

## HORSESHOE LAKE MANAGEMENT COMMITTEE AGENDA

5:00 P.M. - THURSDAY, FEBRUARY 13, 2014

**\*\* NEW LOCATION \*\***

**Woodland Police Station - Council Chambers**

**200 East Scott Avenue**

**Woodland, WA 98674**

- I. Call to Order
- II. **Minutes for November 14, 2013** (December 12, 2013 and January 9, 2014 Cancelled)
- III. Continued Business
  - A. Pump & Lake Update
    - **Pump Maintenance Log**
    - **Lake/River Tracking Report**
  - B. Water Quality Testing
  - C. Budget
  - D. Goals & Priorities
    - **Grant Application - DOE Water Quality**
- IV. New Business
- V. Other
- VI. Adjourn - Next Meeting March 13, 2014 at 5:00 P.M.

**CITY OF WOODLAND  
HORSESHOE LAKE COMMITTEE MINUTES  
NOVEMBER 14, 2013**

The regular meeting of the Horseshoe Lake Management Committee was held on the above date, at the Woodland City Hall, 100 Davidson Avenue Street, Woodland, WA 98674.

Chairman Tom Golik called the meeting to order at approximately 5:00 p.m. Roll call found the following:

**COMMITTEE MEMBERS:**

Tom Golik, Chairman  
Walt Church  
Mike Curry  
Bill Dunlap  
Terry Jones  
Francis Patnode  
Pat Rychel  
Neil Van Horn

**MAYOR/COUNCIL/OTHER:**

Scott Perry, Councilmember  
Stacie Kelsey, Dept. of Fish & Wildlife

**STAFF:**

Bart Stepp, Public Works Director

**MINUTES**

The September 12, 2013 minutes were approved as corrected. The October meeting was cancelled.

**CONTINUED BUSINESS**

Open discussion ensued regarding the Horseshoe Lake pump and maintenance, operation of the Lake valve, water quality testing, and the 2014 pending budget. It was determined that Lake testing will be suspended until spring.

**NEW BUSINESS**

Discussion was held regarding the Open Public Meetings Act (OPMA), no action was taken.

**OTHER**

Bart Stepp, Public Works Director, responded to questions. Discussion ensued.

**ADJOURNMENT**

The meeting was adjourned at approximately 6:00 p.m. The next regular meeting will be held Thursday, December 12, 2013, at 5:00 p.m. at the Woodland City Hall, 100 Davidson Avenue, Woodland WA 98674.

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Tom Golik - Chairman

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February 13, 2014  
Date



## HORSESHOE LAKE TRACKING

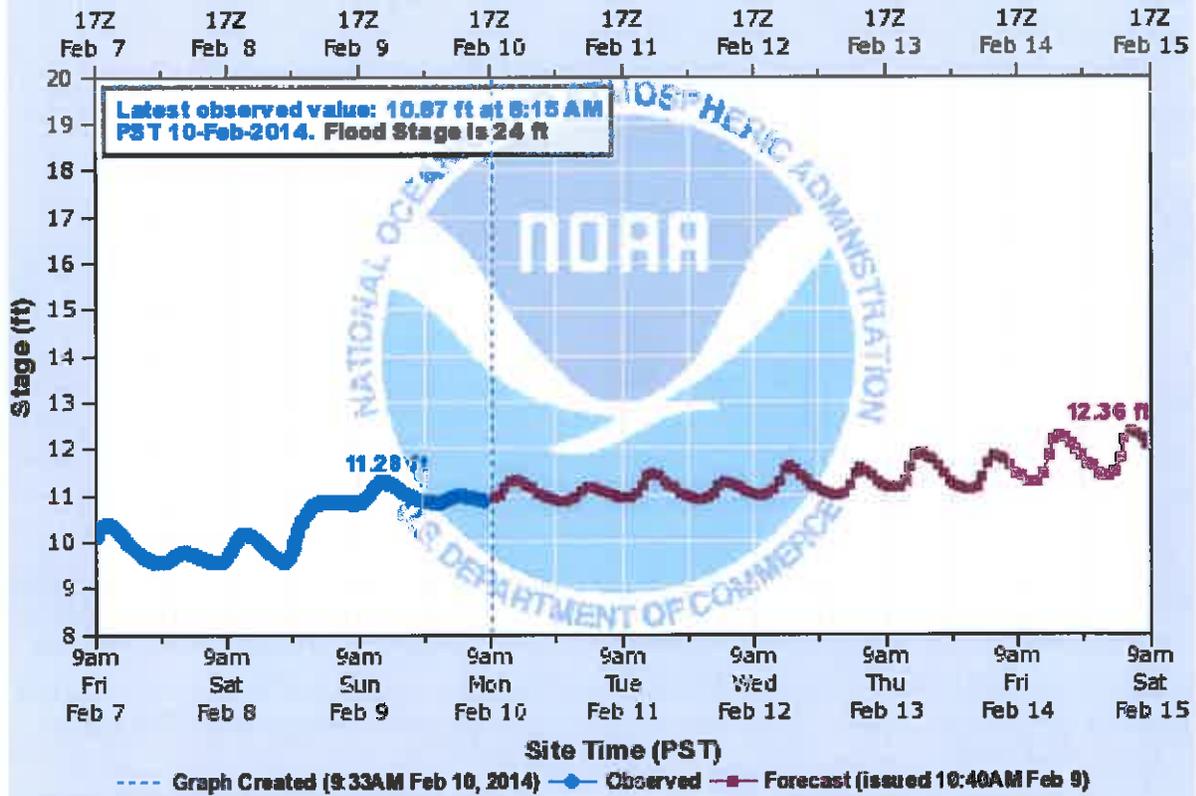
Date	River Level 8:00 AM	Days High Temp	Lake			Valve Status (Turns)	Comments
			Level	Temp	Visibility		
1-Dec-13	Not Working	55.7°	Down 23"	48°	9'	Closed	
2-Dec-13	Not Working	47.6°				Closed	
3-Dec-13	13.45	42.9°				Closed	
4-Dec-13		38.6°				Closed	
5-Dec-13		31.5°				Closed	
6-Dec-13	11.05	31.3°				Closed	
7-Dec-13	10.45	32.2°	Down 20"	42°	10'	Closed	Low 17°, brrrrr!
8-Dec-13	11.21	27.6°				Closed	Low 13.8°, frozen across from Walt's to Lake Ave.
9-Dec-13	11.04	28.2°				Closed	Low 15.7°
10-Dec-13		32.9°				Closed	Low 27.6°
11-Dec-13	9.34	34.6°				Closed	Low 28.1°, warming up!
12-Dec-13	9.48	40.2°				Closed	
13-Dec-13	9.32	44.2°				Closed	
14-Dec-13	9.36	41.6°				Closed	
15-Dec-13	9.33	43.2°	Down 18"	42°	10'	Closed	Visibility is steady at 10
16-Dec-13	9.39	43.1°				Closed	
17-Dec-13	8.55	39.5°				Closed	
18-Dec-13	8.31	41.6°				Closed	
19-Dec-13	8.44	36.6°				Closed	
20-Dec-13	8.38	38.2°				Closed	
21-Dec-13	8.68	48.0°				Closed	
22-Dec-13	8.64	49.6°	Down 16"	44°	10-11'	Closed	
23-Dec-13	8.65	51.0°				Closed	
24-Dec-13		39.5°				Closed	
25-Dec-13		38.9°				Closed	Merry Christmas!
26-Dec-13		34.9°				Closed	
27-Dec-13		37.6°				Closed	
28-Dec-13	9.14	45.4°				Closed	
29-Dec-13	9.05	40.6°	Down 16"	42°	10'	Closed	
30-Dec-13	9.09	42.1°				Closed	
31-Dec-13	9.12	46.1°				Closed	
1-Jan-14		43.2°	Down 8"	45°	10'	Closed	
2-Jan-14		48.2°				Closed	
3-Jan-14		44.3°				Closed	
4-Jan-14		44.5°				Closed	
5-Jan-14	9.18	45.7°				Closed	
6-Jan-14	9.13	42.9°				Closed	
7-Jan-14	10.17	44.8°				Closed	
8-Jan-14		50.8°				Closed	
9-Jan-14		47.3°				Closed	
10-Jan-14	12.30	55.1°				Closed	
11-Jan-14	12.25	56.3°				Closed	
12-Jan-14	11.79	49.6°				Closed	
13-Jan-14	12.41	52.3°	Down 10"	44°	10-11'	Closed	
14-Jan-14	15.86	47.4°				Closed	
15-Jan-14	13.94	43.5°				Closed	
16-Jan-14	12.43	42.9°				Closed	

### HORSESHOE LAKE TRACKING

Date	River Level 8:00 AM	Days High Temp	Lake			Valve Status (Turns)	Comments
			Level	Temp	Visibility		
17-Jan-14		37.9°				Closed	
18-Jan-14	10.97	48.0°				Closed	
19-Jan-14		46.8°				Closed	
20-Jan-14		50.2°				Closed	
21-Jan-14		45.7°	Down 10"	44°	10'	Closed	
22-Jan-14		48.2°				Closed	
23-Jan-14		56.2°				Closed	
24-Jan-14		52.2°				Closed	
25-Jan-14		48.0°	Down 10"	43°	10'	Closed	
26-Jan-14	9.81	48.6°				Closed	
27-Jan-14	9.77	41.1°				Closed	
28-Jan-14	10.81	43.1°				Closed	
29-Jan-14	11.73	51.7°				Closed	
30-Jan-14	12.12	47.4°				Closed	
31-Jan-14	11.05	46.0°				Closed	
1-Feb-14	12.16	49.8°				Closed	
2-Feb-14	10.67	44.9°				Closed	
3-Feb-14	10.62	43.8°				Closed	
4-Feb-14	10.25	39.1°				Closed	
5-Feb-14	10.02	29.5°				Closed	
6-Feb-14	9.69	23.5°				Closed	
7-Feb-14	9.72	30.0°				Closed	
8-Feb-14	9.71	32.7°				Closed	
9-Feb-14	10.60	33.4°				Closed	
10-Feb-14							

# LEWIS RIVER AT WOODLAND

Universal Time (UTC)



LRWW1(plotting HGIRP) "Gage 0" Datum: 0'

**Washington State Department of Ecology - SFY2015 Water Quality Combined Funding Program  
List of Applications**

Application Tracking Number	Applicant Organization	Project Title	Ecology Region	Project Category	Funding Requested	GPR Requested	Hardship Requested	PreConstruction Requested
WQC-2015-AberPW-00015	Aberdeen city of - Public Works	City of Aberdeen WWTP outfall replacement	Southwest	Wastewater Facility	\$1,919,000.00		Yes	Yes
WQC-2015-Adopta-00115	Adopt A Stream Foundation	Sorgenfrei Creek Riparian Restoration	Northwest	Nonpoint Activity	\$86,579.00			
WQC-2015-Adopta-00116	Adopt A Stream Foundation	Catherine Creek Riparain Buffer Enhancement	Northwest	Nonpoint Activity	\$196,893.56			
WQC-2015-Adopta-00117	Adopt A Stream Foundation	Northpointe Park Riparian Enhancement Project	Northwest	Nonpoint Activity	\$160,015.21			
WQC-2015-AmFaTr-00153	American Farmland Trust	Farmers for Clean Water	Northwest	Nonpoint Activity	\$250,000.00			
WQC-2015-BentCD-00102	Benton Conservation District	Groundwater Nitrate Characterization, Monitoring and Stakeholder Engagement	Central	Nonpoint Activity	\$250,000.00			
WQC-2015-ChehPW-00007	Chehalis city of - Public Works Department	Chehalis Basin 1022 I&I Rehabilitation Project	Southwest	Wastewater Facility	\$1,410,000.00		Yes	Yes
WQC-2015-ChCoNR-00184	Chelan County - Natural Resource Department	Wenatchee River Phosphorus Reduction Evaluation	Central	Nonpoint Activity	\$70,000.00			
WQC-2015-Concre-00018	Concrete town of	Town of Concrete Wastewater Treatment Plant Loans-Refinance	Northwest	Wastewater Facility	\$2,916,946.56			
WQC-2015-Concre-00170	Concrete town of	2014 Town of Concrete Comprehensive Sewer and WWF Plan Update	Northwest	Wastewater Facility	\$100,000.00		Yes	Yes
WQC-2015-Concre-00181	Concrete town of	2015 Sanitary Sewer Infiltration and Inflow Repair Project	Northwest	Wastewater Facility	\$100,000.00		Yes	
WQC-2015-CwCoHH-00129	Cowlitz County - Health and Human Services Department	Water Quality Testing & Improvement at Two Cowlitz County Lakes	Southwest	Nonpoint Activity	\$107,270.67			
WQC-2015-DeePar-00011	Deer Park city of	Wastewater Storage Lagoons #1, #2 and #3 Construction Upgrade	Eastern	Wastewater Facility	\$10,693,570.00	Yes	Yes	
WQC-2015-EphrPW-00095	Ephrata city of - Public Works Department	City of Ephrata General Sewer Plan/Wastewater Facility Plan	Eastern	Wastewater Facility	\$120,000.00			Yes
WQC-2015-FerrCD-00019	Ferry Conservation District	Water Quality In Ferry County	Eastern	Nonpoint Activity	\$250,000.00			
WQC-2015-FoCrCD-00182	Foster Creek Conservation District	Deep Creek Restoration	Central	Nonpoint Activity	\$250,000.00			
WQC-2015-GHCoPS-00058	Grays Harbor County - Public Services Department	Illahee/Oyehut Sewer Collection System	Southwest	Wastewater Facility	\$2,984,000.00		Yes	Yes
WQC-2015-Ilwaco-00052	Ilwaco city of	Sahalee Subdivislon Sewer System Improvement	Southwest	Wastewater Facility	\$2,199,280.00		Yes	
WQC-2015-Ilwaco-00101	Ilwaco city of	City of Ilwaco Wastewater Debt Refinance	Southwest	Wastewater Facility	\$302,000.00		Yes	
WQC-2015-IsCoPH*-00070	Island County - Public Health Department	On-Site Sewage System Financial Assistance Program	Northwest	On-Site Sewage System	\$500,000.00			
WQC-2015-JeffCPH-00195	Jefferson County Public Health	Hood Canal Priority Basins	Southwest	Nonpoint Activity	\$307,948.29			
WQC-2015-KCoNRP-00001	King County - Natural Resources and Parks Department	Fremont Siphon Replacement (Construction Phase)	Northwest	Wastewater Facility	\$29,459,059.00			
WQC-2015-KCoNRP-00002	King County - Natural Resources and Parks Department	Barton CSO Beach Project (Construction Phase)	Northwest	Wastewater Facility	\$9,167,466.00	Yes		
WQC-2015-KCoNRP-00003	King County - Natural Resources and Parks Department	Murray CSO (Construction Phase)	Northwest	Wastewater Facility	\$29,124,256.00			
WQC-2015-KCoNRP-00004	King County - Natural Resources and Parks Department	North Beach CSO (Construction Phase)	Northwest	Wastewater Facility	\$12,961,250.00			

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WQC-2015-KCoNRP-00005	King County - Natural Resources and Parks Department	South Magnolia CSO (Construction Phase)	Northwest	Wastewater Facility	\$27,717,058.00			
WQC-2015-KiCoPW-00048	Kitsap County - Public Works	Kingston Wastewater Treatment Plant Reclaimed Water Facilities	Northwest	Wastewater Facility	\$100,000.00			
WQC-2015-KitPHD-00012	Kitsap Public Health District	Directed PIC for Burley and Lofall Creek Watersheds	Northwest	Nonpoint Activity	\$317,104.69			
WQC-2015-KitPHD-00157	Kitsap Public Health District	Regional Clean Water Revolving Loan Program	Northwest	On-Site Sewage System	\$1,495,000.00			
WQC-2015-LkStSD-00148	Lake Stevens Sewer District	Decommission Former LSSD WWTP Site: Phase 2A, Biosolids Removal	Northwest	Wastewater Facility	\$4,025,000.00			
WQC-2015-LaHaUD-00150	Lakehaven Utility District	Lakota WWTP Digester Equipment Upgrade	Northwest	Wastewater Facility	\$5,000,000.00			
WQC-2015-LeavPW-00029	Leavenworth city of - Public Works	Leavenworth Regional Storm Water Quality Management Plan	Central	Nonpoint Activity	\$150,000.00			
WQC-2015-LeCoCD-00024	Lewis County Conservation District	Upper Chehalis Ag-pollution Reduction Education	Southwest	Nonpoint Activity	\$103,650.00			
WQC-2015-Lind-00122	Lind town of	Protecting Lind Coulee with Innovative and Neighborly Stormwater Solutions	Eastern	Stormwater Activity	\$22,013.00			Yes
WQC-2015-LongPW-00179	Longview city of - Public Works Department	Hudson, Douglas & 33 Ave Pump Station Improvements	Southwest	Wastewater Facility	\$5,400,000.00			
WQC-2015-LCEP-00086	Lower Columbia Estuary Partnership	East Fork Lewis River La Center Bottoms Riparian Restoration Project	Southwest	Nonpoint Activity	\$249,070.00			
WQC-2015-LCFRB-00132	Lower Columbia Fish Recovery Board	Lower Columbia Water Quality and Habitat Status and Trends Monitoring Pilot	Southwest	Stormwater Activity	\$428,000.00			
WQC-2015-LIBC-00098	Lummi Indian Business Council	Smuggler's Slough Restoration Project	Northwest	Nonpoint Activity	\$305,292.00			
WQC-2015-MetFal-00112	Metaline Falls town of	Sullivan Creek Protection Project: Metaline Falls Wastewater Upgrades	Eastern	Wastewater Facility	\$246,920.00		Yes	Yes
WQC-2015-MSRF-00104	Methow Salmon Recovery Foundation	Methow Water Quality Restoration and Monitoring Project	Central	Nonpoint Activity	\$246,000.00			
WQC-2015-MCFEG-00072	Mid-Columbia Fisheries Enhancement Group	Ellensburg Area Riparian Enhancement	Central	Nonpoint Activity	\$142,217.00			
WQC-2015-Morton-00026	Morton city of	Morton Wastewater Treatment System Improvements	Southwest	Wastewater Facility	\$783,000.00			Yes
WQC-2015-Morton-00053	Morton city of	Morton Collection System Improvements	Southwest	Wastewater Facility	\$1,162,900.00		Yes	Yes
WQC-2015-MukiWD-00056	Mukilteo Water and Wastewater District	MWWD WWTF Design: Secondary Clarifier, Splitter Box, Aerobic Digester	Northwest	Wastewater Facility	\$825,000.00	Yes		
WQC-2015-NisqIT-00051	Nisqually Indian Tribe	Ohop Phase III Riparian Revegetation Project	Southwest	Nonpoint Activity	\$59,768.00			
WQC-2015-OakHar-00021	Oak Harbor city of	City of Oak Harbor Wastewater Treatment Plant	Northwest	Wastewater Facility	\$8,260,000.00		Yes	Yes
WQC-2015-OakHar-00110	Oak Harbor city of	City of Oak Harbor Wastewater Outfall Project	Northwest	Wastewater Facility	\$3,200,000.00		Yes	Yes
WQC-2015-Okanog-00041	Okanogan city of	Wastewater Treatment Facility Headworks Improvements	Central	Wastewater Facility	\$660,000.00			
WQC-2015-OkanCD-00009	Okanogan Conservation District	Okanogan Water Quality BMPs Project	Central	Nonpoint Activity	\$248,019.00			
WQC-2015-PaRoCD-00103	Palouse Rock Lake Conservation District	Rock Lake and Palouse BMP Direct Seed Partnership	Eastern	Nonpoint Activity	\$427,000.00			

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WQC-2015-PierCD-00197	Pierce Conservation District	WRIA 10 (Puyallup River) Water Quality Revolving Fund Feasibility Study	Northwest	Stormwater Activity	\$41,353.76			
WQC-2015-PorAngPW-00175	Port Angeles city of - Public Works	Port Angeles CSO Phase 2	Southwest	Wastewater Facility	\$12,000,000.00			
WQC-2015-PoGalT-00062	Port Gamble S'Klallam Indian Tribe	Port Gamble S'Klallam Tribe Membrane BioReactor WWTP (MBR) Design	Northwest	Wastewater Facility	\$1,446,350.00			Yes
WQC-2015-PoGalT-00065	Port Gamble S'Klallam Indian Tribe	Sewer Lift Station and Force Main from RGF to MBR WWTP Site: Design & Const	Northwest	Wastewater Facility	\$2,180,000.00		Yes	
WQC-2015-PoGalT-00075	Port Gamble S'Klallam Indian Tribe	Port Gamble Pollution Identification, Correction & Restoration Program	Northwest	Nonpoint Activity	\$250,000.00			
WQC-2015-PoOrPW-00079	Port Orchard city of - Public Works Department	SR 166 Milepost 2.54 Estuary Restoration Design & Permitting	Northwest	Stormwater Activity	\$250,000.00	Yes		
WQC-2015-PoulPW-00138	Poulsbo city of - Public Works Department	City of Poulsbo TMDL Implementation Plan	Northwest	Nonpoint Activity	\$198,700.00			
WQC-2015-Rivers-00194	Riverside town of	Town of Riverside Wastewater Improvements	Central	Wastewater Facility	\$500,000.00		Yes	Yes
WQC-2015-Ruston-00060	Ruston city of	City of Ruston Stormwater Management Plan	Southwest	Stormwater Activity	\$72,375.00			
WQC-2015-SacWSD-00073	Sacheen Lake Water and Sewer District	Sacheen Lake Wastewater Collection and Treatment Project	Eastern	Wastewater Facility	\$11,000,000.00	Yes	Yes	
WQC-2015-SamIWd-00076	Samish Water District	Samish Water District - Lake Samish Pump Station No. 4 Rebuild	Northwest	Wastewater Facility	\$835,593.00			
WQC-2015-SequPW-00008	Sequim city of - Public Works Department	STORMWATER AS A RESOURCE: Sequim Stormwater Management Plan and Program	Southwest	Stormwater Activity	\$249,964.00			
WQC-2015-SequPW-00131	Sequim city of - Public Works Department	City of Sequim Water Reuse Facility Aerobic Digester Aeration Improvments	Southwest	Wastewater Facility	\$912,000.00	Yes		
WQC-2015-ShelPW-00077	Shelton city of - Public Works Department	City of Shelton Basin 3 Sewer Rehabilitation Project	Southwest	Wastewater Facility	\$6,347,080.00		Yes	
WQC-2015-SkCoPD-00130	Skagit County - Planning and Development Services	Skagit County Non-point Repair Fund and Edison LOSS Green Upgrades	Northwest	Nonpoint Activity	\$1,000,000.00	Yes		
WQC-2015-SkCoPW-00034	Skagit County - Public Works Department	Trumpeter Creek Riparian and Channel Restoration	Northwest	Nonpoint Activity	\$248,662.50			
WQC-2015-SFEG-00084	Skagit Fisheries Enhancement Group	Colony Creek/McElroy Slough Water Quality Improvement Project - Phase 1	Northwest	Nonpoint Activity	\$212,388.00			
WQC-2015-SnCoPW-00183	Snohomish County - Pubic Works Department	Snohomish County Clean Water Loan and Grant Program	Northwest	On-Site Sewage System	\$499,330.00			
WQC-2015-SoaLak-00020	Soap Lake city of	Sewer Capital Improvements Plan	Eastern	Wastewater Facility	\$75,000.00			Yes
WQC-2015-SoSaSo-00043	Sound Salmon Solutions	Stillwater Natural Area Restoration	Northwest	Nonpoint Activity	\$120,730.00			
WQC-2015-SoSaSo-00045	Sound Salmon Solutions	Lower Mainstem Stillaguamish Restoration	Northwest	Nonpoint Activity	\$109,465.00			
WQC-2015-Spokane-00013	Spokane, city of	Design Projects for Combined Sewer Overflow (CSO) 12 and CSO 33-1	Eastern	Wastewater Facility	\$3,225,000.00			
WQC-2015-Spokane-00017	Spokane, city of	Northwest Spokane Wet Weather Mitigation	Eastern	Stormwater Facility	\$3,325,000.00		Yes	
WQC-2015-Spokane-00025	Spokane, city of	Combined Sewer Overflow (CSO) Basin 33-2 Control Facility	Eastern	Wastewater Facility	\$3,130,000.00		Yes	
WQC-2015-Spokane-00030	Spokane, city of	North River Combined Sewer Overflow (CSO) Projects	Eastern	Wastewater Facility	\$4,950,000.00			

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WQC-2015-Spokane-00032	Spokane, city of	RPWRF Tertiary Treatment	Eastern	Wastewater Facility	\$13,585,000.00			
WQC-2015-Spokane-00035	Spokane, city of	Combined Sewer Overflow (CSO) Basin 6 Control Facility	Eastern	Wastewater Facility	\$610,000.00			
WQC-2015-Spokane-00036	Spokane, city of	Riverside Park Water Reclamation Facility (RPWRF) Construction Projects	Eastern	Wastewater Facility	\$5,525,000.00	Yes		
WQC-2015-Spokane-00037	Spokane, city of	RPWRF Solids Recycle Pump Station	Eastern	Wastewater Facility	\$2,700,000.00			
WQC-2015-Spokane-00038	Spokane, city of	Riverside Park Water Reclamation Facility (RPWRF) Digester	Eastern	Wastewater Facility	\$17,655,000.00			
WQC-2015-Spokane-00039	Spokane, city of	Biochar Pilot Monitoring	Eastern	Nonpoint Activity	\$245,000.00			
WQC-2015-Sprague-00127	Sprague city of	General Sewer Plan	Eastern	Wastewater Facility	\$32,890.00			Yes
WQC-2015-TLC-00125	The Lands Council	Riparian Restoration in the Little Spokane River Watershed	Eastern	Nonpoint Activity	\$127,500.00			
WQC-2015-Toppen-00146	Toppenish city of - Public Works Department	Engineering Evaluation/General Sewer Plan	Central	Wastewater Facility	\$150,000.00			Yes
WQC-2015-TroUni-00128	Trout Unlimited	Methow River Riparian Restoration and Cleanup Project at the Red Shirt Mill	Central	Nonpoint Activity	\$250,000.00			
WQC-2015-VeraWP-00113	Vera Water and Power	Sun Acres LOSS Decommission/Spokane County System Connection	Eastern	Wastewater Facility	\$565,069.00		Yes	
WQC-2015-WashPW-00139	Washougal city of - Public Works Department	City of Washougal Wastewater Treatment Plant Expansion Project, 2014.	Southwest	Wastewater Facility	\$13,450,000.00			Yes
WQC-2015-WeRIPW-00061	West Richland city of - Public Works Department	Biosolids Processing Facility	Eastern	Wastewater Facility	\$915,000.00	Yes		
WQC-2015-YelmPW-00040	Yelm city of - Public Works Department	City of Yelm Stormwater Comprehensive Plan	Southwest	Stormwater Activity	\$100,000.00			
					<b>Total Funding Requested:</b>	<b>\$276,547,996.24</b>		