efforts as requested.		
<b>Category</b>	MONITORING/DATA COLLECTION		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	<p>Staff:</p> <ol style="list-style-type: none"> <li>1. Regularly provided maps and data concerning groundwater resources to citizens and agencies.</li> <li>2. Took approximately 222 water samples for food, beverage and lodging establishments, communicated the results to the establishments, and answered questions as needed.</li> <li>3. Processed 474 water samples for water quality testing through the department's well water testing program for county residents. Staff communicated results to residents and answered questions as needed.</li> <li>4. Took samples to be analyzed for PFCs for 1 resident at their request, as well as 14 samples for VOCs.</li> <li>5. Contracted with the WCD to conduct mail sampling of all residents in Cottage Grove and Denmark Township, utilizing funds made available by the Minnesota Department of Agriculture (results pending in 2015).</li> </ol>		

## Grant Activity - WCPHE Planning 2014

<b>Description</b>	Staff will 1. finish the update process for the 10 year Groundwater Plan. 2. work with LGU's and state agencies to address water planning needs.		
<b>Category</b>	PLANNING AND ASSESSMENT		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	<p>Regarding the update process for the Groundwater Plan, staff:</p> <ol style="list-style-type: none"> <li>1. Compiled and collected comments during public comment period, which was closed into early 2014.</li> <li>2. Presented final review draft and comment responses to county board.</li> <li>3. Submitted final review draft to state agencies for review in June 2014.</li> <li>4. Responded to state agency comments and prepared final draft for BWSR review in August 2014. PAn was approved by BWSR in late August.</li> <li>5. Presented final GW plan for county board approval September 2014. County board adopted plan in September.</li> </ol> <p>Staff participated on Technical Advisory Committee (TAC) for Carnelian Marine St Croix Watershed District's Plan Amendment in April and December.</p> <p>Staff worked with LGUs and state agencies on water supply planning for metro area. This included:</p> <ol style="list-style-type: none"> <li>1. Participation on North and East Metro Groundwater Management Area advisory group.</li> <li>2. Attending Metro Area Water Supply Advisory Committee (MAWSAC) of the Metropolitan Council.</li> </ol> <p>Staff also reviewed and prepared comments for the county board in April 2014, related to water resources and public health, on Metropolitan Council's Thrive MSP 2040 regional planning document.</p>		

## Grant Attachments

Document Name	Document Type	Description
<b>2014 LWM Financial Report</b>	Grant	2014 - Local Water Management - NRBG (Washington County)
<b>2014 Natural Resources Block Grant</b>	Grant Agreement	2014 Natural Resources Block Grant - Washington County
<b>2014 Natural Resources Block Grant executed</b>	Grant Agreement	2014 Natural Resources Block Grant - Washington County





# Grant All-Detail Report

## Shoreland-NRBG 2014

**Grant Title** - 2014 - Shoreland-NRBG (Washington County)

**Grant ID** - P14-5352

**Organization** - Washington County

<b>Grant Awarded Amount</b>	<b>\$2,615.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	\$2,615.00	<b>Grant End Date</b>	12/31/2016
<b>Required Match %</b>	100%	<b>Grant Day To Day Contact</b>	Stephanie Souter

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$2,615.00	\$2,615.00	\$0.00
Total Match Amount	\$6,000.00	\$6,000.00	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$8,615.00</b>	<b>\$8,615.00</b>	<b>\$0.00</b>

*\*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.*

### Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Shoreland Education/Information 2014	Education/Information	Local Fund	2014 Shoreland Match	\$500.00	\$500.00	12/31/2014	Y
Shoreland Monitoring and Data Collection 2014	Monitoring/Data Collection	Local Fund	2014 Shoreland Match	\$1,500.00	\$1,500.00	12/31/2014	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Shoreland Regulations/Ordinances/Enforcement	Regulations/Ordinances/Enforcement	Current State Grant	2014 - Shoreland-NRBG (Washington County)	\$2,615.00	\$2,615.00	12/31/2014	N
Shoreland Regulations/Ordinances/Enforcement	Regulations/Ordinances/Enforcement	Local Fund	2014 Shoreland Match	\$4,000.00	\$4,000.00	12/31/2014	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
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### Indicators Summary

Indicator Name	Total Value	Unit
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### Grant Activity

Grant Activity - Shoreland Education/Information 2014			
Description	Continue to provide information and educational materials to residents as requested. Answer questions and provide handouts on best management practices.		
Category	EDUCATION/INFORMATION		
Start Date	1-Jan-14	End Date	31-Dec-14
Rates and Hours			
Actual Results	Provided residents with information on erosion and sediment control, grading and filling, lake setbacks, road setbacks, lot sizes and impervious surfaces.		

### Grant Activity - Shoreland Monitoring and Data Collection 2014

Description	Monitor projects and collect data on an as needed basis. Collect information on number and type of variance applications and monitor and inspect violations.		
Category	MONITORING/DATA COLLECTION		
Start Date	1-Jan-14	End Date	31-Dec-14
Rates and Hours			
Actual Results	Staff time for monitoring on projects for 27 permits, 9 variances, and 7 violations.		

### Grant Activity - Shoreland Regulations/Ordinances/Enforcement

Description	Continue to process the following zoning activities in the shoreland areas: conditional use permits, variances, on - site septic, subdivision, ordinance violations, ordinance amendments, etc. Also includes equipment, office supplies, mileage payments used to implement program.		
Category	REGULATIONS/ORDINANCES/ENFORCEMENT		
Start Date	1-Jan-14	End Date	31-Dec-14
Rates and Hours			
Actual Results	Enforced the zoning code in the shoreland areas of Washington County, including issuance of 27 permits, 9 variances, 7 violations. There were no platted subdivisions in 2014. As part of permit reviews, staff accrue mileage expenses, and, as part of duties, utilize a variety of equipment and supplies including GIS equipment.		

### Grant Attachments

Document Name	Document Type	Description
<b>2014 Natural Resources Block Grant</b>	Grant Agreement	2014 Natural Resources Block Grant - Washington County
<b>2014 Natural Resources Block Grant executed</b>	Grant Agreement	2014 Natural Resources Block Grant - Washington County
<b>2014 Shoreland Financial Report</b>	Grant	2014 - Shoreland-NRBG (Washington County)



# Grant All-Detail Report

## Septic Treatment Systems Upgrade - NRBG 2014

**Grant Title** - 2014 - Septic Treatment Systems Upgrade - NRBG (Washington County)

**Grant ID** - P14-3585

**Organization** - Washington County

<b>Grant Awarded Amount</b>	<b>\$37,900.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	\$0.00	<b>Grant End Date</b>	12/31/2016
<b>Required Match %</b>	0%	<b>Grant Day To Day Contact</b>	Stephanie Souter

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$37,900.00	\$27,750.00	\$10,150.00
Total Match Amount	\$58,032.95	\$58,032.95	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$95,932.95</b>	<b>\$85,782.95</b>	<b>\$10,150.00</b>

*\*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.*

### Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Washington Conty low income upgrades - financial review	Administration /Coordination	Current State Grant	2014 - Septic Treatment Systems Upgrade - NRBG (Washington C..	\$400.00	\$250.00	12/31/2014	N



Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Washington County low income SSTS upgrades	Subsurface Sewage Treatment Systems	Current State Grant	2014 - Septic Treatment Systems Upgrade - NRBG (Washington C..	\$37,500.00	\$27,500.00	12/2/2014	N
Washington County low income SSTS upgrades	Subsurface Sewage Treatment Systems	Local Fund	Local match from homeowners	\$58,032.95	\$58,032.95	12/2/2014	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
126M - Septic System Improvement	5	1	0.00 COUNT

### Indicators Summary

Indicator Name	Total Value	Unit
<b>BOD 5</b>	1,134.00	LBS/YR
<b>SEDIMENT (TSS)</b>	638.00	TONS/YR
<b>PATHOGENS (E. COLI)</b>	283,800,000,000,000.00	CFU
<b>NITROGEN</b>	118.00	LBS/YR
<b>PHOSPHORUS (EST. REDUCTION)</b>	37.00	LBS/YR

## Grant Activity

### Grant Activity - Washington Conty low income upgrades - financial review

<b>Description</b>	Washington Conty low income upgrades - financial review		
<b>Category</b>	ADMINISTRATION/COORDINATION		
<b>Start Date</b>	1-May-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	Financial review of 5 grant applications, provided by Washington County Housing and Redevelopment Authority (HRA).		

### Grant Activity - Washington County low income SSTS upgrades

<b>Description</b>	Assist low-income property owners with financial assistance in replacing a failed subsurface sewage treatment system.		
<b>Category</b>	SUBSURFACE SEWAGE TREATMENT SYSTEMS		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	<p>County staff refined the SSTS fix up application materials created in 2013, and promoted the program throughout 2014. Grants were awarded on a first come, first serve basis, using the income eligibility requirements. We broke awards into two tiers: low income and very low income.</p> <p>A total of 5 grants were awarded, to replace 5 failing SSTS. SSTS were permitted according to standard county procedures.</p>		

### Activity Action - SSTS replacement #1 Stillwater Township

<b>Practice</b>	126M - Septic System Improvement	<b>Count of Activities</b>	1
<b>Description</b>	SSTS installed per Washington County ordinance and MN Statute.		
<b>Proposed Size / Units</b>	1 COUNT	<b>Lifespan</b>	30 Years
<b>Actual Size/Units</b>	COUNT	<b>Installed Date</b>	11-Aug-14

### Final Indicator for SSTS replacement #1 Stillwater Township

<b>Indicator Name</b>	PATHOGENS (E. COLI)	<b>Value</b>	6.88E+13
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) CFU	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		

Final Indicator for SSTS replacement #1 Stillwater Township			
Indicator Name	BOD 5	Value	403
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	groundwater		
Final Indicator for SSTS replacement #1 Stillwater Township			
Indicator Name	NITROGEN	Value	29
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	groundwater		
Final Indicator for SSTS replacement #1 Stillwater Township			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	10
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	groundwater		
Final Indicator for SSTS replacement #1 Stillwater Township			
Indicator Name	SEDIMENT (TSS)	Value	233
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	groundwater		

Activity Action - SSTS replacement #2 Grant			
Practice	126M - Septic System Improvement	Count of Activities	1
Description	SSTS installed per Washington County ordinance and MN Statute.		
Proposed Size / Units	1 COUNT	Lifespan	30 Years
Actual Size/Units	COUNT	Installed Date	9-Aug-14

Final Indicator for SSTS replacement #2 Grant			
Indicator Name	NITROGEN	Value	23
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	groundwater		
Final Indicator for SSTS replacement #2 Grant			
Indicator Name	SEDIMENT (TSS)	Value	56
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)

<b>Waterbody</b>	groundwater		
<b>Final Indicator for SSTS replacement #2 Grant</b>			
<b>Indicator Name</b>	BOD 5	<b>Value</b>	101
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		
<b>Final Indicator for SSTS replacement #2 Grant</b>			
<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	5
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		
<b>Final Indicator for SSTS replacement #2 Grant</b>			
<b>Indicator Name</b>	PATHOGENS (E. COLI)	<b>Value</b>	6.88E+13
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) CFU	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		

<b>Activity Action - SSTS replacement #3 Grey Cloud Island</b>			
<b>Practice</b>	126M - Septic System Improvement	<b>Count of Activities</b>	1
<b>Description</b>	SSTS installed per Washington County ordinance and MN Statute.		
<b>Proposed Size / Units</b>	1 COUNT	<b>Lifespan</b>	30 Years
<b>Actual Size/Units</b>	COUNT	<b>Installed Date</b>	29-Sep-14
<b>Final Indicator for SSTS replacement #3 Grey Cloud Island</b>			
<b>Indicator Name</b>	BOD 5	<b>Value</b>	403
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		
<b>Final Indicator for SSTS replacement #3 Grey Cloud Island</b>			
<b>Indicator Name</b>	NITROGEN	<b>Value</b>	14
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		
<b>Final Indicator for SSTS replacement #3 Grey Cloud Island</b>			
<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	223

<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		
<b>Final Indicator for SSTS replacement #3 Grey Cloud Island</b>			
<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	10
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		
<b>Final Indicator for SSTS replacement #3 Grey Cloud Island</b>			
<b>Indicator Name</b>	PATHOGENS (E. COLI)	<b>Value</b>	6.88E+13
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) CFU	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		

<b>Activity Action - SSTS replacement #4 Afton</b>			
<b>Practice</b>	126M - Septic System Improvement	<b>Count of Activities</b>	1
<b>Description</b>	SSTS installed per Washington County ordinance and MN Statute.		
<b>Proposed Size / Units</b>	1 COUNT	<b>Lifespan</b>	30 Years
<b>Actual Size/Units</b>	COUNT	<b>Installed Date</b>	28-Oct-14
<b>Final Indicator for SSTS replacement #4 Afton</b>			
<b>Indicator Name</b>	NITROGEN	<b>Value</b>	29
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		
<b>Final Indicator for SSTS replacement #4 Afton</b>			
<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	6
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		
<b>Final Indicator for SSTS replacement #4 Afton</b>			
<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	70
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		

**Final Indicator for SSTS replacement #4 Afton**

<b>Indicator Name</b>	BOD 5	<b>Value</b>	126
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)

**Waterbody** groundwater

**Final Indicator for SSTS replacement #4 Afton**

<b>Indicator Name</b>	PATHOGENS (E. COLI)	<b>Value</b>	4.30E+13
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) CFU	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)

**Waterbody** groundwater

**Activity Action - SSTS replacement #5 Lake Elmo**

<b>Practice</b>	126M - Septic System Improvement	<b>Count of Activities</b>	1
<b>Description</b>	SSTS installed per Washington County ordinance and MN Statute.		
<b>Proposed Size / Units</b>	1 COUNT	<b>Lifespan</b>	30 Years
<b>Actual Size/Units</b>	COUNT	<b>Installed Date</b>	17-Oct-14

**Final Indicator for SSTS replacement #5 Lake Elmo**

<b>Indicator Name</b>	NITROGEN	<b>Value</b>	23
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)

**Waterbody** groundwater

**Final Indicator for SSTS replacement #5 Lake Elmo**

<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	6
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)

**Waterbody** groundwater

**Final Indicator for SSTS replacement #5 Lake Elmo**

<b>Indicator Name</b>	PATHOGENS (E. COLI)	<b>Value</b>	3.44E+13
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) CFU	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)

**Waterbody** groundwater

**Final Indicator for SSTS replacement #5 Lake Elmo**

<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	56
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)

<b>Waterbody</b>	groundwater		
<b>Final Indicator for SSTS replacement #5 Lake Elmo</b>			
<b>Indicator Name</b>	BOD 5	<b>Value</b>	101
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	groundwater		

### Grant Attachments

Document Name	Document Type	Description
<b>2014 Natural Resources Block Grant</b>	Grant Agreement	2014 Natural Resources Block Grant - Washington County
<b>2014 Natural Resources Block Grant executed</b>	Grant Agreement	2014 Natural Resources Block Grant - Washington County
<b>2014 SSTS Upgrade_Financial Report</b>	Grant	2014 - Septic Treatment Systems Upgrade - NRBG (Washington County)
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/14/2015



# Grant All-Detail Report WCA-NRBG 2014

**Grant Title** - 2014 - Wetland Conseration Act - NRBG (Washington County)

**Grant ID** - P14-3776

**Organization** - Washington County

<b>Grant Awarded Amount</b>	<b>\$41,551.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	\$41,551.00	<b>Grant End Date</b>	12/31/2016
<b>Required Match %</b>	100%	<b>Grant Day To Day Contact</b>	Stephanie Souter

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$41,551.00	\$41,551.00	\$0.00
Total Match Amount	\$51,000.00	\$54,560.00	\$-3,560.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$92,551.00</b>	<b>\$96,111.00</b>	<b>\$-3,560.00</b>

*\*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.*

### Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
WCA Administration Countywide 2014	Administration /Coordination	Current State Grant	2014 - Wetland Conseration Act - NRBG (Washington County)	\$36,051.00	\$36,051.00	12/31/2014	N
WCA Administration Countywide 2014	Administration /Coordination	Local Fund	2014 WCA In Kind Match	\$10,000.00	\$13,530.00	12/31/2014	Y



Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
WCA Administration Countywide 2014	Administration /Coordination	Local Fund	2014 WCA WCD Match	\$23,000.00	\$23,030.00	12/31/2014	Y
WCA Education/Information 2014	Education/Information	Current State Grant	2014 - Wetland Conseration Act - NRBG (Washington County)	\$4,000.00	\$4,000.00	12/31/2014	N
WCA Inventory/Mapping 2014	Inventory/Mapping	Current State Grant	2014 - Wetland Conseration Act - NRBG (Washington County)	\$1,500.00	\$1,500.00	12/31/2014	N
WCA Technical Staff Services to County 2014	Technical/Engineering Assistance	Local Fund	2014 County Levy Match	\$18,000.00	\$18,000.00	12/31/2014	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
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### Indicators Summary

Indicator Name	Total Value	Unit
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## Grant Activity

### Grant Activity - WCA Administration Countywide 2014

<b>Description</b>	The WCD is the principle implementing agency for the Wetland Conservation Act and serves as a clearinghouse for information. The WCD provides: 1) information to LGU's, 2) Recordkeeping for WCA, 3) program coordination throughout the county, and 4) technical assistance through TEP membership, enforcement, and permit application review.		
<b>Category</b>	ADMINISTRATION/COORDINATION		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	Participated in numerous Technical Evaluation Panel meetings to review and evaluate approximately 81 wetland applications. Provided comments and feedback to both LGU's and applicants. Provided general wetland assistance to at least 32 landowners and several local government units. Assisted LGU's with WCA violations. Continued county-wide WCA application tracking. Fulfilled approximately 5 requests for historic aerial imagery. Met as part of the WCA Technical Team to provide input for the next revision of the WCA.		

### Grant Activity - WCA Education/Information 2014

<b>Description</b>	Assist landowners and community groups with questions about wetlands, WCA, and associated concerns.		
<b>Category</b>	EDUCATION/INFORMATION		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	Assisted multiple landowners on general wetland questions and WCA regulation requirements for projects. Total landowner contacts numbered at least 32. Performed 12 site visits whereby partial wetland boundaries were flagged for approximating setbacks, non-wetland determinations were made for portions of a property in proximity to proposed projects, or general wetland information was discussed.		
	Prepared and presented WCA-application presentation at the 2014 BWSR Academy.		

### Grant Activity - WCA Inventory/Mapping 2014

<b>Description</b>	The WCD will document, monitor, and inventory the wetland mitigation sites in the County. The WCD is working to track the locations of applicable LGU decisions such as wetland delineations, exemptions, and no-losses.		
<b>Category</b>	INVENTORY/MAPPING		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	GIS mapping for all WCA-related decisions in the County was continued. Each WCA decision type is a feature class within a geodatabase. Previous replacement plan information was integrated into the new system. Data entry will be ongoing. Long term goal is to have a working and searchable database for all WCA-related activities in county.		

### Grant Activity - WCA Technical Staff Services to County 2014

<b>Description</b>	WCA Assistance to county departments and technical assistance to LGU's.		
<b>Category</b>	TECHNICAL/ENGINEERING ASSISTANCE		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	Assisted County with WCA permitting and planning for a project in Lake Elmo Park Reserve. Assistance included portions of delineation and reporting/application. Reviewed two road projects (Manning Ave and CSAH4) as part of preapplication meetings; also conducted an onsite review of CSAH4. Provided WCA technical assistance related to the Public Works facility renovations. Assisted LGUs throughout county with general WCA related questions and project review, when necessary. Assisted LGU's with approximately 8 enforcement cases. Submitted annual WCA reports for 13 LGU's.		

### Grant Attachments

Document Name	Document Type	Description
<b>14 WCA Annual Reporting Form</b>	Grant	2014 - Wetland Conseration Act - NRBG (Washington County)
<b>2014 Natural Resources Block Grant</b>	Grant Agreement	2014 Natural Resources Block Grant - Washington County
<b>2014 Natural Resources Block Grant executed</b>	Grant Agreement	2014 Natural Resources Block Grant - Washington County
<b>2014 WCA Financial Report</b>	Grant	2014 - Wetland Conseration Act - NRBG (Washington County)



## Grant All-Detail Report SSTS-NRBG 2014

**Grant Title** - 2014 - Septic Treatment Systems - NRBG (Washington County)

**Grant ID** - P14-7336

**Organization** - Washington County

<b>Grant Awarded Amount</b>	<b>\$20,000.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	<b>\$0.00</b>	<b>Grant End Date</b>	12/31/2016
<b>Required Match %</b>	<b>0%</b>	<b>Grant Day To Day Contact</b>	Stephanie Souter

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$20,000.00	\$20,000.00	\$0.00
Total Match Amount	\$231,450.00	\$231,450.00	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$251,450.00</b>	<b>\$251,450.00</b>	<b>\$0.00</b>

*\*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.*

### Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
SSTS Admin/Coordination 2014	Administration /Coordination	Current State Grant	2014 - Septic Treatment Systems - NRBG (Washington County)	\$20,000.00	\$20,000.00	12/31/2014	N
SSTS Admin/Coordination 2014	Administration /Coordination	Local Fund	2014 SSTS Match	\$77,250.00	\$77,250.00	12/31/2014	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
SSTS Education/Information 2014	Education/Information	Local Fund	2014 SSTS Match	\$19,700.00	\$19,700.00	12/31/2014	Y
SSTS Monitoring/Data Collection 2014	Monitoring/Data Collection	Local Fund	2014 SSTS Match	\$25,700.00	\$25,700.00	12/31/2014	Y
SSTS Regulations/Ordinance/Enforcement 2014	Regulations/Ordinances/Enforcement	Local Fund	2014 SSTS Match	\$108,800.00	\$108,800.00	12/31/2014	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
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### Indicators Summary

Indicator Name	Total Value	Unit
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## Grant Activity

Grant Activity - SSTS Admin/Coordination 2014			
Description	The WCPHE will administer the SSTS program according to the county SSTS ordinance, including tracking of septic maintenance (pumping), soil reviews, inspections and responding to complaints. The WCPHE will assist the MPCA and other local agencies in the implementation of a maintenance (pumping) program.		
Category	ADMINISTRATION/COORDINATION		
Start Date	1-Jan-14	End Date	31-Dec-14
Rates and Hours			
Actual Results	Washington County successfully administered the SSTS program for the majority of the County, either by Contract or by jurisdiction as stated in Minnesota Statute 115.55 and 115.56, and Minnesota Rules, Chapter 7080-7083. Washington County continued to participate in the Minnesota Pollution Control Agency (MPCA) SSTS Advisory Committee to suggest language and provide input to the rulemaking process, and overall administration of the SSTS program. At the request of the MPCA, the county provided information on enforcement issues.		

**Grant Activity - SSTS Education/Information 2014**

<p><b>Description</b></p>	<p>The WCPHE will integrate educational efforts about care and maintenance of SSTS with environmental education activities. The use of printed materials, such as the U of M extension service materials on proper care of SSTS systems will be used. Distribute printed materials to all septic system permit recipients. Pumping reminders sent out on a quarterly basis.</p>		
<p><b>Category</b></p>	<p>EDUCATION/INFORMATION</p>		
<p><b>Start Date</b></p>	<p>1-Jan-14</p>	<p><b>End Date</b></p>	<p>31-Dec-14</p>
<p><b>Rates and Hours</b></p>	<p></p>		
<p><b>Actual Results</b></p>	<p>The publication, "Septic System Owner's Guide" written by the University of Minnesota Extension Onsite Sewage Treatment Program (OSTP), was distributed with 276 permits issued by the county in 2014.</p> <p>Pumping reminders were sent out to residents, as their tanks were coming due for pumping, on a quarterly basis.</p> <p>The county successfully launched a SSTS low interest loan program, by becoming a lender in the Minnesota Department of Agriculture's (MDA) AgBMP loan program. As such, a large amount of outreach was done on the SSTS loans, including news releases, posting to city websites and newsletters, and an article in the Staying in Touch newsletter, which goes out to all county residents. The SIT article also highlighted the importance of proper maintenance.</p>		

## Grant Activity - SSTS Monitoring/Data Collection 2014

### Description

In 1999, WCPHE began collecting pumping data on all existing SSTS systems in the unincorporated areas of the county. In addition, those communities for which the county provides septic inspection and permitting services is included in the data management program. This comprehensive data system was completed in 2000 and identified approximately 15,700 existing systems. Continue to collect data from private septic pumpers needed for maintenance monitoring. Continue to build database by adding new permits. Map data daily.

### Category

MONITORING/DATA COLLECTION

### Start Date

1-Jan-14

### End Date

31-Dec-14

### Rates and Hours

### Actual Results

Reminders were sent out quarterly to SSTS owners in the county that were due for maintenance of their system. Maintenance of 3,526 septic systems was reported to the county in 2014, as of December 31, 2014. Staff logged permits into the database as they were submitted. Staff also mapped permit, order and pumping data on a daily basis.

Staff identified and hired a vendor, RTVision, to create a new SSTS database that will house permit, pumping, mapping and all other data in one central, GIS-based system. Rollout of new database is expected in 2015.



## Grant Activity - SSTS Regulations/Ordinance/Enforcement 2014

<b>Description</b>	The WCPHE will implement changes to the County SSTS Ordinance due to changes to MN Rule 7080, in 2011.		
	The County will continue to implement current adopted ordinance, including issuing permits and ordering replacements of failed systems.		
<b>Category</b>	REGULATIONS/ORDINANCES/ENFORCEMENT		
<b>Start Date</b>	1-Jan-14	<b>End Date</b>	31-Dec-14
<b>Rates and Hours</b>			
<b>Actual Results</b>	<p>Washington County adopted the Washington County Development Code, Chapter Four, Subsurface Sewage Treatment Regulations (Washington County Ordinance #179) on September 8, 2009, and it took effect on September 23, 2009. The Ordinance adopted the proposed rules and regulations in Minnesota Rules, Chapter 7080-7083, at that time. The local communities adopted the county ordinance in 2010. The Department continues to represent Metro Counties on the Minnesota Pollution Control Agency's SSTS Advisory Committee, to provide input on rulemaking and overall SSTS coordination.</p> <p>Staff began work on an ordinance revision in 2013, to meet the most recent changes to 7080, from 2011.</p> <p>Staff revision and legal review of the new proposed SSTS ordinance occurred in the fall of 2014. In addition, staff conducted two stakeholder meetings, one with SSTS contractors, another with communities, to discuss potential ordinance changes and get feedback that was incorporated into the fall review. Board review, public hearing and board adoption is anticipated for early 2015.</p> <p>A total of 276 permits were issued in 2014, and 99 systems were ordered to be replaced. A total of 51 replacements occurred as a result of orders.</p>		

## Grant Attachments

Document Name	Document Type	Description
<b>2014 Natural Resources Block Grant</b>	Grant Agreement	2014 Natural Resources Block Grant - Washington County
<b>2014 Natural Resources Block Grant executed</b>	Grant Agreement	2014 Natural Resources Block Grant - Washington County
<b>2014 SSTS base_Financial report</b>	Grant	2014 - Septic Treatment Systems - NRBG (Washington County)